C-144

Permanent Pit

Closure Report



October 27, 2009

Mr. Brad A. Jones, Environmental Engineer New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

RE:

Two Closure Reports, XTO Energy, Inc. North Vacuum Unit, North Water Station and Vacuum Unit, South Water Station, Lea County, New Mexico

Dear Mr. Jones:

Please find enclosed two Closure Reports, one for each of the above referenced sites.

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

Sincerely,

LARSON & ASSOCIATES, INC.

William D. Green, PG No. 136

Texas Licensed Professional Geologist

wgreen@laenvironmental.com

Enclosure

Two Permanent Pit Closure Reports

CC

Mr. Larry Johnson, NM Oil Conservation Division, Hobbs

Mr. Patrick Lyons, NM State Land Office, Santa Fe

Mr. Guy Haykus, XTO Energy, Midland

Mr. Jerry Parker, XTO Energy, SE New Mexico

API# 30-025-29607

Permanent Pit Closure Report

XTO Energy, Inc.

North Vacuum Abo Unit, North Water Station
Unit F (SE/4, NW/4), Section 14, T17S, R34E
Lea County, NM

Project No. 8-0164

Prepared by:

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

October 22, 2009

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1.0 **Executive Summary**

The following report documents the closure of the permanent pit associated with the XTO Energy (XTO) North Vacuum Abo Unit North Water Station (Site) located in Lea County, New Mexico. The legal description of the Site is Unit F (SE/4, NW/4), Section 14, Township 17 South, Range 34 East (Figure 1). The geodetic location is N32° 50′ 08.7″, W103° 31′ 54.3″.

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

Operator Information 2.0

Primary Contact:

Mr. Jerry Parker

Address:

XTO Energy Inc., Permian Division - SE New Mexico

PO Box 700

Eunice, New Mexico 88231

Office:

575.394.2089

Cell:

575,441,1628

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° 50′ 08.7", W103° 31′ 54.3", and is located in rural Lea County about 13 miles west-southwest of Lovington, New Mexico. The approximately 1.6 acre Site consisted of five above-ground storage tanks, and a concrete-lined permanent pit with an approximate capacity of 3,300 barrels. The Facility is covered with crushed caliche rock and is flat to very gently sloping (Figures 2 and 3).

The Facility's siting criteria presented the following findings:

- Groundwater is about 110 feet below ground surface 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.
- A fresh water well is located within approximately 1000 horizontal feet of the Facility, however, no springs are located within 1000 horizontal feet of Facility.
- The Facility is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance.
- The Facility is not within 500 feet an area designated as wetlands.
- The Facility is not within an area overlying a subsurface mine.
- The Facility is not within an unstable area.
- The Facility is not within a 100-year flood plain.

3.2 Closure Plan and Approval

On December 23, 2008, Larson & Associates, Inc. (LAI), on behalf of XTO, submitted a pit 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 February 4, 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. Copies of the notification letters are provided in Appendix B.

3.4 Pit Closure Activities

On March 9, 2009, XTO removed ancillary equipment (i.e. fencing, netting, etc.) for salvage or scrap metal. A track-mounted hammer hoe was used to remove the concrete lining from the pit. Approximately 240 barrels of tank bottoms and 272 cubic yards of concrete and excavated soil were disposed at Controlled Recovery, Inc. (CRI, OCD Permit R9166).

On March 11 – 12, 2009, Larson & Associates, Inc. (LAI) personnel collected 5-part composite soil samples from the bottom (1BC) and sidewalls (2NC, 3WC, 4EC and 5SC) of the pit excavation following removal of the concrete. Xenco Laboratories analyzed the samples for benzene, toluene, ethylbenzene, xylenes (BTEX) by method 8021B, total petroleum hydrocarbons (TPH) by method 418.1 and chloride by method 300.1. Appendix C contains laboratory analytical reports for this project.

No benzene or BTEX was reported above OCD limits (0.2 milligrams per kilogram [mg/Kg] for benzene and 50 mg/Kg for BTEX). TPH was detected above the OCD reporting limit (100 mg/kg) in the following composite samples:

- north wall (2NC) 344 mg/Kg,
- west wall (3WC) 3,200 mg/Kg,
- east wall (4EC) 973 mg/Kg, and
- south wall (5SC) 4,500 mg/Kg.

Chloride exceeded the OCD limit in all samples except 2NC (Table 1). An initial C-141 was submitted to the OCD District 1, Hobbs office on March 17, 2009, and remediation activities were conducted. The OCD District 1 office issued remediation project number 1RP-09-3-2126.

3.5 Remedial Investigation

XTO delineated the extent of the TPH and excavated the impacted soils beginning March 17, 2009. Between March 19 and 23, 2009, LAI collected additional samples to confirm field delineation. On April 8, 2009, Scarborough Drilling, Inc. installed a soil boring near the bottom center of the pit excavation. Samples were collected using a jam tube sampler and analyzed for TPH (5, 10, 15 and 20 feet) using methods 418.1 and 8015. The laboratory analyzed all samples for chloride. No TPH was reported in the 418.1 samples above the method detection limits. The highest TPH (8015) concentration was 17.7 mg/Kg in the sample from 10 feet. Chloride decreased to 120 mg/Kg in the sample from 50 feet. Table 1 presents a summary of the laboratory analysis.

Based on the soil sample results, XTO requested approval from OCD District 1 to install a 20 mil thick high density polyethylene (HDPE) liner in the bottom of the pit and close the excavation according to the requirements of the closure plan approved by the OCD Santa Fe office. Approval was granted on March 18, 2009. An additional 16 cubic yards of soil was removed from the excavation and disposed at CRI. The excavation was closed prior to the final C-141 expiration date (May 18, 2009).

3.6 Pit Backfilling

Pit backfilling consisted of compacting six- to eight-inch lifts of clean soil purchased from the State Caliche pit, a nearby supply, and compacting each lift with heavy equipment. The uppermost 18-inches consisted of topsoil purchased from the surface lease owner, Mr. Tom Pearce. The topsoil was graded to level with the surrounding surface.

Since the former pit 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, and addendum photographs added at the request of OCD representative Mr. Brad Jones.

4.0 Conclusion and Recommendation

Based on the documented activities performed in conformance with the permanent pit closure plan, LAI requests approval of closure for this Site.

&District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources** Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and

provide a copy to the appropriate NMOCD District Office.

| Pit, Closed-Loop System, Below-Grade Tank, or | | | | |
|---|--|--|--|--|
| Proposed Alternative Method Permit or Closure Plan Application | | | | |
| Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below- | | | | |
| grade tank, or proposed alternative method | | | | |
| Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request | | | | |
| lease 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 nvironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances. | | | | |
| i. Operator: XTO ENERGY, INC. OGRID #:5380 | | | | |
| Address: PERMIAN DIVISION – SE NEW MEXICO, P.O. BOX 700, EUNICE, NM 88231 | | | | |
| Facility or well name: NORTH VACUUM ABO UNIT NORTH WATER STATION / ABO WELL NO. 297 (NEAREST WELL) | | | | |
| API Number: <u>30-025-29607</u> OCD Permit Number: | | | | |
| U/L or Qtr/Qtr F Section 14 Township 17S Range 34E County: LEA | | | | |
| Center of Proposed Design: Latitude 32° 50' 08.7" Longitude 103° 31' 54.3" 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 <u>6</u> inches □ LLDPE □ HDPE □ PVC ☑ Other <u>CONCRETE</u> | | | | |
| ☐ String-Reinforced | | | | |
| Liner Seams: Welded Factory Other Volume: 3,300 bbl Dimensions: L 62' x W 60' x D 5' | | | | |
| 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: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other | | | | |
| Liner Seams: Welded Factory Other | | | | |
| 4. | | | | |
| Below-grade tank: Subsection 1 of 19.15.17.11 NMAC | | | | |
| Volume:bbl Type of fluid: | | | | |
| Tank Construction material: | | | | |
| ☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off | | | | |
| ☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other | | | | |
| Liner type: Thicknessmil | | | | |
| 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, he | ospital, |
| 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 of | ffice for |
| consideration of approval. | Titlee Tol |
| Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. | |
| to. Siting Criteria (regarding permitting): 19.15.17.10 NMAC | |
| Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept | table source |
| material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approximately submitted to the santa Fe Environmental Bureau office for consideration of approximately submitted to the santa Fe Environmental Bureau office for consideration of approximately submitted to the santa Fe Environmental Bureau office for consideration of approximately submitted to the santa Fe Environmental Bureau office for consideration of approximately submitted to the santa Fe Environmental Bureau office for consideration of approximately submitted to the santa Fe Environmental Bureau office for consideration of approximately submitted to the santa Fe Environmental Bureau office for consideration of approximately submitted to the santa Fe Environmental Bureau office for consideration of approximately submitted to the santa Fe Environmental Bureau office for consideration of approximately submitted to the santa Fe Environmental Bureau office for consideration of approximately submitted to the santa Fe Environmental Bureau office for consideration of approximately submitted to the santa Fe Environmental Bureau office for consideration of the santa Fe Environmental Bureau office for consideration of the santa Fe Environmental Bureau office for consideration of the santa Fe Environmental Bureau office for consideration of the santa Fe Environmental Bureau office for consideration of the santa Fe Environmental Bureau office for consideration of the santa Fe Environmental Bureau office for consideration of the santa Fe Environmental Bureau office for consideration of the santa Fe Environmental Bureau office for consideration of the santa Fe Environmental Bureau office for consideration of the santa Fe Environmental Bureau office for consideration of the santa Fe Environmental Bureau office for consideration of the santa Fe Environmental Bureau | |
| Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying | |
| above-grade tanks associated with a closed-loop system. | □ Vaa □ Na |
| 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). | ☐ Yes ☐ No |
| - Topographic map; Visual inspection (certification) of the proposed site | |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. | ☐ Yes ☐ No ☐ NA |
| (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | ∐ NA |
| Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. | ☐ Yes ☐ No |
| (Applies to permanent pits) | □ NA |
| - 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 search; Visual inspection (certification) of the proposed site | |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance | ☐ Yes ☐ No |
| adopted pursuant to NMSA 1978, Section 3-27-3, as amended. | |
| - Written confirmation or verification from the municipality; Written approval obtained from the municipality | |
| 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. | ☐ Yes ☐ No |
| - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division | |
| Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological | ☐ Yes ☐ No |
| Society; Topographic map | |
| 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 19.15.17.11 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 Previously Approved Design (attach copy of design) API Number: or Permit Number: | | | | |
|---|--|--|--|--|
| | | | | |
| 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) | | | | |
| 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 Monitoring and Inspection Plan Coloure 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 | | | | |

| 16. Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.1 Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if | |
|--|-----------------------|
| facilities are required. Diamond Facility Names | |
| 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 ser Yes (If yes, please provide the information below) No | vice and operations? |
| 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 NMA 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 | c |
| 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 sou provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate dist considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Just demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance. | rict 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 ☐ 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 |
| On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure points of the surface of the following items must be attached to the closure points of the surface of the following items must be attached to the closure points of the surface of th | .15.17.11 NMAC |

| 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): Title: | | |
| Signature: Date: | | |
| e-mail address: Telephone: | | |
| OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) | | |
| OCD Representative Signature: Approval Date: | | |
| Title: OCD Permit Number: | | |
| 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: March 27, 2009 | | |
| 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 indentify 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 Rec-vegetation Application Rates and Seeding Technique | | |
| M. 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 | | |
| 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): Superintendent Title: Superintendent | | |
| Signature: Date: 10/22/09 | | |
| e-mail address: William Haykus@xtoenergy.com Telephone: (432) 682-8873 | | |

TAPLES

Table 1 Soil Analytical Data Summary XTO Energy, Inc.

North Vacuum Abo Lease - North Water Station Unit F (SE/4, NW/4) Sec 14, T17S, R34E

Lea County, New Mexico

| Sample ID | Date | Status | Depth (Ft) | Benzene | Toluene | Ethyl | Total | Total BTEX | TPH | TPH | Chlorides |
|----------------|-----------|-----------|-------------|-----------|----------|---------|---------|------------|-------------|-------|------------|
| Janipie ID | Date | Status | Deptii (Ft) | Defizerie | Toluelle | benzene | Xylenes | TOTAL BILK | C6-C35 | 418.1 | Cilioriaes |
| Reporting Leve | d: | | | 0.2 | | | | 50 | | 100 | 250 |
| 1BC | 3/12/2009 | In-Situ | 0 (7) | <0.0011 | 0.0034 | 0.0111 | 0.0163 | 0.0308 | | 1,470 | 947 |
| | 3/19/2009 | In-Situ | 1 (8) | <0.0010 | <0.0020 | <0.0010 | <0.0010 | <0.0010 | | 708 | 1,150 |
| | 3/23/2009 | In-Situ | 5 (13) | | | | | | | | 943 |
| | 3/23/2009 | In-Situ | 10 (18) | | | | | | | | 1,390 |
| | 3/23/2009 | In-Situ | 15 (23) | | | | | | | | 446 |
| | 4/2/2009 | In-Situ | 20 (28) | | | | | | | | 772 |
| 2NC | 3/11/2009 | In-Situ | 0-1 | <0.0011 | <0.0022 | <0.0011 | <0.0011 | <0.0011 | | 344 | 70.1 |
| 3WC | 3/12/2009 | Excavated | 0-1 | 0.0020 | 0.0090 | 0.0217 | 0.0329 | 0.0656 | •• | 3,200 | 349 |
| | 3/19/2009 | In-Situ | 2 - 5 | <0.0010 | <0.0020 | <0.0010 | 0.0036 | 0.0036 | | 4,320 | 419 |
| 4EC | 3/11/2009 | In-Situ | 0 - 1 | <0.0011 | <0.0021 | <0.0011 | 0.0024 | 0.0024 | | 973 | 337 |
| 5SC | 3/12/2009 | Excavated | 0 - 1 | <0.0011 | <0.0022 | 0.0039 | 0.0161 | 0.02 | | 4,500 | 445 |
| | 3/19/2009 | In-Situ | 2 - 5 | <0.0010 | <0.0020 | 0.0017 | 0.0029 | 0.0046 | | 3,200 | 305 |
| Release Inves | tigation: | | | | | | | | | | |
| BH-1 | 4/8/2009 | | 5 (13) | | | | | | 16.9 | <11.1 | 2,370 |
| | 4/8/2009 | | 10 (18) | | | | | [[| 17.7 | <10.7 | 111 |
| | 4/8/2009 | | 15 (23) | | | | | | 16.5 | <10.4 | 78 |
| | 4/8/2009 | | 20 (28) | | | | | | <16.0 | <10.7 | 428 |
| | 4/8/2009 | | 25 (33) | | | | | | | | 2,190 |
| | 4/8/2009 | | 30 (38) | | | | | | | | 1,720 |
| | 4/8/2009 | | 40 (48) | | | | | | | | 330 |
| | 4/8/2009 | | 50 (58) | | | | | | | | 120 |
| Replacement | Soil: | _ | | | | | | | | | |
| SS-1 | 5/4/2009 | | | | | | | | | | 48.8 |
| SS-2 | 5/4/2009 | | | | | | | | | | 11.4 |

Notes

RRAL - Recommended Remediation Action Level

BTEX analyzed via EPA SW Method 8021B.

Total Petroleum Hydrocarbons analyzed via EPA Method 418.1.

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

Chlorides analyzed via EPA Method 300.

Bold indicates the analyte was detected.

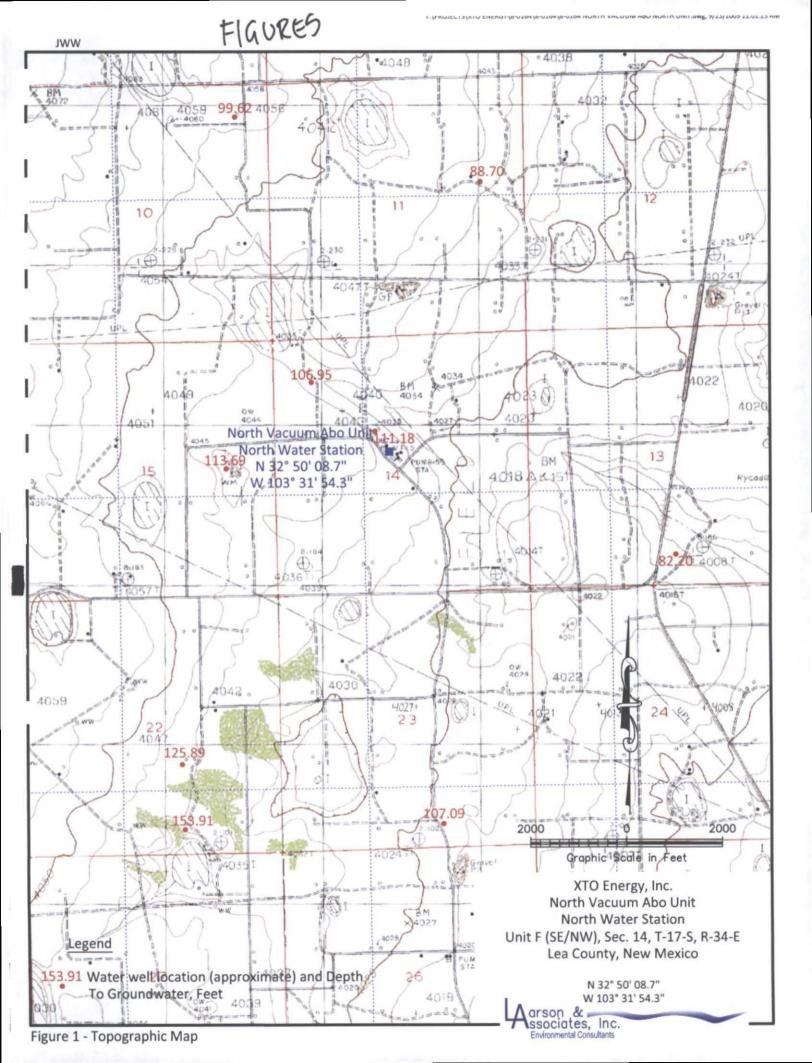




Figure 2 - Aerial

Figure 3 - Site Drawing

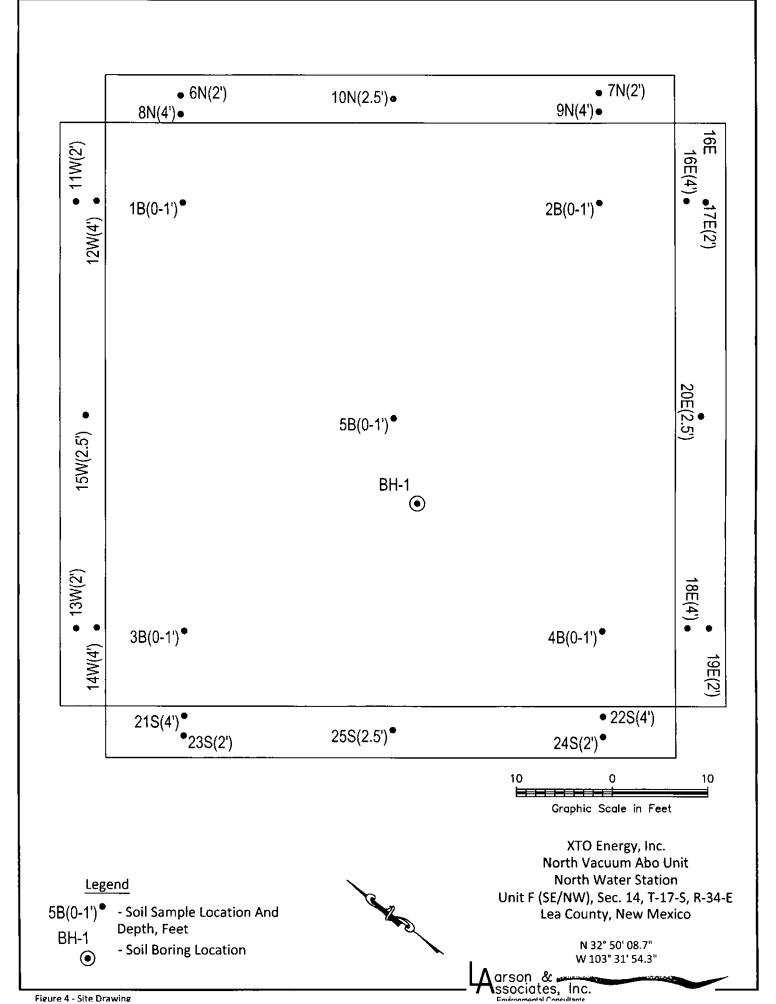


Figure 4 - Site Drawing

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

100-A-

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 lease 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 avironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances. | | | | |
| i. Operator: XTO ENERGY, INC. OGRID #:5380 | | | | |
| Address: PERMIAN DIVISION - SE NEW MEXICO, P.O. BOX 700, EUNICE, NM 88231 | | | | |
| Facility or well name: NORTH VACUUM ABO UNIT NORTH WATER STATION / ABO WELL NO, 297 (NEAREST WELL) | | | | |
| API Number: <u>30-025-29607</u> OCD Permit Number: | | | | |
| U/L or Qtr/Qtr F Section 14 Township 17S Range 34E County: LEA | | | | |
| Center of Proposed Design: Latitude 32° 50' 08.7" Longitude 103° 31' 54.3" NAD: □1927 ▼ 1983 | | | | |
| Surface Owner: Federal X State Private Tribal Trust or Indian Allotment | | | | |
| 2. XI Pit: Subsection F or G of 19.15.17.11 NMAC | | | | |
| Temporary: Drilling Workover | | | | |
| X Permanent Emergency Cavitation P&A | | | | |
| X Lined Unlined Liner type: Thickness 6 inches LLDPE HDPE PVC X Other CONCRETE | | | | |
| String-Reinforced | | | | |
| Liner Seams: Welded Factory Other Volume: 3,300 bbl Dimensions: L 62' x W 60' x D 5' | | | | |
| 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 | | | | |
| iner Seams: Welded Factory Other | | | | |
| Relow-grade tank: Subsection Lof 19 15 17 11 NMAC | | | | |

☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other _

Liner type: Thickness _____ mil _ HDPE _ PVC _ Other _

Tank Construction material:

__bbl Type of fluid: _____

☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off

| , | S | |
|-----|--|------------------------------|
| ٠ | Alternative Method: | |
| | Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration | of approval. |
| J | 6. | - |
| | Fencing: Subsection D of 19.15.17.11 NMAC (Applies, to permanent pits, temporary pits, and below-grade tanks) | |
| i | 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) | ospital, |
| • | Four foot height, four strands of barbed wire evenly spaced between one and four feet | |
| | Alternate. Please specify . | |
| Į | <u></u> | |
| | 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) | |
| | £. | |
| Į | Signs: Subsection C of 19.15.17.11 NMAC | |
| | 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers | |
| ı | Signed in compliance with 19.15.3.103 NMAC | |
| 7 | 9. | |
| | Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. | |
| ļ | 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 consideration of approval. | office for |
| IJ | Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. | |
| - 1 | 16. | <u></u> |
| | 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. | table source |
| 1 | material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appro | priate district |
| | 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 dryi | <i>provat.</i> ng pads or |
| [] | above-grade tanks associated with a closed-loop system. | |
| - 1 | 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 | ☐ Yes ☐ No |
| | lake (measured from the ordinary high-water mark). | |
| | - Topographic map; Visual inspection (certification) of the proposed site | El V., El N. |
| | 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) | ☐ Yes ☐ No ☐ NA |
| 1 | - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | |
| | Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. | Yes No |
| } | (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | |
| | Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock | ☐ Yes ☐ No |
| ì | watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. | |
| 1 | - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | |
| | 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. | Yes No |
| ļ | - Written confirmation or verification from the municipality; Written approval obtained from the municipality | |
| I | Within 500 feet of a wetland. | Yes No |
| 1 | - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | |
| j | Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division | ☐ Yes ☐ No |
| İ | Within an unstable area. | Van 11- |
| 1 | - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological | Yes No |
| ı | Society; Topographic map | |
| Į | Within a 100-year floodplain. Proceedings of Communication Division Page 2 of 6 | |
| | | |

| - 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 19.15.17.11 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: | · | | | |
| Closed-Joop 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 do attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.10 NM Design Rlan - 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 1 and 19.15.17.13 NMAC | 15.17.9 IAC | | | |
| Previously Approved Design (attach copy of design) API Number: | all a minimum of a | | | |
| Previously Approved Operating and Maintenance Plan API Number: (Applies only to closed-loop system) | stem that use | | | |
| above ground steel tanks or haul-off bins and propose to implement waste removal for closure) | | | | |
| 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 deattached. 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 H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control 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 | cuments are | | | |
| 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 Syllar 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 co | | | | |

| | 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. | | | | |
|---|---|----------------------|--|--|--|
| İ | 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) | | | | |
| ľ | 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 | | | | |
| L | 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 m facilities are required. | | | | |
| | Disposal Facility Name: Disposal Facility Permit Number: | | | | |
| | Disposal Facility Name: Disposal Facility Permit Number: | | | | |
| 1 | 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. Yes (If yes, please provide the information below) \(\subseteq \) No | ce and operations? | | | |
| | 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 provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate districtions 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 X 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 X No ☐ NA | | | |
| 1 | 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 | X 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 | | | |
| 1 | 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 | X 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 X No | | | |
| ĺ | 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 | | | |
| 1 | Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map | ☐ Yes ☒ No | | | |
| 1 | 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 pl | an. 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 G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC | | | | |
|---|--|--|--|--|
| 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): Guy Haykus | Title: Superintendent | | | |
| , | | | | |
| Signature: White House | Date:December 23, 2008 | | | |
| e-mail address: William Haykus@xtoenergy.com | Telephone: (432) 682-8873 | | | |
| OCD Approval: Permit Application (including closure plan) Closure Plan | (only) OCD Conditions (see attachment) | | | |
| OCD Representative Signature: | Approval Date: 2/4/19 | | | |
| Title: _ Frommetal Fronce 0 | CD Permit Number: | | | |
| Instructions: Operators are required to obtain an approved closure plan prior to it The closure report is required to be submitted to the division within 60 days of the section of the form until an approved closure plan has been obtained and the closu 12. Closure Method: | completion of the closure activities. Please do not complete this | | | |
| | e Closure Method | | | |
| Closure Report Regarding Waste Removal Closure For Closed-loop Systems The Instructions: Please indentify the facility or facilities for where the liquids, drilling two facilities were utilized. | nat Utilize Above Ground Steel Tanks or Haul-off Bins Only: g fluids and drill cuttings were disposed. Use attachment if more than | | | |
| | Disposal Facility Permit Number: | | | |
| | Disposal Facility Permit Number: | | | |
| Were the closed-loop system operations and associated activities performed on or in Yes (If yes, please demonstrate compliance to the items below) \(\subseteq \text{No} \) | • | | | |
| Required for impacted areas which will not be used for future service and operations Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation | 5 : | | | |
| Re-vegetation Application Rates and Seeding Technique | | | | |
| Closure Report Attachment Checklist: Instructions: Each of the following items mark in the box, that the documents are attached Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique | s must be attached to the closure report. Please indicate, by a check . | | | |
| Site Reclamation (Photo Documentation) On-site Closure Location: Latitude Longitude | NAD: □1927 □ 1983 | | | |
| Loughbar | | | | |

Page 5 of 6

| ' | Operator Closure Certification: I hereby certify that the information and attachments belief. I also certify that the closure complies with all | submitted with this closure report is true, accurate and complete to the best of my knowledge and applicable closure requirements and conditions specified in the approved closure plan. |
|----------|--|--|
| 1 | Name (Print): | Title: |
| | Signature: | Date: |
| 1 | e-mail address: | Telephone: |

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February 18, 2009

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

Re: Notice of Pit Closure XTO Energy, Inc.

North Vacuum Abo Lease - North Water Station

Unit F (SE/4, NW/4), Section 14 Township 17 South, Range 34 East

Lea County, New Mexico

Dear Mr. Hill,

Pursuant to paragraph (3) of Subsection J of 19.15.17.13 NMAC, notice is hereby given to the New Mexico Oil Conservation Division (OCD) by XTO Energy, Inc. (XTO) of its intent to close a permanent pit at the North Vacuum Abo Lease, North Water Station (Facility) beginning on March 9, 2009. The Facility is located in Unit F (SE/4, NW/4), Section 14, Township 17 South, Range 34 East in Lea County, New Mexico. The latitude and longitude is 32° 50' 08.7" north and 103° 31' 54.3" west, respectively. The nearest well is the North Vacuum Abo Lease Well #297 with API #30-025-29607. The closure will be in accordance with a plan meeting the requirements of Paragraphs (1) through (7) of Subsection G of 19.15.17.11 NMAC that was approved by the OCD Environmental Bureau in Santa Fe, New Mexico, on February 4, 2009. Please contact myself at (432) 682-8873 or Mark Larson with Larson & Associates, Inc. at (432) 687-0901, if you have questions.

Sincerely,

XTO Energy, Inc.

Guy Haykus

Production Superintendent

Cc: Mark Larson/Larson & Associates, Inc.

DeeAnn Kemp/XTO Energy Inc/Regulatory and Production Mgr. - Midland

Kristy Ward/XTO Energy Inc/Regulatory Analyst - Midland



March 2, 2009

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

Re: Notice of Pit Closure

XTO Energy, Inc.

North Vacuum Abo Lease - North Water Station

Unit F (SE/4, NW/4), Section 14
Township 17 South, Range 34 East
Lee County, New Mariae

Lea County, New Mexico

Dear Commissioner Lyons,

Pursuant to paragraph (1) of Subsection J of 19.15.17.13 NMAC, notice is hereby given to the New Mexico State Land Office (SLO), as surface owner of record, by XTO Energy, Inc. (XTO) of its intent to close a permanent pit located at the North Vacuum Abo Lease – North Water Station (Facility) beginning March 9, 2009. The Facility is located in Unit F (SE/4, NW/4), Section 14, Township 17 South, Range 34 East in Lea County, New Mexico. The latitude and longitude is 32° 50' 08.7" north and 103° 31' 54.3" west, respectively. The closure will be performed according to a plan meeting the requirements of Paragraphs (1) through (7) of Subsection G of 19.15.17.11 NMAC that was approved by the New Mexico Oil Conservation Division (OCD) on February 4, 2009. The closure plan may be viewed at the OCD District 1 office located in Hobbs, New Mexico or with the OCD Environmental Bureau in Santa Fe, New Mexico. Piease contact myself at (432) 682-8873 or Mark Larson with Larson & Associates, Inc. at (432) 687-0901, if you have questions.

Sincerely,

XTO Energy, Inc.

Guy Haykus

Production Superintendent

Cc: Myra Meyers/SLO Hobbs District

Mark Larson/Larson & Associates, Inc.

DeeAnn Kemp/XTO Energy Inc/Regulatory and Production Mgr. - Midland

Kristy Ward/XTO Energy Inc/Regulatory Analyst - Midland

| Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. | A. Signature | |
|--|--|---|
| | x | ☐ Agent ☐ Addresses |
| Print your name and address on the reverse so that we can return the card to you. | B. Received by (Printed Name) | C. Date of Delivery |
| Attach this card to the back of the mailpiece, | D. Habattoo by () mina () mina | |
| or on the front if space permits. | D. is delivery address different from ite | m 17 🖸 Yee |
| 1. Article Addressed to: | if YES, enter delivery address belo | w: 🗆 No |
| Mr. Lam Hell - | | |
| Die Amerikan Division | | |
| Mr. Larry Hell. DIL Conservation Division 1625 N. French Dr. | | |
| 1625 N. 11000 DI | 3. Service-Type | |
| Hobbs, NM 88240 | Certified Mail Express M Registered Return Ret | all salpt for Merchandis |
| | ☐ Insured Mail ☐ C.O.D. | |
| | 4. Restricted Delivery? (Extra Fee) | ☐ Yes |
| 2. Article Number | | - |
| (Trainsfer from 7007 0220 0002 5 | 5085 4557 | |
| PS Form 3811, February 2004 Domestic Re | turn Receipt | 102595-02-M-1 |
| • | | |
| | | |
| | | |
| SENDER: COMPLETE THIS SECTION | COMPLETE THIS SECTION ON DE | EIVERY |
| Complete Items 1, 2, and 3. Also complete | A. Signature | research and |
| item 4 if Restricted Delivery is desired. | X | ☐ Agent |
| Print your name and address on the reverse so that we can return the card to you. | | C. Date of Delive |
| Attach this card to the back of the malipiece, or on the front if space permits. | B. Received by (Printed Name) | C. Date of Delive |
| Article Addressed to: | D. Is delivery address different from its | |
| • 1 | if YES, enter delivery address bel | ow: 🗆 No |
| Mr. Patrick Lyms, Commissioner | | |
| New Mexico State hand office | | |
| 310 Old Santa Fe Trail | | ,,, |
| Santa Fc, NM 87501 | 3. Service Type | |
| Santa rej | ☐ Registered ☐ Return Re | iail ceipt for Merchandi |
| | ☐ Insured Mail ☐ C.O.D. | |
| | 4. Restricted Delivery? (Extra Fee) | ☐ Yes |
| | | |
| 2. Article Number | | |
| (Transfer from sen 7007 0220 0002 | | |
| | 5082 4214 | |
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| (Transfer from sen 7007 0220 0002 PS Form 3811, February 2004 Domestic Ret SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete | 5082 4214 ium Receipt | 102595-02-M-1 |
| (Transfer from sen 7007 0220 0002 PS Form 3811, February 2004 Domestic Ret SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. | 5082 4214 turn Receipt COMPLETE THIS SECTION ON D. A. Signature | 102595-02-M-1 ELIVERY □ Agent |
| Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to your | 5082 4214 iurn Receipt COMPLETE THIS SECTION ON D. A. Signature | 102595-02-M-1 ELIVERY Agent Address |
| Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailplace. | 5082 4214 turn Receipt COMPLETE THIS SECTION ON D. A. Signature | 102595-02-M-1 |
| Complete items 1, 2, and 3. Also complete item 4 if Pestricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailplece, or on the front if space permits. | 5082 4214 COMPLETE THIS SECTION ON D A Signature X B. Received by (Printed Name) | 102595-02-M-1 ELIVERY □ Agent □ Addres C. Date of Dalit |
| Complete items 1, 2, and 3. Also complete item 4 if Pestricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailplece, or on the front if space permits. | 5082 4214 iurn Receipt COMPLETE THIS SECTION ON D. A. Signature | □ Agent □ Addres C. Date of Dalitem 12 □ Yes |
| Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailplece, or on the front if space permits. | 5082 4214 COMPLETE THIS SECTION ON D A Signature X B. Received by (Printed Name) D. Is delivery address different from | □ Agent □ Addres C. Date of Dalitem 12 □ Yes |
| Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailplece, or on the front if space permits. | 5082 4214 COMPLETE THIS SECTION ON D A Signature X B. Received by (Printed Name) D. Is delivery address different from | □ Agent □ Addres C. Date of Dalitem 12 □ Yes |
| Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailplece, or on the front if space permits. | 5082 4214 COMPLETE THIS SECTION ON D A Signature X B. Received by (Printed Name) D. Is delivery address different from | I Agent D Addres C. Date of Deliver |
| Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailplece, or on the front if space permits. | COMPLETE THIS SECTION ON D A Signature X B. Received by (Printed Name) O. Is delivery address different from it YES, enter delivery address be | □ Agent □ Addres C. Date of Dalis tem 12 □ Yes |
| Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailplece, or on the front if space permits. | 5082 4214 COMPLETE THIS SECTION ON D A Signature X B. Received by (Printed Name) D. Is delivery address different from | I Agent Agent Addres C. Date of Dalit tem 12 Yes low: No |
| Complete items 1, 2, and 3. Also complete item 4 if Pestricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailplece, or on the front if space permits. | COMPLETE THIS SECTION ON D A Signature X B. Received by (Printed Name) O. Is delivery address different from If YES, enter delivery address be | I Agent Agent Addres C. Date of Dalit tem 12 Yes low: No |

Analytical Report 327344

for

Larson & Associates

Project Manager: Michelle Green

Midland/Odessa Standard List of Methods 8-0164

16-MAR-09





12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Miramar, FL E86349

Norcross(Atlanta), GA E87429

South Carolina certification numbers: Norcross(Atlanta), GA 98015

North Carolina certification numbers: Norcross(Atlanta), GA 483

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







Project Manager: Michelle Green Larson & Associates P.O. Box 50685

Midland, TX 79710

Reference: XENCO Report No: 327344

Midland/Odessa Standard List of Methods

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 327344. 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. 327344 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 327344



Larson & Associates, Midland, TX

Midland/Odessa Standard List of Methods

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|-----------------|--------------|---------------|
| 1 BC | S | Mar-12-09 10:40 | | 327344-001 |
| 2 NC | S | Mar-11-09 16:40 | | 327344-002 |
| 3 WC | S | Mar-12-09 11:00 | | 327344-003 |
| 4 EC | S | Mar-11-09 17:12 | | 327344-004 |
| 5 SC | S | Mar-12-09 11:30 | | 327344-005 |

Project Id: 8-0164

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t o1 ...__od_

Contact: Michelle Green

Date Received in Lab: Thu Mar-12-09 03:15 pm

Project Location:

Report Date: 16-MAR-09

Project Manager: Brent Barron, II

| | | | | | Troject Manager. | | |
|-----------------------------------|------------|-----------------|-----------------|-----------------|------------------|-----------------|--|
| | Lab Id: | 327344-001 | 327344-002 | 327344-003 | 327344-004 | 327344-005 | |
| Analysis Paguantal | Field Id: | 1 BC | 2 NC | 3 WC | 4 EC | 5 SC | |
| Analysis Requested | Depth: | | | | | | |
| | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | |
| | Sampled: | Mar-12-09 10:40 | Mar-11-09 16:40 | Mar-12-09 11:00 | Mar-11-09 17:12 | Mar-12-09 11:30 | |
| Anions by EPA 300 | Extracted: | | | | | | |
| • | Analyzed: | Mar-13-09 09:45 | Mar-13-09 09:45 | Mar-13-09 09:45 | Mar-13-09 09:45 | Mar-13-09 09:45 | |
| | Units/RL: | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | |
| Chloride | | 947 21.5 | 70.1 5.46 | 349 10.9 | 337 21.5 | 445 11.0 | |
| BTEX by EPA 8021B | Extracted: | Mar-14-09 09:00 | Mar-14-09 09:00 | Mar-14-09 09:00 | Mar-14-09 09:00 | Mar-14-09 09:00 | |
| | Analyzed: | Mar-14-09 12:48 | Mar-14-09 13:09 | Mar-14-09 13:29 | Mar-14-09 13:50 | Mar-14-09 14:51 | |
| | Units/RL: | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | |
| Benzene | | ND 0.0011 | ND 0.0011 | 0.0020 0.0011 | ND 0.0011 | ND 0.0011 | |
| Toluene | | 0.0034 0.0022 | ND 0.0022 | 0.0090 0.0022 | ND 0.0022 | ND 0.0022 | |
| Ethylbenzene | | 0.0111 0.0011 | ND 0.0011 | 0.0217 0.0011 | ND 0.0011 | 0.0039 0.0011 | |
| m,p-Xylenes | | 0.0109 0.0022 | ND 0.0022 | 0.0228 0.0022 | ND 0.0022 | 0.0120 0.0022 | |
| o-Xylene | | 0.0054 0.0011 | ND 0.0011 | 0.0101 0.0011 | 0.0024 0.0011 | 0.0041 0.0011 | |
| Total Xylenes | | 0.0163 0.0011 | ND 0.0011 | 0.0329 0.0011 | 0.0024 0.0011 | 0.0161 0.0011 | |
| Total BTEX | | 0.0308 0.0011 | ND 0.0011 | 0.0656 0.0011 | 0.0024 0.0011 | 0.02 0.0011 | |
| Percent Moisture | Extracted: | | | | | | |
| | Analyzed: | Mar-13-09 17:00 | Mar-13-09 17:00 | Mar-13-09 17:00 | Mar-13-09 17:00 | Mar-13-09 17:00 | |
| | Units/RL: | % RL | % RL | % RL | % RL | % RL | |
| Percent Moisture | | 6.96 1.00 | 8.50 1.00 | 8.54 1.00 | 6.96 1.00 | 9.03 1.00 | |
| TPH by EPA 418.1 | Extracted: | | } | | | | |
| • | Analyzed: | Mar-13-09 10:18 | Mar-13-09 10:18 | Mar-13-09 10:18 | Mar-13-09 10:18 | Mar-13-09 10:18 | |
| | Units/RL: | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | |
| TPH, Total Petroleum Hydrocarbons | | 1470 10.7 | 344 10.9 | 3200 10.9 | 973 10.7 | 4500 11.0 | |

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.

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Brent Barron

Odessa Laboratory Director



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.
- * Outside XENCO's scope of NELAC Accreditation.

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| | 1 Hone | iun |
|---|----------------|----------------|
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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 |
| 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 |
| | | |



Form 2 - Surrogate Recoveries

Project Name: Midland/Odessa Standard List of Methods

Work Orders: 327344,

Project ID: 8-0164

Lab Batch #: 752563

Sample: 526389-1-BKS/BKS

Batch:

Matrix: Solid

| Units: mg/kg Date Analyzed: 03/14/09 09:24 | | SURROGATE RECOVERY STUDY | | | | | |
|--|----------|--------------------------|-----------------------|----------------|-------------------------|-------|--|
| BTEX by EPA 8021B | | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | |
| | Analytes | [1-1] | | [D] | , , , , , | | |
| 1,4-Difluorobenzene | | 0.0305 | 0.0300 | 102 | 80-120 | | |
| 4-Bromofluorobenzene | | 0.0313 | 0.0300 | 104 | 80-120 | | |

Lab Batch #: 752563

Sample: 526389-1-BSD / BSD

Batch:

Matrix: Solid

| Units: mg/kg | Date Analyzed: 03/14/09 09:44 | SU | RROGATE RI | ECOVERY S | STUDY | |
|----------------------|-------------------------------|------------------------|-----------------------|----------------|-------------------------|-------|
| BTEX by EPA 8021B | | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | Analytes | | ĺ | [D] | | |
| 1,4-Difluorobenzene | | 0.0300 | 0.0300 | 100 | 80-120 | |
| 4-Bromofluorobenzene | | 0.0307 | 0.0300 | 102 | 80-120 | |

Lab Batch #: 752563

Sample: 526389-1-BLK / BLK

Batch:

Matrix: Solid

| Units: mg/kg | Date Analyzed: 03/14/09 10:25 | SURROGATE RECOVERY STUDY | | | | | |
|----------------------|-------------------------------|--------------------------|-----------------------|----------------|-------------------------|---------------------------------------|--|
| BTE | X by EPA 8021B | Amount Found A | True Amount [B] | Recovery %R | Control Limits %R | Flags | |
| | Analytes | | | [D] | | | |
| 1,4-Difluorobenzene | | 0.0256 | 0.0300 | 85 | 80-120 | | |
| 4-Bromofluorobenzene | | 0.0299 | 0.0300 | 100 | 80-120 | · · · · · · · · · · · · · · · · · · · | |

Lab Batch #: 752563

Sample: 327344-001 / SMP

Batch:

Matrix: Soil

| Units: mg/kg Date Analyzed: 03/14/09 12:48 | S SU | SURROGATE RECOVERY STUDY | | | | | |
|--|------------------------|--------------------------|----------------|-------------------------|-------|--|--|
| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | |
| Analytes | | | [D] | | | | |
| 1,4-Difluorobenzene | 0.0247 | 0.0300 | 82 | 80-120 | | | |
| 4-Bromofluorobenzene | 0,0317 | 0.0300 | 106 | 80-120 | | | |

Lab Batch #: 752563

Sample: 327344-002 / SMP

Batch: 1

Matrix: Soil

| Units: mg/kg | Date Analyzed: 03/14/09 13:09 | SU | RROGATE RI | ECOVERY S | STUDY | |
|----------------------|-------------------------------|------------------------|-----------------------|----------------|-------------------------|-------|
| BTEX by EPA 8021B | | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | Analytes | | , | [D] | | |
| 1,4-Difluorobenzene | | 0.0254 | 0.0300 | 85 | 80-120 | |
| 4-Bromofluorobenzene | | 0.0320 | 0.0300 | 107 | 80-120 | |

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Form 2 - Surrogate Recoveries

Project Name: Midland/Odessa Standard List of Methods

Work Orders: 327344,

Project ID: 8-0164

Lab Batch #: 752563

Sample: 327344-003 / SMP

Batch:

Matrix: Soil

| Units: mg/kg | SURROGATE RECOVERY STUDY | | | | |
|----------------------|--------------------------|-----------------------|----------------|-------------------------|-------|
| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| Analytes | [, | (-) | (D) | ,,,,, | |
| 1,4-Difluorobenzene | 0.0230 | 0.0300 | 77 | 80-120 | ** |
| 4-Bromofluorobenzene | 0.0326 | 0.0300 | 109 | 80-120 | |

Lab Batch #: 752563

Sample: 327344-004 / SMP

Batch: 1

Matrix: Soil

| Units: mg/kg | Date Analyzed: 03/14/09 13:50 | SU | RROGATE RI | ECOVERY S | STUDY | |
|----------------------|---------------------------------------|------------------------|-----------------------|----------------|-------------------------|-------|
| ВТЕ | X by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | Analytes | ,, | 121 | [D] | | i |
| 1,4-Difluorobenzene | | 0.0255 | 0.0300 | 85 | 80-120 | |
| 4-Bromofluorobenzene | · · · · · · · · · · · · · · · · · · · | 0.0317 | 0.0300 | 106 | 80-120 | |

Lab Batch #: 752563

Sample: 327344-005 / SMP

Batch: 1

Matrix: Soil

| Units: mg/kg Date Analyzed: 03/14/09 14:51 | SU | RROGATE RI | ROGATE RECOVERY STUDY | | | | | | | | |
|--|------------------------|-----------------------|-----------------------|-------------------------|-------|--|--|--|--|--|--|
| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | | | | | |
| Analytes | | | [D] | | | | | | | | |
| 1,4-Difluorobenzene | 0.0228 | 0.0300 | 76 | 80-120 | ** | | | | | | |
| 4-Bromofluorobenzene | 0.0301 | 0.0300 | 100 | 80-120 | | | | | | | |

Lab Batch #: 752563

Sample: 327400-001 S / MS

Batch: 1

Matrix: Soil

| Units: mg/kg Date Analyzed: 03/14/09 15:12 SURROGATE RECOVERY STUDY | | | | | | | |
|---|------------------------|-----------------------|----------------|-------------------------|-------|--|--|
| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | |
| Analytes | (1-1) | [5] | [D] | /#1 | | | |
| 1,4-Difluorobenzene | 0.0298 | 0.0300 | 99 | 80-120 | | | |
| 4-Bromofluorobenzene | 0.0328 | 0.0300 | 109 | 80-120 | | | |

Lab Batch #: 752563

Sample: 327400-001 SD / MSD

Batch: 1

Matrix: Soil

| Units: mg/kg Date Analyzed: 03/14/09 15:32 SURROGATE RECOVERY | | | | | | |
|---|--------------------------|------------------------|----------------------|-----------------------|-------------------------|-------|
| вте | X by EPA 8021B Analytes | Amount Found [A] | True Amount B | Recovery %R [D] | Control Limits %R | Flags |
| 1.4-Difluorobenzene | | 0.0202 | 0.0300 | 101 | 90.130 | |
| | | 0.0303 | 0.0300 | 101 | 80-120 | |
| 4-Bromofluorobenzene | | 0.0336 | 0.0300 | 112 | 80-120 | |

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Blank Spike Recovery



Project Name: Midland/Odessa Standard List of Methods

Work Order #: 327344

Project ID:

8-0164

Lab Batch #: 752554

Sample: 752554-1-BKS

Matrix: Solid

Date Analyzed: 03/13/2009

Analyst: LATCOR

Reporting Units: mg/kg

Date Prepared: 03/13/2009 Ratch #

1 BLANK/BLANK SPIKE RECOVERY STUDY

| Reporting Cities. Ing/kg Datcil #: 1 DLAIN / DLA | | | DLAINK SEI | NE KEC | OVERT | ויטטוי |
|--|-----------------|----------------|----------------|----------------|-------------------|--------|
| Anions by EPA 300 | Blank Result | Spike Added | Blank Spike | Blank Spike | Control Limits | Flags |
| Analytes | [A] | [B] | Result C | %R D | %R | |
| Chloride | ND | 10.0 | 10.4 | 104 | 90-110 | |



BS/BSD Recoveries



Project Name: Midland/Odessa Standard List of Methods

Work Order #: 327344

Analyst: ASA

Date Prepared: 03/14/2009

Project ID: 8-0164

Date Analyzed: 03/14/2009

Lab Batch ID: 752563

Sample: 526389-1-BKS

Batch #: 1

Matrix: Solid

| Units: | mg/kg | |
|--------|-------|--|
| | | |

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

| BTEX by EPA 8021B | Blank Sample Result | 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] | ĺDĺ | [E] | Result F | [G] | 70 |) /SK | /•••• | |
| Benzene | ND | 0.1000 | 0.0957 | 96 | 0.1 | 0.0913 | 91 | 5 | 70-130 | 35 | |
| Toluene | ND | 0.1000 | 0.0970 | 97 | 0.1 | 0.0926 | 93 | 5 | 70-130 | 35 | |
| Ethylbenzene | ND | 0.1000 | 0.0961 | 96 | 0.1 | 0.0921 | 92 | 4 | 71-129 | 35 | |
| m,p-Xylenes | ND | 0.2000 | 0.2094 | 105 | 0.2 | 0.2008 | 100 | 4 | 70-135 | 35 | |
| o-Xylene | ND | 0.1000 | 0.1025 | 103 | 0.1 | 0.0987 | 99 | 4 | 71-133 | 35 | |

Analyst: LATCOR

Date Prepared: 03/13/2009

Date Analyzed: 03/13/2009

Lab Batch ID: 752551

Sample: 752551-1-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 | 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 Hydrocarbons | ND | 2500 | 2180 | 87 | 2500 | 2220 | 89 | 2 | 65-135 | 35 | |



Form 3 - MS Recoveries

Project Name: Midland/Odessa Standard List of Methods



Vork Order #: 327344

Lab Batch #: 752554 Date Analyzed: 03/13/2009

Project ID: 8-0164

Date Prepared: 03/13/2009

Analyst: LATCOR

QC- Sample ID: 327343-001 S

Batch #:

Matrix: Soil

| Reporting Units: mg/kg MATRIX / MATRIX SPIKE REC | | | | | VERY STU | DY |
|--|-----------------------------------|-----------------------|--------------------------------|-----------|-------------------------|------|
| Inorganic Anions by EPA 300 Analytes | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | %R [D] | Control Limits %R | Flag |
| Chloride | 14700 | 4260 | 18800 | 96 | 80-120 | |



Form 5 - MS / MSD Recoveries



71-133

35

Project Name: Midland/Odessa Standard List of Methods

Work Order #: 327344

Date Analyzed: 03/14/2009

Lab Batch ID: 752563

BTEX by EPA 8021B

Analytes

QC- Sample ID: 327400-001 S

Batch #:

Project ID: 8-0164 Matrix: Soil

Date Prepared: 03/14/2009

Analyst: ASA

Reporting Units: mg/kg

Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene

| MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY | | | | | | | | | | | |
|--|-----------------------|--------------------------------|------------------------------|-----------------------|--|-----------------------------|----------|-------------------------|---------------------------|------|--|
| 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 | |
| ND | 0.1004 | 0.0772 | 77 | 0.1004 | 0.0794 | 79 | 3 | 70-130 | 35 | | |
| ND | 0.1004 | 0,0775 | 77 | 0.1004 | 0.0799 | 80 | 3 | 70-130 | 35 | | |
| ND | 0.1004 | 0.0745 | 74 | 0.1004 | 0.0776 | 77 | 4 | 71-129 | 35 | | |
| ND | 0.2008 | 0.1628 | 81 | 0.2008 | 0.1697 | 85 | 4 | 70-135 | 35 | | |
| | 1 | | | | 1 | | T T | | | | |

Lab Batch ID: 752551

Date Analyzed: 03/13/2009

QC-Sample ID: 327344-001 S

Date Prepared: 03/13/2009

ND

0.1004

Batch #:

81

1 Matrix: Soil

0.0847

LATCOR Analyst:

0.1004

| Reporting Units: mg/kg | | M | IATRIX SPIK | E / MAT | RIX SPI | KE DUPLICA | TE REC | OVERY S | STUDY | | |
|-----------------------------------|------------------|--------------|-------------------------|-----------|--------------|----------------------------|----------------|---------|-------------------|-------------------|------|
| TPH by EPA 418.1 | Parent Sample | Spike | Spiked Sample Result | 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 | 1470 | 2690 | 4250 | 103 | 2690 | 4360 | 107 | 3 | 65-135 | 35 | |

0.0818



Sample Duplicate Recovery



Project Name: Midland/Odessa Standard List of Methods

Work Order #: 327344

Lab Batch #: 752554

Project ID: 8-0164

Date Prepared: 03/13/2009

Date Analyzed: 03/13/2009

Analyst: LATCOR

QC-Sample ID: 327343-001 D

Batch #:

Matrix: Soil

| Reporting Units: mg/kg | SAMPLE | SAMPLE | DUPLIC | ATE REC | OVERY |
|------------------------|--------------------------------|-------------------------------|--------|---------------------------|-------|
| Anions by EPA 300 | Parent Sample Result [A] | Sample Duplicate Result | RPD | Control Limits %RPD | Flag |
| Analyte | | [B] | | | |
| Chloride | 14700 | 14800 | 1 | 20 | |

Lab Batch #: 752518

Date Analyzed: 03/13/2009

Date Prepared: 03/13/2009 Analyst: BEV

QC- Sample ID: 327343-001 D

Batch #:

Matrix: 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 | 6.08 | 5.76 | 5 | 20 | |

CHAIN-OF-CUSTODY

| | | | | | | | | | - | | | | , | | | | _ | | | | | | | | | <u> </u> | 111 | <u> </u> | <u> </u> | | | | | | <u>- </u> |
|---------------------------------|--|-------|---------------------------------------|---------------------------------------|------------|-----|------|----------------------------------|---------|-------------|---------|-----------------|---|------|------------|--|-----------------|----------|----------------|------------------|-----------|-----|----------|----------|--------|--|--------------------------------------|----------------|-------------------------|-------------|---------------|--------|------|----|--|
| Aarson ssocia Environment | | 507 N | | larie and, | | | | | 0 | D P | O# | ā: _ : _ | 3- | 12 | - 0 | 9 | | | _ L | AB | wc | RK | OR | DE | | | | | | _OF_ 3 U | | _ _ | | | |
| Environment | ial Consulta | ants | | | 14 | | 2-68 | | | | • | | Р | RO | JEC | TLO | OCA | TIO | N _O | RN | NAN | 1E: | | | | | | | | | | | | | |
| Data Reported to: | | | | | | 43 | Z-00 | ,, -O | 701 | ' | | | Ĺ | AI F | PRO | JEC | T#: | | 8- | - 0 | 16 | .4 | | | | CC | LLE | C1 | TOI | ⋜: | \mathcal{R} | B | | | _ |
| TRRP report? | S=SOIL W=WATE A=AIR | R SL= | AINT SLUDGE OTHER | | | PF | RESE | 1 | ATIC | NC | | | | | | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 2/8°/ | | | | | | | | | | | CAN CONTRACTOR | | 7 } | T STATE | | | / | 7 |
| TIME ZONE: Time zone/State: | Time zone/State: | | | | Containers | | | NaOH 🖸 | | UNPRESERVED | • | ٠ . | E/ | | (3) (3) | | | | | | [] [3] | | | | | | \$\\\ \$\\\ | | | | // | | | | |
| MST | | 2009 | | } | l E | | | 回 | ŀ | ESE | | ار مرکز | ? | | | | >/ \$ | >/< | % > | | | | | <u> </u> | | | 5/z | | " | // | // | | | | |
| Field Sampte t.D. | Lab# | Date | Time | Matrix | # of C | 호 | HNO3 | H ₂ SO ₄ T | 빌 | PAND | N. C. | | 6 / 6 / 6 / 6 / 6 / 6 / 6 / 6 / 6 / 6 / | | | \$/\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | | | | | | | <u>/</u> | | | | | | ./ | _ | FI! | ELD | NOTE | ES | |
| IBC | | 3-12 | 16:40 | ڪ | 1 | | | | X | | X | X | | | | | | | | | | | | | • | 7 | | | | Co | m | Pos | 517 | E | |
| 2NC | | 3-11 | 4.46 | | | | | | | | | L | | | | | | | | | | | | | | | | | | | | _/_ | | _ | |
| 3 WC | | 3-12 | 11:00 | | | | | | \prod | | | | | | | | | | | | | | | | | | | | \Box | | | | | | |
| 4EC | | 3-11 | 5112 | | | | | | | | | | | | | | | | | | | | | | | \prod | \sqcap | | | | | \neg | | | |
| 355C | | 3-12- | 11:30 | 1 | 1 | | | | V | , | | | | | | | | | | | | | | | Ţ | V | | 1 | | | | V. | | | |
| | | 1 | | | | | | | 1 | | | | | | | | | | | | | | | | | | 1 | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | 7 | | | T | | | | | | |
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| | | | | | | | | | | | 7 | | | | | | | | 1 | | | | | | | _ | -i- | 7 | | | | | | | _ |
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| | | | | | | | | | | | | | | | | | | <u> </u> | | | | | | | | 1 | 1 | 1 | | | | | - | | |
| | | | | | | | | | \top | Ť | | | | | | _ | 1 | 1 | | | | _ | 一 | | \top | \top | 1 | T | \top | | | | | | |
| TOTAL | · · · · · · · · · · · · · · · · · · · | | · · · · · · · · · · · · · · · · · · · | | 5 | | | 1. | 3 | | 5 | 5 | | | \top | i | | Τ | | | | | ĺ | | ţ | 5 | | Ť | 寸 | | | | | | |
| TW. Dio | RELINQUISHED/BY:(Signature) DATE/TIME, R | | | | | VEO | BY: | (Sigi | natur | re) | <u></u> | - _1 | | | 4 | URN | 1 | , | NIT C | IE | | | | | USE | ONI | DILY: DISTRIBUTION DINTACT ANOTUSED | | | | | | | | |
| RELINQUISHED BY:(| Signature) | | .DATE/TIN | ΛE | RECEI | VED | BY: | (Sigr | natur | re) | | | | | 11 | DAY | ū | ` | | | | | | | | SE ONLY: IP: 2.5 THERM #: S · C BROKEN D INTACT ANOT USED # | | | | | | | | | |
| RELINQUISHED BY:(| Signature) | · 3. | DATE/TIN | ME 15:15: | RECEI | VED | BY: | (\$) (2) | natur | re) | | | • | | | DAY THE | | | | | | | | | | | | · | THERM#: INTACT ANOTUSED | | | | | | |
| | 3.17.09 15:15 Undrea Fam | | | | | | | | | | | | | | | | <u></u> | _ [| ום | D CARRIER BILL # | | | | | | | | | | | | | | | |

Environmental Lab of Texas

| variance/ Corrective Action Re | bout- Sample | e Log-ir | 1 |
|--|------------------|-----------|---------------------------------------|
| client: Lavson & Assoc. | | | |
| ate/ Time: 3 - 17 - 09 15 : 15 | | | |
| ab ID#: 327344 | | | |
| nitials: QL | | | |
| | | | |
| Sample Receipt | Checklist | • | • |
| | | | . Client Initia |
| 1 Temperature of container/ cooler? | (Yes) | _No_ | 7.5 °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 | <u>No</u> | ļ |
| 7 Chain of Custody signed when relinquished/ received? | (Yes) | No | |
| Chain of Custody agrees with sample label(s)? | (Ýes) | No | ID written on Cont./ Lid |
| 49 Container label(s) legible and intact? | Yes | No No | Not Applicable |
| Sample matrix/ properties agree with Chain of Custody? | (Yes) | No | |
| t11 Containers supplied by ELOT? | (Yes) | No | |
| 12 Samples in proper container/ bottle? | Yes) | No | See Below |
| *13 Samples properly preserved? | | No | See Below |
| #14 Sample bottles intact? | Yes | No_ | |
| †15 Preservations documented on Chain of Custody? | (Yes) | No | 2 |
| #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 |
| Contact: Contacted by: Regarding: | | | Date/ Time: |
| ······································ | | | · · · · · · · · · · · · · · · · · · · |
| Corrective Action Taken: | | | |
| | | | |
| | | | |
| | - | | : |
| Check all that Apply: See attached e-mail/ fax | | | • |
| Client understands and wor | uld like to prod | ceed with | n analysis |
| Cooling process had begur | | | • |
| | - | | = |

Analytical Report 328020

for

Larson & Associates

Project Manager: Michelle Green

Midland/Odessa Standard List of Methods 8-0164

25-MAR-09





12600 West I-20 East Odessa, Texas 79765

Texas certification numbers: Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675 Miramar, FL E86349 Norcross(Atlanta), GA E87429

South Carolina certification numbers: Norcross(Atlanta), GA 98015

North Carolina certification numbers: Norcross(Atlanta), GA 483

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





25-MAR-09

Project Manager: Michelle Green

Larson & Associates P.O. Box 50685 Midland, TX 79710

Reference: XENCO Report No: 328020

Midland/Odessa Standard List of Methods

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 328020. 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. 328020 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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Samp e Cross Reference 328020



Larson & Associates, Midland, TX

Midland/Odessa Standard List of Methods

| Sample Id | Matrix | Date Collected Sample Depth | Lab Sample Id |
|-----------|--------|-----------------------------|---------------|
| 1 BC | S | Mar-19-09 13:25 | 328020-001 |
| 3 WC | S | Mar-19-09 14:20 | 328020-002 |
| 5 SC | S | Mar-19-09 15:15 | 328020-003 |

Project ld: 8-0164

Project Location:

Contact: Michelle Green

. . oje.....ne: ..._lan

:ssa ____dai

t ot

od:

Date Received in Lab: Fri Mar-20-09 08:36 am

Report Date: 25-MAR-09

Project Manager: Brent Barron, II

| | | | | | 1 Toject Manager. | | |
|-----------------------------------|------------|-----------------|-----------------|-----------------|-------------------|---|----------|
| | Lab Id: | 328020-001 | 328020-002 | 328020-003 | | | |
| Analysis Pagyantad | Field Id: | 1 BC | 3 WC | 5 SC | | | |
| Analysis Requested | Depth: | | | | | | |
| | Matrix: | SOIL | SOIL | SOIL | | | |
| | Sampled: | Mar-19-09 13:25 | Mar-19-09 14:20 | Mar-19-09 15:15 | | | |
| Anions by EPA 300 | Extracted: | | | | | | |
| 1 | Analyzed: | Mar-20-09 21:49 | Mar-20-09 21:49 | Mar-20-09 21:49 | | | |
| | Units/RL: | mg/kg RL | mg/kg RL | mg/kg RL | | | |
| Chloride | | 1150 27.4 | 419 11.0 | 305 11.1 | | | |
| BTEX by EPA 8021B | Extracted: | Mar-20-09 10:00 | Mar-20-09 10:00 | Mar-20-09 10:00 | | | |
| | Analyzed: | Mar-20-09 15:25 | Mar-20-09 16:06 | Mar-20-09 15:46 | | | |
| | Units/RL: | mg/kg RL | mg/kg RL | mg/kg RL | | | |
| Benzene | | ND 0.0010 | ND 0.0010 | ND 0.0010 | | | |
| Toluene | | ND 0.0020 | ND 0.0020 | ND 0.0020 | | | |
| Ethylbenzene | | ND 0.0010 | ND 0.0010 | 0.0017 0.0010 | | | |
| m,p-Xylenes | | ND 0.0020 | 0.0036 0.0020 | 0.0029 0.0020 | | | |
| o-Xylene | | ND 0.0010 | ND 0.0010 | ND 0.0010 | | | |
| Total Xylenes | | ND 0.0010 | 0.0036 0.0010 | 0.0029 0.0010 | | _ | <u> </u> |
| Total BTEX | | ND 0.0010 | 0.0036 0.0010 | 0.0046 0.0010 | | | |
| Percent Moisture | Extracted: | | | | | | |
| | Analyzed: | Mar-20-09 17:00 | Mar-20-09 17:00 | Mar-20-09 17:00 | | | |
| | Units/RL: | % RL | % RL | % RL | | | |
| Percent Moisture | | 8.92 1.00 | 8.98 1.00 | 9.57 1.00 | | | |
| TPH by EPA 418.1 | Extracted: | | | | | | |
| | Analyzed: | Mar-24-09 08:53 | Маг-24-09 08:53 | Mar-24-09 08:53 | | 1 | |
| | Units/RL: | mg/kg RL | mg/kg RL | mg/kg RL | | | |
| TPH, Total Petroleum Hydrocarbons | | 708 11.0 | 4320 11.0 | 3200 11.1 | | | |

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 liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Brent Barron

Odessa Laboratory Director



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.
- * 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 |
| 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 |
| | | |



Form 2 - Surrogate Recoveries

Project Name: Midland/Odessa Standard List of Methods

Work Orders: 328020,

Project ID: 8-0164

Lab Batch #: 753294

Sample: 526790-1-BKS / BKS

Batch: 1

Matrix: Solid

| Units: mg/kg Date Analyzed: 03/20/09 11:31 | SU | RROGATE RI | ECOVERY : | STUDY | |
|--|------------------------|-----------------------|----------------|-------------------------|-------|
| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| Analytes | `` | '' | [D] | | |
| 1,4-Difluorobenzene | 0.0317 | 0.0300 | 106 | 80-120 | |
| 4-Bromofluorobenzene | 0.0331 | 0.0300 | 110 | 80-120 | |

Lab Batch #: 753294

Sample: 526790-1-BSD / BSD

Batch: 1

Matrix: Solid

| Units: mg/kg | Date Analyzed: 03/20/09 11:52 |] SU | RROGATE R | ECOVERY: | STUDY | |
|---------------------|-------------------------------|------------------------|-----------------------|----------------|-------------------------|-------|
| BTE | X by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | Analytes | | | (D) | | |
| 1,4-Difluorobenzene | | 0.0304 | 0.0300 | 101 | 80-120 | |

0.0279

4-Bromofluorobenzene

Lab Batch #: 753294

Sample: 526790-1-BLK / BLK

Batch:

0.0300

Matrix: Solid

80-120

| Units: mg/kg Date Analyzed: 03/20/09 12:33 | SU | RROGATE R | ECOVERY: | Control Limits %R 80-120 80-120 | |
|--|-----------------------|-----------------------|----------------|----------------------------------|-------|
| BTEX by EPA 8021B | Amount Found A | True Amount [B] | Recovery %R | Limits | Flags |
| Analytes | [, | | [D] | | |
| 1,4-Difluorobenzene | 0.0261 | 0.0300 | 87 | 80-120 | |
| 4-Bromofluorobenzene | 0.0299 | 0.0300 | 100 | 80-120 | |

Lab Batch #: 753294

Sample: 328020-001 / SMP

Batch: 1

Matrix: Soil

| Units: mg/kg Date Analyzed: 03/20/09 15:25 | SU | RROGATE RI | ECOVERY S | STUDY | |
|--|------------------------|-----------------------|----------------|-------------------------|-------|
| BTEX by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| Analytes | | , , | { D } | | |
| 1,4-Difluorobenzene | 0.0250 | 0.0300 | 83 | 80-120 | |
| 4-Bromofluorobenzene | 0,0307 | 0.0300 | 102 | 80-120 | |

Lab Batch #: 753294

Sample: 328020-003 / SMP

Batch: 1

Matrix: Soil

| Units: mg/kg | Date Analyzed: 03/20/09 15:46 | SU | RROGATE RE | ECOVERY S | STUDY | |
|----------------------|-------------------------------|------------------------|-----------------------|----------------|-------------------------|-------|
| BTE | X by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | Analytes | | | [D] | | |
| 1,4-Difluorobenzene | | 0.0243 | 0.0300 | 81 | 80-120 | |
| 4-Bromofluorobenzene | | 0.0290 | 0.0300 | 97 | 80-120 | |

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Form 2 - Surrogate Recoveries

Project Name: Midland/Odessa Standard List of Methods

Work Orders: 328020,

Project ID: 8-0164

Lab Batch #: 753294

Sample: 328020-002 / SMP

Batch: 1 Matrix: Soil

0.0300

0.0300

0.0300

| Units: mg/kg | Date Analyzed: 03/20/09 16:06 | SU | RROGATE RI | ECOVERY S | STUDY | |
|--------------|-------------------------------|------------------------|-----------------------|----------------|-------------------------|-------|
| ВТЕ | X by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | Analytes | | | [D] | | |

0.0261

0.0320

0.0315

4-Bromofluorobenzene

Lab Batch #: 753294

1,4-Difluorobenzene

Sample: 327939-001 S / MS

Batch: 1

Matrix: Soil

87

107

105

80-120

80-120

80-120

SURROGATE RECOVERY STUDY Units: mg/kg Date Analyzed: 03/20/09 16:27 Amount True Control BTEX by EPA 8021B Found Amount Recovery Limits Flags [A][B]%R %R |D|**Analytes** 1,4-Difluorobenzene 0.0306 0.0300 102 80-120

Lab Batch #: 753294

4-Bromofluorobenzene

Sample: 327939-001 SD / MSD

Batch:

Matrix: Soil

| Units: mg/kg | Date Analyzed: 03/20/09 16:47 | SU | RROGATE RE | ECOVERY S | STUDY | |
|----------------------|-------------------------------|------------------------|-----------------------|----------------|-------------------------|-------|
| втех | X by EPA 8021B | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | Analytes |] | | (D) | | |
| 1,4-Difluorobenzene | | 0.0303 | 0.0300 | 101 | 80-120 | |
| 4-Bromofluorobenzene | | 0.0318 | 0.0300 | 106 | 80-120 | |

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

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution Surrogate Recovery [D] = 100 * A / B



Blank Spike Recovery



Project Name: Midland/Odessa Standard List of Methods

Work Order #: 328020

Project ID:

8-0164

Lab Batch #: 753357

Sample: 753357-1-BKS

Matrix: Solid

Date Analyzed: 03/20/2009

Date Prepared: 03/20/2009

Analyst: LATCOR

norting Unite

| Reporting Units: mg/kg Ba | atch #: | BLANK/B | BLANK SPI | KE REC | OVERYS | STUDY |
|---------------------------|------------------------|-----------------------|--------------------------|----------------------|-------------------------|-------|
| Anions by EPA 300 | Blank Result [A] | Spike Added [B] | Blank Spike Result | Blank Spike %R | Control Limits %R | Flags |
| Analytes | 101 | (0) | [C] | [D] | 7013 | |
| Chloride | ND | 10.0 | 10.3 | 103 | 90-110 | |



BS / BSD Recoveries



Project Name: Midland/Odessa Standard List of Methods

Work Order #: 328020

Analyst: ASA

Date Prepared: 03/20/2009

Project ID: 8-0164

Date Analyzed: 03/20/2009

Lab Batch ID: 753294

Sample: 526790-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

| BTEX by EPA 8021B Analytes | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R D | Spike Added E | Blank Spike Duplicate Result [F] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
|-----------------------------|-------------------------------|-----------------------|---------------------------------|----------------------------|----------------------|---|-------------------------------|----------|-------------------------|---------------------------|------|
| Benzene | ND | 0.1000 | 0.1049 | 105 | 0.1 | 0.0969 | 97 | 8 | 70-130 | 35 | |
| Toluene | ND | 0.1000 | 0.1065 | 107 | 0.1 | 0.0979 | 98 | 8 | 70-130 | 35 | |
| Ethylbenzene | ND | 0.1000 | 0.1068 | 107 | 0.1 | 0.0982 | 98 | 8 | 71-129 | 35 | |
| m,p-Xylenes | ND | 0.2000 | 0.2312 | 116 | 0.2 | 0.2134 | 107 | 8 | 70-135 | 35 | |
| o-Xylene | ND | 0.1000 | 0.1142 | 114 | 0.1 | 0.1048 | 105 | 9 | 71-133 | 35 | |

Analyst: LATCOR

Date Prepared: 03/24/2009

Date Analyzed: 03/24/2009

Lab Batch ID: 753536

Sample: 753536-1-BKS

Batch #: 1

Matrix: Solid

| Units: mg/kg | | BLAN | K/BLANK S | SPIKE / E | BLANK S | PIKE DUPI | ICATE I | RECOVE | ERY STUD | Y | |
|-----------------------------------|-------------------------------|----------------|--------------------------|----------------------|----------------|-----------------------------|------------------------|----------|-------------------------|---------------------------|------|
| TPH by EPA 418.1 | Blank Sample Result [A] | Spike Added | Blank Spike Result | Blank Spike %R | Spike Added | Blank Spike Duplicate | Bik. Spk Dup. %R | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| Analytes | | [B] | [C] | [D] | {E | Result [F] | [G] | | | | |
| TPH, Total Petroleum Hydrocarbons | ND | 2500 | 2330 | 93 | 2500 | 2320 | 93 | 0 | 65-135 | 35 | |



Form 3 - MS Recoveries

Project Name: Midland/Odessa Standard List of Methods



/ork Order #: 328020

Lab Batch #: 753357

2C-Sample ID: 327896-101 S

Date Analyzed: 03/20/2009

Project ID: 8-0164

Date Prepared:

03/20/2009

Analyst: LATCOR

Batch #:

Matrix: Soil

| Reporting | Units: mg/kg | MATI | RIX / MA | TRIX SPIKE | RECOV | ERY STU | DY |
|-----------|---------------------------------------|-----------------------------------|-----------------------|--------------------------------|----------|-------------------------|------|
| 1 | Inorganic Anions by EPA 300 Analytes | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | %R D | Control Limits %R | Flag |
| hloride | | 242 | 206 | 455 | 103 | 80-120 | |



Form 3 - MS / MSD Recordies



71-133

35

Project Name: Midland/Odessa Standard List of Methods

Work Order #: 328020

Project ID: 8-0164

Lab Batch ID: 753294

BTEX by EPA 8021B

Analytes

QC- Sample ID: 327939-001 S

Batch #:

Matrix: Soil

Date Analyzed: 03/20/2009

Date Prepared: 03/20/2009

Analyst: ASA

Reporting Units: mg/kg

| | N | IATRIX SPIKI | E/MAT | RIX SPI | KE DUPLICA | TE REC | OVERY | STUDY | | |
|-----------------------------------|-----------------------|--------------------------------|------------------------------|----------------------|--|-----------------------------|----------|-------------------------|---------------------------|------|
| 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 |
| ND | 0.1019 | 0.0838 | 82 | 0,1019 | 0.0812 | 80 | 3 | 70-130 | 35 | |
| ND | 0.1019 | 0.0834 | 82 | 0.1019 | 0.0802 | 79 | 4 | 70-130 | 35 | _ |
| ND | 0.1019 | 0.0779 | 76 | 0.1019 | 0.0734 | 72 | 6 | 71-129 | 35 | |
| ND | 0.2038 | 0.1679 | 82 | 0.2038 | 0.1585 | 78 | 6 | 70-135 | 35 | |
| | | | | | | | | | | |

Lab Batch ID: 753536

Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene

Date Analyzed: 03/24/2009

QC-Sample ID: 328020-001 S

ND

0.1019

Batch #:

83

Matrix: Soil

0.0798

Date Prepared: 03/24/2009

LATCOR Analyst:

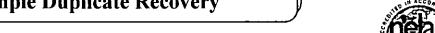
0.1019

| Reporting Units: mg/kg | | N | IATRIX SPIK | E / MAT | RIX SPI | KE DUPLICA | TE REC | OVERY | STUDY | | |
|-----------------------------------|------------------|--------------|-------------------------|-----------|--------------|----------------------------|----------------|-------|-------------------|-------------------|------|
| TPH by EPA 418.1 | Parent Sample | Spike | Spiked Sample Result | Sample | Spike | Duplicate Spiked Sample | 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 | 708 | 2740 | 3470 | 101 | 2740 | 3590 | 105 | 3 | 65-135 | 35 | |

0.0845



Sample Duplicate Recovery



Project Name: Midland/Odessa Standard List of Methods

Work Order #: 328020

Lab Batch #: 753357

Project ID: 8-0164

Date Analyzed: 03/20/2009

Date Prepared: 03/20/2009 Analyst: LATCOR

QC-Sample ID: 327896-101 D

Batch #: Matrix: Soil SAMPLE / SAMPLE DUPLICATE RECOVERY

| Reporting Units: mg/kg | SAMPLE. | SAMPLE | DUPLIC | ATE REC | OVERY |
|----------------------------|-------------------------------|--------------------------------------|--------|---------------------------|-------|
| Anions by EPA 300 Analyte | Parent Sample Result A | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
| Chloride | 242 | 244 | 1 | 20 | |

Lab Batch #: 753313

Date Analyzed: 03/20/2009

03/20/2009 Date Prepared:

Analyst: BEV

QC- Sample ID: 327990-002 D

Batch #:

Matrix: Soil

| Reporting Units: % | SAMPLE / | SAMPLE | DUPLIC | ATE REC | OVERY |
|--------------------|--------------------------------|-------------------------------|--------|---------------------------|-------|
| Percent Moisture | Parent Sample Result [A] | Sample Duplicate Result | RPD | Control Limits %RPD | Flag |
| Analyte | | B | | | |
| Percent Moisture | 10.0 | 9.59 | 4 | 20 | |

CHAIN-OF-CUSTODY

| Aarson & 507 N. Marienfeld, Ste SSOCiates, Inc. Midland, TX 7970 Environmental Consultants 432-687-0901 | | | | | | | | 00 | F | PRC | JE(| CTL | ٠OC، | ATIO | NC | OR | NAN | ΛE: | | | | | | | | | | 1 EC | | <u></u> | | | |
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| Data Reported to: | | | | | L | | | | | | 1 | ļι | LAI PROJECT #: | | | | | | | | 15 | | | | | | | | | | | | |
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| TIME ZONE: Time zone/State: | | | | | iers | | | 징 | VED | | | ری | | | | \{\s\} | // | 287 S | | // | 8/8 8/8 | | / <u>}</u> | | | | 37/2 | | 37/ 3 | // | // | | |
| Nm | | 2009 | |] | Containers | | | ט ט | n d d d | | 3 | 5% | \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | | | \$/ \\\\\\\\\\ | | | 3/5 | 5X | | | X | % | | Z. | χ | | // | // | | | |
| Field Sample I.D. | Lab# | Date | Time | Matrix | jo # | 豆 | HNO | H,SO, T NaOH | LINDRESERVED | 8 | | | | | | | | | [\$\f\] [3] | | \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | % % | | 5/5 2/6 | 7/6 8/6 | | 2 | 9/ | / | FI! | ELD N | OTE: | s |
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| 3WC | | 3-19 | 1:20 | <i>S</i> | | | _ | _ - | X | | | | - | | | | _ - | _ | | _ | ļ | _ | | | Ÿ | _ | ļ | | 12 | يم دي | P_U_ | Set | E CTE |
| 55C | | 3-19 | 3:15_ | 5 | 1 | - | | _ | <u>/-</u> | 1 | \ X | - | | | | - | - | | - | - | _ | | | | 1 | _ | | - | 10 | _0_ | ng . | 151 | 7.6 |
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| TOTAL TOTAL | Signature) | | /DATE/TI | VIE | RECEI | VED | BY: | (Siar | ature | | 7.2 | 1-0 | <u> </u> | ┖┰┸ | | | | | <u></u> _ | - | <u>L</u> | | | | | | | | | | | | |
| RELINOUISHED BY: (Signature) 3/0/09 8:36 RECEIVED BY: (Signature) 03- RELINOUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) | | | | | | | <u>DS</u> | 136_ | - 1 | NOR | N AR MAL) Y 🗀 | | ד פא | IME | RI | | VINC | 3 TE | MP: | _L | 0.1 | ·C | | ERM # | | | | | | | | | |
| RELINQUISHED BY:(| RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature) | | | | | | | <u>. </u> | | _ 2 | DA | Y 💭 ER 🗀 | l | | | 1 | JST(CAF | | | | | BR | OKE | EN (| דאו ב | TACT | XX(NC | OT U | SED | | | | |
| | | | | | | | | | | | | | | | | | | | | | AH | ID D | ELIV | /ERI | ED | | | | | | | | |

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

| Client: | Larson | | - | |
|---------------|---|-----------|----|--------------------------|
| Date/ Time; | 03.20-09 @ 0836 | | | |
| | _ | | | |
| ab ID#: | 328020 | | | |
| nitials: | JMF | | | |
| | Sample Receipt | Checklist | | |
| | | | | Client Initials |
| 1 Tempera | ature of container/ cooler? | (Yés) | No | 4.0 °C |
| 2 Shipping | container in good condition? | Yes | No | |
| 3 Custody | Seals intact on shipping container/ cooler? | Yes | No | Not Present |
| | Seals intact on sample bottles/ container? | Yes | No | (Not Present |
| 5 Chain of | Custody present? | (Yés) | No | |
| 6 Sample | instructions complete of Chain of Custody? | (Yes) | No | |
| | Custody signed when relinquished/ received? | (Yes-) | No | |
| | Custody agrees with sample label(s)? | (Yes-) | No | ID written on Cont./ Lid |
| 9 Containe | er label(s) legible and intact? | Xes- | No | Not Applicable |
| 10 Sample | matrix/ properties agree with Chain of Custody? | Yes | No | |
| 11 Contain | ners supplied by ELOT? | (Yes) | No | |
| 12 Sample | es in proper container/ bottle? | (Yes) | No | See Below |
| | es properly preserved? | (Yes) | No | See Below |
| | bottles intact? | (Yes) | No | |
| | vations documented on Chain of Custody? | Ves | No | |
| | ners documented on Chain of Custody? | (Yes) | No | |
| | ent sample amount for indicated test(s)? | (Yes) | No | See Below |
| | ples received within sufficient hold time? | (Yes) | No | See-Below |
| | ntract of sample(s)? | Yes | No | Not Applicable |
| | amples have zero headspace? | (Yes) | No | Not Applicable |
| Contact: | Variance Docu Contacted by: | mentation | | Date/ Time: |
| Corrective A | ction Taken: | - | | |
| Check all the | at Apply: See attached e-mail/ fax Client understands and wou Cooling process had begun | • | | |

Analytical Report 328209

for

Larson & Associates

Project Manager: Michelle Green

Midland/Odessa Standard List of Methods 8-0164

31-MAR-09





12600 West I-20 East Odessa, Texas 79765

Texas certification numbers: Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675 Miramar, FL E86349 Norcross(Atlanta), GA E87429

> South Carolina certification numbers: Norcross(Atlanta), GA 98015

> North Carolina certification numbers: Norcross(Atlanta), GA 483

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





31-MAR-09

Project Manager: Michelle Green Larson & Associates P.O. Box 50685

Midland, TX 79710

Reference: XENCO Report No: 328209

Midland/Odessa Standard List of Methods

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 328209. 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. 328209 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 328209



Larson & Associates, Midland, TX

Midland/Odessa Standard List of Methods

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|--------------|--------|-----------------|--------------|---------------|
| SS # 5 (13') | S | Mar-23-09 10:30 | 13 ft | 328209-001 |
| SS # 5 (18') | S | Mar-23-09 11:00 | 18 ft | 328209-002 |
| SS # 5 (23') | S | Mar-23-09 11:30 | 23 ft | 328209-003 |

Project Id: 8-0164

Contact: Michelle Green

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t ol. _ _ iod

Report Date: 31-MAR-09

Date Received in Lab: Mon Mar-23-09 04:13 pm

Project Location:

Project Manager: Brent Barron, II

| | | | | | | | | T TO JECT IVIA | lager. Di | CIL Darron, II | |
|--------------------|------------|-----------|-------|-------------|------|-------------|-------|----------------|-----------|----------------|------|
| | Lab Id: | 328209- | 001 | 328209-0 | 02 | 328209-0 | 03 | | | | |
| Analysis Requested | Field Id: | SS # 5 (| 13') | SS # 5 (1 | 8') | SS # 5 (2: | 3') | | | | |
| Anatysis Requesicu | Depth: | 13 ft | | 18 ft | | 23 ft | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | | | | |
| | Sampled: | Mar-23-09 | 10:30 | Mar-23-09 1 | 1:00 | Mar-23-09 l | 1:30 | | | | |
| Anions by EPA 300 | Extracted: | | | | | | | | | | |
| | Analyzed: | Mar-26-09 | 16:30 | Mar-26-09 1 | 6:30 | Mar-30-09 1 | 14:43 | | | | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | |
| Chloride | | 943 | 10.8 | 1390 | 28.1 | 446 | 10.8 | | | | |
| Percent Moisture | Extracted: | | | | | | | - | | - | |
| | Analyzed: | Mar-26-09 | 17:00 | Mar-26-09 1 | 7:00 | Mar-30-09 1 | 6:40 | | | | |
| | Units/RL: | % | RL | % | RL | % | RL | | | | |
| Percent Moisture | | 7.11 | 1.00 | 11.03 | 1.00 | 7.44 | 1.00 | | | | |

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.

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

Brent Barron Odessa Laboratory Director



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.
- * Outside XENCO's scope of NELAC Accreditation.

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| (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 |
| | (281) 240-4200 (214) 902 0300 (210) 509-3334 (813) 620-2000 (305) 823-8500 (432) 563-1800 |



Blank Spike Recovery



Project Name: Midland/Odessa Standard List of Methods

Work Order #: 328209

Project ID:

8-0164

Lab Batch #: 753994

Sample: 753994-1-BKS

Matrix: Solid

Date Analyzed: 03/26/2009

Date Prepared: 03/26/2009

Analyst: LATCOR

| Reporting Units: mg/kg Batch #: 1 BLANK/BLANK SPIKE RECOVERY STUDY | | | | | | |
|--|-----------------|----------------|----------------|----------------|-------------------|-------|
| Anions by EPA 300 | Blank Result | Spike Added | Blank Spike | Blank Spike | Control Limits | Flags |
| Analytes | [A] | B | Result [C] | %R [D] | %R | |
| Chloride | ND | 10.0 | 10.6 | 106 | 90-110 | |

Lab Batch #: 754330

Sample: 754330-1-BKS

Matrix: Solid

Date Analyzed: 03/30/2009

Date Prepared: 03/30/2009

Analyst: LATCOR

Reporting Units: mg/kg

RLANK /RLANK SPIKE RECOVERY STUDY

| - mg contain mg kg | Daten #. | DEANIE / | DUAINK SI I | NE NEC | OVERT | 71001 |
|--------------------|-----------------|----------------|----------------|----------------|-------------------|-------|
| Anions by EPA 300 | Blank Result | Spike Added | Blank Spike | Blank Spike | Control Limits | Flags |
| Analytes | [A] | [B] | Result [C] | %R [D] | %R | |
| Chloride | ND | 10.0 | 10.8 | 108 | 90-110 | |



Form 3 - MS Recoveries

Project Name: Midland/Odessa Standard List of Methods



Vork Order #: 328209

Lab Batch #: 753994

Date Analyzed: 03/26/2009

Date Prepared:

03/26/2009

Project ID: 8-0164

Analyst: LATCOR

QC- Sample ID: 328209-001 S

Batch #:

Matrix: Soil

| Reporting Units: mg/kg | MATE | RIX / MA | TRIX SPIKE | RECO | VERY STU | DY |
|--------------------------------------|----------------------------------|-----------------------|--------------------------------|-----------|-------------------------|------|
| Inorganic Anions by EPA 300 Analytes | Parent Sample Result A | Spike Added [B] | Spiked Sample Result [C] | %R [D] | Control Limits %R | Flag |
| Chloride | 943 | 215 | 504 | 0 | 80-120 | Х |

Lab Batch #: 754330

Date Analyzed: 03/30/2009

Date Prepared:

03/30/2009

Analyst: LATCOR

QC-Sample ID: 328761-001 S

Batch #:

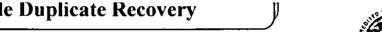
Matrix:

Reporting Units: mg/kg MATRIX / MATRIX SPIKE RECOVERY STUDY Parent **Inorganic Anions by EPA 300** Spiked Sample Control Sample Spike %R Result Limits Flag Result Added [C][D]%R [A] [B] **Analytes** Chloride 409 96 210 611 80-120



Sample Duplicate Recovery

Project Name: Midland/Odessa Standard List of Methods





Work Order #: 328209

Lab Batch #: 753994 Date Analyzed: 03/26/2009

QC-Sample ID: 328209-001 D

Date Prepared:

03/26/2009

Project ID: 8-0164

Analyst: LATCOR

Batch #:

Matrix: Soil

| Reporting Units: mg/kg | SAMPLE | SAMPLE | DUPLIC | ATE REC | OVERY |
|------------------------|--------------------------------|--------------------------------------|--------|---------------------------|-------|
| | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
| Analyte | 1 | 121 | | | |
| Chloride | 943 | 939 | 0 | 20 | |

Lab Batch #: 754330

Date Analyzed: 03/30/2009

03/30/2009 Date Prepared:

Analyst: LATCOR

QC-Sample ID: 328761-001 D

Batch #:

1

Matrix: Soil

| Reporting Units: mg/kg | SAMPLE / | SAMPLE | DUPLIC | ATE REC | OVERY |
|------------------------|--------------------------------|-------------------------------------|--------|---------------------------|-------|
| Anions by EPA 300 | Parent Sample Result [A] | Sample Duplicate Result B | RPD | Control Limits %RPD | Flag |
| Analyte | | [12] | | | |
| Chloride | 409 | 409 | 0 | 20 | |

Lab Batch #: 753990

Date Analyzed: 03/26/2009

Date Prepared: 03/26/2009 Analyst: BEV

QC-Sample ID: 328424-001 D

Batch #:

Matrix: Soil

| Reporting Units: % | SAMPLE / | SAMPLE | DUPLIC | ATE REC | OVERY |
|--------------------|--------------------------------|-------------------------------|--------|---------------------------|-------|
| Percent Moisture | Parent Sample Result [A] | Sample Duplicate Result | RPD | Control Limits %RPD | Flag |
| Analyte | | (B) | ! | | |
| Percent Moisture | 13.9 | 13.5 | 3 | 20 | |

Lab Batch #: 754344

Date Analyzed: 03/30/2009

QC- Sample ID: 328746-001 D

Date Prepared: 03/30/2009 Analyst: BEV

Batch #:

Matrix: Soil

| Reporting Units: % | SAMPLE/SAMPLE DUPLICATE RECOVERY | | | | | | | | | |
|---------------------------|----------------------------------|--------------------------------------|-----|---------------------------|------|--|--|--|--|--|
| Percent Moisture Analyte | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag | | | | | |
| Analyte | 1 | , | | | | | | | | |
| Percent Moisture | 2.71 | 3.00 | 10 | 20 | | | | | | |

HOLD

CHAIN-OF-CUSTODY

| | | | | | | | | | | | | | | | | | | | | | | | | <u> </u> | -17 | • • • | <u> </u> | <u>~</u> | <u> </u> |
|---|--|---------------|----------------|--------|-----------------|-----|--------------|--|---------------------------------------|-------------|---|--------------|-----|---------|---|-----|-----|-----|-----|----------|------------|---|----------|----------|-----|-------|----------|----------|---|
| Aarson & 507 N. Marienfeld, Ste. 200 SSOCiates, Inc. Midland, TX 79701 Environmental Consultants 432-687-0901 | | | | | | | - | DATE: 3/23/09 PAGE 1 OF 1 PO #: LAB WORK ORDER #: 328209 PROJECT LOCATION OR NAME: | | | | | | | | | | | | | | | | | | | | | |
| Data Reported to: | | | | | | | | LAI PROJECT #: 8-0164- COLLECTOR: RAS_ | | | | | | | | | | | | | | | | | | | | | |
| TRRP report? Yes No TIME ZONE: | oon? S=SOIL P=PAINT W=WATER SL=SLUDGE A=AIR OT=OTHER | | | | PRESERVATION | | | | | | | | | | | | | | | | | | | | | | | | |
| Field Sample I.D. | Lab# | Zec 9 Date | Time | Matrix | # of Containers | HCI | | H2SO, IJ NaOH | ICE | UNPRESERVED | AMA! | | | | | | | | | | | | | | | | | | FIELD NOTES |
| SS#5 (13') | | 3/23_ | 10:30 | 5 | 1_ | | | | | | | | | | | | | | | | | | | | Χ | | | | GRAD |
| SS # S (R') | | 3/23_ | 11:66 | 5 | 1 | | | | | | | | | | | | | _ | | | | | | | X | | | | GRAB |
| SS#5 (13 ⁱ) SS#5 (13 ⁱ) SS#5 (23 ⁱ) | | 3/27 | 10:30 11:30 | 5_ | | ļ | | | | | | <u> </u> | _ | | | | _ | | _ _ | | | | | | L | | | | GRAB GRAB |
| | | <u> </u> | | | ļ | | \downarrow | _ | | | | | _ _ | | _ | _ | _ | | _ | | _ | | | | | | | | · · · · · · · · · · · · · · · · · · · |
| | | | <u> </u> | | ļ | | _ | _ | | | | _ | _ _ | | | _ | _ | | _ _ | _ | | | | | | | | | |
| | * | | | | <u> </u> | | _ | | | _ | _ _ | _ | | | | 4 | 1 | _ | | _ | _ | | | \bot | _ | | | _ | |
| | | <u> </u> | <u> </u> | | ļ | | _ | _ . | _ | _ | _ _ | _ _ | _ | | _ | _ | _ _ | _ | _ _ | \perp | | | | | _ | _ | | _ | |
| | | | ļ | | ļ | - | \perp | 4 | _ | _ | _ | - - | _ | | _ | _ _ | _ - | | _ _ | ļ | lacksquare | _ | | _ | _ | | | | |
| | | ļ | | | ļ <u> </u> | | - | _ | | _ | | - - | | | | _ _ | _ - | _ | _ _ | <u> </u> | | | | | | | | | |
| | **- | <u> </u> | | | | | | _ | _ | | | - | - | | - | _ - | 4 | - | - - | - | | | | \dashv | _ | _ | | | · · · · · · · · · · · · · · · · · · · |
| | | | | | · · | | | - | - | _ | | - - | | | | - | - | _ | - | - | | | | _ . | | _ | | _ | |
| | | | - | | | | \dashv | \dashv | 1 | | _ _ | _ | - | | - | - - | - - | | + | - | | | | _ | - | | | | |
| | | | | | <u> </u> | | | \dashv | - | - | | - | +- | | - | | | - - | - | | H | _ | \dashv | - | - | | | | |
| | _ | ! | | · | | | _ | - | - | - | | + | | | _ | + | + | | | + | - | | | \dashv | | | | | |
| TOTAL | | <u> </u> | | · · | 7 | | + | + | + | \dashv | +- | | | - | + | + | + | + | +- | - | \vdash | _ | | + | ا و | + | _ | \dashv | • |
| RELINCUISHED BY: | RELINCUISHED BY: (Signature) RELINCUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) | | | | | | | | 0:13 | - N | TURN AROUND TIME LABORATORY USE ONLY: NORMAL RECEIVING TEMP: 25.0 THERM #: 1 DAY [] | | | | | | | | | | | | | | | | | | |
| RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) | | | | | | | | * (| OTHER I GARRIER BILL # HAND DELIVERED | | | | | | | | | | | | | | | | | | | | |

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

| ient: Larson & Assoc. | | | | |
|---|-----------------|--|--------------------------|-----------|
| ate/ Time: 3 · 13 · 09 16 · 13 | | | | |
| 328209 · | | | | |
| itials: a1 - | | | | |
| | | | - | |
| Sample Receipt | Checklist | • | | |
| | | | Client Initi | als |
| Temperature of container/ cooler? | (Ye)s | No | 15.0 °C | |
| 2 Shipping container in good condition? | Ves | . No | | ٦ |
| 3 Custody Seals intact on shipping container/ cooler? | Yes | No | <not presen=""></not> | \exists |
| Custody Seals intact on sample bottles/ container? | Yes | No | Not Present | ヿ |
| 6 Chain of Custody present? | (Yes | No ' | " - " | ٦ |
| Sample instructions complete of Chain of Custody? | Yes | No | | \neg |
| 7 Chain of Custody signed when relinquished/ received? | (Ýes | No | | ヿ |
| Chain of Custody agrees with sample label(s)? | Yés | No | ID written on Cont./ Lid | 7 |
| 9 Container label(s) legible and intact? | Yes) | No | Not Applicable | ┥. |
| 10 Sample matrix/ properties agree with Chain of Custody?, | Yes | No | | ヿ |
| 11 Containers supplied by ELOT? | Yes) | No | | _ |
| 12 Samples in proper container/ bottle? | Yes) | No | See Below | ヿ |
| 13 Samples properly preserved? | (es) | No | See Below | \dashv |
| 14 Sample bottles intact? | Yes | No | | \neg |
| 15 Preservations documented on Chain of Custody? | Yes | No | | \dashv |
| 16 Containers documented on Chain of Custody? | (Yes) | No | | \dashv |
| 17 Sufficient sample amount for indicated test(s)? | Yes | No | See Below | \dashv |
| 18 All samples received within sufficient hold time? | (és) | No | See Below | _ |
| 19 Subcontract of sample(s)? | Yes | No | Not Applicable | \dashv |
| 20 VOC samples have zero headspace? | Yes | No | (Not Applicable | + |
| Variance Docui | mentation | | | |
| Contact: Contacted by: Regarding: | | - | Date/ Time: | |
| | | | | |
| Corrective Action Taken: | | | | |
| <u> </u> | | | | |
| <u>. </u> | · | ······································ | | |
| | | | | · · · · · |
| Check all that Apply: See attached e-mail/ fax Client understands and wou | ıld like to pro | ceed witl | n analysis | |

Cooling process had begun shortly after sampling event

Gracie Avalos

Michelle Green [michelle@laenvironmental.com]

Sent:

Wednesday, March 25, 2009 2:24 PM

To:

Gracie Avalos

Subject: RE: WO 328020 / 8-0164

Gracie.

Please analyze (Chloride) the first two samples (13' and 18') that were collected March 23, 2009.

Thank you,

Michelle Green

From: Gracie Avalos [mailto:gracie.avalos@xenco.com]

Sent: Wednesday, March 25, 2009 2:01 PM

To: Michelle Green; Mark Larson Subject: WO 328020 / 8-0164

Upon review, please let us know if you will be in need of us running either the 15 soil samples brought in Friday the 20th, or the 3 soil samples brought in Monday the 23rd as they're on hold.

We always appreciate the work you provide, have a good one!

Gracie Avalos Project Assistant Xenco Labs - Odessa 432-563-1800 Office 432-4563-1713 Fax gracie.avalos@xenco.com

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Please consider the environment before printing this email.

Gracie Avalos

From:

Michelle Green [michelle@laenvironmental.com]

Sent:

Monday, March 30, 2009 10:37 AM

To:

Gracie Avalos

Subject: RE: WO 328209 / 8-0164

Gracie.

Can you please analyze sample SS #5 (23') for Chloride. Is it possible to have a result later this afternoon?

Thank you,

Michelle L. Green Larson & Associates, Inc. 507 N Marienfeld, Suite 200 Midland, TX 79701

Office: 432.687.0901 Fax: 432.687.0789 Cell: 432.934.3231



From: Gracie Avalos [mailto:gracie.avalos@xenco.com]

Sent: Monday, March 30, 2009 10:30 AM

To: Michelle Green; Mark Larson Subject: WO 328209 / 8-0164

Importance: High

Gracie Avalos Project Assistant Xenco Labs - Odessa 432-563-1800 Office 432-4563-1713 Fax gracie.avalos@xenco.com

CONFIDENTIALITY STATEMENT

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Analytical Report 329144

for

Larson & Associates

Project Manager: Mark Larson

XTO N. Vacuum-North St. 8-0164

06-APR-09





12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675 Miramar, FL E86349 Norcross(Atlanta), GA E87429

South Carolina certification numbers: Norcross(Atlanta), GA 98015

North Carolina certification numbers: Norcross(Atlanta), GA 483

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







Project Manager: Mark Larson

Larson & Associates P.O. Box 50685 Midland, TX 79710

Reference: XENCO Report No: 329144

XTO N. Vacuum-North St. Project Address: Lea Co., NM

Mark Larson:

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 329144. 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. 329144 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.

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Samp e Cross Reference 329144



Larson & Associates, Midland, TX

XTO N. Vacuum-North St.

Sample Id SS 5 (28')

Matrix S Date Collected

Sample Depth

Lab Sample Id

Apr-02-09 13:40

329144-001

Project Id: 8-0164

Libject, Line: Li J.N. Liun Lin & L.

Contact: Mark Larson

Date Received in Lab: Thu Apr-02-09 05:35 pm

Project Location: Lea Co., NM

Since 1990

Report Date: 06-APR-09

Project Manager: Brent Barron, [1

| | | | 1 TOJECT Manager. | Total Sarroll, II |
|--------------------|------------|-----------------|-----------------------|-------------------|
| | Lab Id: | 329144-001 | | |
| Analysis Requested | Field Id: | SS 5 (28') | | |
| Analysis Kequesieg | Depth: | | | |
| | Matrix: | SOIL | | |
| | Sampled: | Apr-02-09 13:40 | | |
| Anions by EPA 300 | Extracted: | | | |
|] | Analyzed: | Apr-03-09 15:45 | | |
| | Units/RL: | mg/kg RL | | |
| Chloride | | 772 10.7 | | |
| Percent Moisture | Extracted: | | | |
| | Analyzed: | Apr-03-09 12:15 | | |
| | Units/RL: | % RL | | |
| Percent Moisture | | 6.62 1.00 | | |

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.

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

Brent Barron

Odessa Laboratory Director



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.
- * Outside XENCO's scope of NELAC Accreditation.

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Blank Spike Recovery



Project Name: XTO N. Vacuum-North St.

Work Order #: 329144

Project ID:

8-0164

Lab Batch #: 754827

Sample: 754827-1-BKS

Matrix: Solid

Date Analyzed: 04/03/2009

Date Prepared: 04/03/2009

Analyst: LATCOR

| Reporting Units: mg/kg | Batch #: 1 | BLANK/B | BLANK SPI | KE REC | OVERY S | STUDY | |
|------------------------|------------------------|-----------------------|--------------------------|----------------------|-------------------------|-------|--|
| Anions by EPA 300 | Blank Result [A] | Spike Added [B] | Blank Spike Result | Blank Spike %R | Control Limits %R | Flags | |
| Analytes | [A] | (10) | C | D | /0K | | |
| Chloride | ND | 10.0 | 11.1 | 111 | 80-120 | | |



Form 3 - MS Recoveries

Project Name: XTO N. Vacuum-North St.



Vork Order #: 329144

Lab Batch #: 754827 Date Analyzed: 04/03/2009

Project ID: 8-0164

Date Prepared:

04/03/2009

Analyst: LATCOR

QC- Sample ID: 329144-001 S

Batch #:

Matrix: Soil

| Reporting Units: mg/kg | MATE | RIX / MA | TRIX SPIKE | RECO | VERY STU | DY |
|---------------------------------------|-----------------------------------|-----------------------|--------------------------------|-----------|-------------------------|------|
| Inorganic Anions by EPA 300 Analytes | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | %R [D] | Control Limits %R | Flag |
| Chloride | 772 | 214 | 951 | 84 | 80-120 | |



Sample Duplicate Recovery



Project Name: XTO N. Vacuum-North St.

Work Order #: 329144

Lab Batch #: 754827

Project ID: 8-0164

Date Prepared: 04/03/2009 Date Analyzed: 04/03/2009

1

Analyst: LATCOR

QC- Sample ID: 329144-001 D

Batch #:

Matrix: Soil

| Reporting Units: mg/kg | SAMPLE | SAMPLE | DUPLIC | ALE REC | OVERY |
|------------------------|--------------------------------|-------------------------------|--------|---------------------------|-------|
| Anions by EPA 300 | Parent Sample Result [A] | Sample Duplicate Result | RPD | Control Limits %RPD | Flag |
| Analyte | [**] | (B) | ! | | |
| Chloride | 772 | 777 | i | 20 | |

Lab Batch #: 754812

Date Analyzed: 04/03/2009

Date Prepared: 04/03/2009 Analyst: BEV

QC- Sample ID: 329144-001 D

Batch #: 1 Matrix: 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 |
| Analyte | | • • | | | |
| Percent Moisture | 6.62 | 6.54 | 1 | 20 | |

Xenco Laboratories

The Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Odessa, Texas 79765 Phone: 432-563-1800 Fax: 432-563-1713

| | Project Manager: | M. Louse | \sim | | | | | | | | | | | | | _ | Proj | ect N | lame | : <u>Χ</u> | <u>(TC</u> | 1 ز | 1- | 火 | <u>JC</u> | <u>uu</u> | <u>: H-</u> | ~ | Į∽t | <u>n:</u> | 5 |
|----------------------|--------------------|----------|-----------------|---------------|-----------------|--------------|----------------|------------------------|--------------|---------|----------|--------------|--------------|------------------|------------|---|--------------|---|-------------------|-------------------------|------------------------|---------------------------------|---------------|-------------------------|------------------------------|-------------------|-------------------|------------------|-----------------|-------------------------------|--------------|
| | Company Name | Lareon 4 | | <u>و دیرژ</u> | cote | - 1/c. | | | | | | | | | | _ | | Proj | ect# | : | S | _ | <u>O</u> | 14 | <u>.4</u> | | | | | | |
| | Company Address: | 507 N. | M | <u>. 71</u> | enfold | _ * 200 | | | | | | | | | | | | | | | | | | | | | ٧ - | | | - | |
| | City/State/Zip: | Midland, | π× | | 7701 | | | | | | | | | | | _ | | | PO# | | | | | | | | | | | | |
| | Telephone No: | • | 7-0 | 301 | | Fax No: | | (1 | 43 | z) | ረን | 7 | -0 | 45 | 6 | Rep | oort l | orm | at: | E |] Sta | nda | ird | | | TRR | ~~~ ₹P | | NPE | DES | |
| | Sampler Signature: | | | - | | - e-mail: | | | | | | | | | | <u>anv</u> | | | | | C | o [1 | ı | | | | | | | | |
| (lab use | only) | | • | | ···· | - | | | | | | | | • | | | | | | | CŁP: | A | nalyz | ze Fo | or: | $\overline{\neg}$ | $\overline{\top}$ | \equiv | \dashv | | |
| ORDE | ~ ~ ~ | 144 | | | | | | | <u> </u> | Prese | ervatio | ın & 4 | at Co | ntaine | ers | Matr | ix | # T | 1 | | TAL: | | | П | | 1 | | | | 48, 72 h | |
| LAB # (lab use only) | | D CODE | Beginning Depth | Ending Depth | Date Sampled | Time Sampled | Field Filtered | Total #, of Containers | | HNO | | | HOBA | | S | DW=Onnking Water St.=Studge GW = Groundwater S=Sou/Solid | pecify Other | IPH; 418.1 8015M 8015 TPH: TX 1005 TX 1006 | ž. X | 12 | SAR / ESP / CEC | Metals: As Ag Ba Cd Cr Pb Hg So | Volatiles | Semivolatiles, | BTEX 8021B/5030 or BTEX 8260 | RCI | N.O.R.M. | ļ | | RUSH TAT (Pre-Schedule) 24, 4 | Standard TAT |
| 01 | S55(281) | | | | 4-2.09 | 13:40 | | 2 | | | | | | > | | ತ | | | Ŀ | $\overline{\mathbf{x}}$ | | | 口 | | | 丁 | 丁 | | | 又 又 | _ |
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| - | | | 1 | | <u> </u> | | \vdash | | | | \dashv | \dashv | + | + | + | | ╌┼ | - - | ┤ | ╁ | \vdash | H | \dashv | \dashv | \dashv | 十 | - | + | $\vdash \vdash$ | \dashv | - |
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| Relinquist | | Date | 173 | me | Received by: | | | | | • | | | | 1 | Dat | te | Tir _ | ne | Lat Cus Cus | els (stod) stod) | on c y sea y sea | onta als o als o | iner(| (s) intair ioler(| ner(s | ;) | • | 8 |) <u>1</u> (1)4 | z (2) z (2) z | |
| | - | | - | | | | | ٠. | | | | | | 1 | | · | •" | | | by S by C | amp Count | <i>ler/</i> C er? | lient J | Rep UPS | D | HL | Fe | SdEx | Lone | v Star | r |
| Relinquish | ned by: | Date | Tir | ne | Received by ELC | un te | n | N | | | | | | ų. | Dat Z-C | | <u>. آ</u> ا | 35 | <u>'</u> _ ` | 7 nper | 40 aluri | Z e Up | g la ion F | 15 S ₹ece | s ipt: | | | 3 . 5 | | .c | |

Environmental Lab of Texas

| | Variance/ Corrective Action Rep | ort- Sample | e Log-In | 1 | |
|---------------------------------------|---|---------------------------------------|----------|--------------------------|-----------------|
| Client: | Larson & Assoc | | | | |
| Date/ Time: | 4.209 7.35 | | | | |
| Lab ID # : | 329144 | | | | |
| Initials: | · al . | | | | |
| | Sample Receipt | Checklist | | | |
| | | · · · · · · · · · · · · · · · · · · · | · | | Client Initials |
| #1 Tempera | ture of container/ cooler? | (es) | No_ | 23.5 °c | |
| #2 Shipping | container in good condition? | (Yes) | No | | |
| | Seals intact on shipping container/ cooler? | Yes | No_ | _Not-Present | |
| | Seals intact on sample bottles/ container? | Yes | .No | Not Present | |
| | Custody present? | Yes) | No | - | |
| #6 Sample i | nstructions complete of Chain of Custody? | (Yes) | No | | <u> </u> |
| #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 Containe | er label(s) legible and intact? | (Yes) | No | Not Applicable | |
| #10 Sample | matrix/ properties agree with Chain of Custody? | (Yes) | No | | |
| #11 Contain | ers supplied by ELOT? | (Yes) | _No | | |
| #12 Sample | s in proper container/bottle? | (Yes) | No | See Below | |
| #13 Sample | s properly preserved? | (Yes) | No | See Below | 0 |
| #14 Sample | bottles intact? | Yes | No | | |
| #15 Preserv | ations documented on Chain of Custody? | (Yes | No | | |
| | ers documented on Chain of Custody? | (Yes) | No | | |
| | nt sample amount for indicated test(s)? | Yes | No | See Below | |
| #18 All sam | ples received within sufficient hold time? | <yes></yes> | No | See Below | |
| | tract of sample(s)? | Yes | No | CNot Applicable | |
| #20 VOC sa | imples have zero headspace? | Yes | No | Not Applicable | |
| | Variance Docu | mentation | | | |
| Contact: | Contacted by: | | - | Date/ Time: | |
| Regarding: | | | | | |
| Corrective A | ction Taken: | | | | |
| · · · · · · · · · · · · · · · · · · · | | | | | |
| | | | | | |
| Check all tha | See attached e-mail/ fax Client understands and wou Cooling process had begun | · · · · · · · · · · · · · · · · · · · | | • | · |

Analytical Report 329622

for

Larson & Associates

Project Manager: Michelle Green

XTO Vacuum North 8-0164

20-APR-09





12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675 Miramar, FL E86349 Norcross(Atlanta), GA E87429

South Carolina certification numbers: Norcross(Atlanta), GA 98015

North Carolina certification numbers: Norcross(Atlanta), GA 483

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





20-APR-09

Project Manager: Michelle Green

Larson & Associates P.O. Box 50685 Midland, TX 79710

Reference: XENCO Report No: 329622

XTO Vacuum North
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 329622. 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. 329622 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 329622



Larson & Associates, Midland, TX

XTO Vacuum North

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-------------------|--------|-----------------|--------------|---------------|
| BH-1,5' (13'BGS) | S | Apr-08-09 09:00 | | 329622-001 |
| BH-1,10' (18'BGS) | S | Apr-08-09 09:05 | | 329622-002 |
| BH-1,15' (23'BGS) | S | Apr-08-09 09:10 | | 329622-003 |
| BH-1,20' (28'BGS) | S | Apr-08-09 09:15 | | 329622-004 |
| BH-1,25' (33'BGS) | S | Apr-08-09 09:25 | | 329622-005 |
| BH-1,30' (38'BGS) | S | Apr-08-09 09:35 | | 329622-006 |
| BH-1,40' (48'BGS) | S | Apr-08-09 09:45 | | 329622-007 |
| BH-1,50' (58'BGS) | S | Apr-08-09 10:00 | | 329622-008 |
| | | | | |



Certificate of Analysis Summary 329622 Larson & Associates, Midland, TX



Project Name: XTO Vacuum North

Project Id: 8-0164

Date Received in Lab;

10.7

ND

ND

10.4

ND

10.7

Date Received in Lab: Apr-08-09 05:20 pm

Contact: Michelle Green

Report Date: 20

20-APR-09 Brent Barron, II

Project Location:

TPH, Total Petroleum Hydrocarbons

Project Manager:

Lab Id: 329622-001 329622-002 329622-003 329622-004 Analysis Requested BH-1,5' (13'BGS) BH-1,15' (23'BGS) BH-1,20' (28'BGS) Field Id: BH-1,10' (18'BGS) Depth: Matrix: SOIL SOIL SOIL SOIL Sampled: Apr-08-09 09:00 Apr-08-09 09:05 Apr-08-09 09:10 Apr-08-09 09:15 Extracted: Anions by EPA 300 Analyzed: Apr-09-09 10:41 Apr-09-09 10:41 Арг-09-09 10:41 Apr-09-09 10:41 Units/RL: mg/kg mg/kg mg/kg mg/kg Chloride 2370 55.3 10.7 77.8 10.4 428 10.7 111 Extracted: Percent Moisture Apr-09-09 08:45 Apr-09-09 08:45 Арг-09-09 08:45 Арт-09-09 08:45 Analyzed: Units/RL: RL RL RL. RLPercent Moisture 9.54 1.00 6.73 1.00 4.17 1.00 6.35 1.00 Extracted: Apr-10-09 16:35 Apr-10-09 16:35 Apr-10-09 16:35 Apr-10-09 16:35 TPH By SW8015 Mod Analyzed: Apr-11-09 12:45 Арг-11-09 13:10 Apr-11-09 13:35 Apr-11-09 14:00 Units/RL. mg/kg mg/kg RL mg/kg RLmg/kg RL. C6-C12 Gasoline Range Hydrocarbons ND 16.6 ND 16.1 ND 15.7 ND 16.0 C12-C28 Diesel Range Hydrocarbons 16.9 16,6 17.7 16.0 16.1 16.5 15.7 ND C28-C35 Oil Range Hydrocarbons 16.6 16.1 ND 15.7 ND 16.0 ND ND Total TPH 17.7 ND 16.0 16.9 16.6 16.1 16.5 15.7 Extracted: **TPH by EPA 418.1** Analyzed: Apr-09-09 14:32 Apr-09-09 14:32 Apr-09-09 14:32 Арг-09-09 14:32 mg/kg Units/RL: RL RL. RLRL mg/kg mg/kg mg/kg

ND

11.1

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 liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Bront Burron

Version: 1,017

Odessa Laboratory Director



Certificate of Analysis Summary 329622 Larson & Associates, Midland, TX



Project Id: 8-0164

Project Location:

Contact: Michelle Green

Project Name: XTO Vacuum North

Date Received in Lab: Apr-08-09 05:20 pm

Report Date:

20-APR-09

Project Manager:

Brent Barron, II

| | Lab Id: | 329622-00 | 05 | 329622-0 | 06 | 329622-0 | 07 | 329622-0 | 08 |
|--------------------|------------|---------------|------|---------------|-------|---------------|------|--------------|-------|
| Analysis Requested | Field Id: | BH-1,25' (33' | BGS) | BH-1,30' (38' | BGS) | BH-1,40' (48' | BGS) | BH-1,50' (58 | 'BGS) |
| | Depth: | | | | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | |
| | Sampled: | Apr-08-09 0 | 9:25 | Apr-08-09 (| 9:35 | Apr-08-09 0 | 9:45 | Apr-08-09 | 10:00 |
| Anions by EPA 300 | Extracted: | | | | | | | | |
| Timons by Elithous | Analyzed: | Apr-09-09 1 | 0:41 | Apr-09-09 1 | 0:41 | Арт-09-09 1 | 0:41 | Apr-14-09 | 10:04 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 2190 | 53.4 | 1720 | 26.3 | 330 | 10.7 | 120 | 10.6 |
| Percent Moisture | Extracted: | | ĺ | | | | ĺ | | |
| | Analyzed: | Apr-09-09 0 | 8:45 | Apr-09-09 (|)8:45 | Apr-09-09 0 | 8:45 | Apr-14-09 | 20:02 |
| | Units/RL: | % | RL | % | RL | % | RL | % | RL |
| Percent Moisture | | 6.30 | 1.00 | 5.09 | 1.00 | 6.94 | 1.00 | 5.99 | 1.00 |

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

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Odessa Laboratory Director



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 MOL and above the SOL.
- 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.
- * Outside XENCO's scope of NELAC Accreditation.

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| 842 Cantwell Lane, Corpus Christi, TX 78408 | (361) 884-0371 | (361) 884-9116 |
| | | |



Form 2 - Surrogate Recoveries

Project Name: XTO Vacuum North

Work Orders: 329622,

Project ID: 8-0164

Lab Batch #: 755565

Sample: 528142-1-BKS / BKS

Batch:

Matrix: Solid

| Units: mg/kg | Date Analyzed: 04/11/09 06:50 | su | IRROGATE RI | ECOVERY S | STUDY | |
|----------------|-------------------------------|------------------------|-----------------------|----------------|-------------------------|-------|
| ТРН | By SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | Analytes | | , , | [D] | | |
| 1-Chlorooctane | | 99.6 | 100 | 100 | 70-135 | |
| o-Terphenyl | | 45.2 | 50.0 | 90 | 70-135 | |

Lab Batch #: 755565

Sample: 528142-1-BSD / BSD

Batch: 1

Matrix: Solid

| Units: mg/kg | Date Analyzed: 04/11/09 07:15 | SU | RROGATE R | ECOVERY S | STUDY | |
|----------------|-------------------------------|------------------------|-----------------------|----------------|-------------------------|-------|
| TPH By S | W8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| An | alytes | 11 | 1-1 | [D] | , | |
| 1-Chlorooctane | | 99.4 | 100 | 99 | 70-135 | |
| o-Terphenyl | | 45.7 | 50.0 | 91 | 70-135 | |

Lab Batch #: 755565

Sample: 528142-1-BLK / BLK

Batch:

Matrix: Solid

| Units: mg/kg | Date Analyzed: 04/11/09 07:40 | SU | RROGATE R | ECOVERY: | STUDY | |
|----------------|-------------------------------|------------------------|-----------------------|----------------|-------------------------|-------|
| . ТРН В | y SW8015 Mod | Amount Found [A] | True Amount (B) | Recovery %R | Control Limits %R | Flags |
| | Analytes | , , | | [D] | | |
| 1-Chlorooctane | | 87.8 | 100 | 88 | 70-135 | - |
| o-Terphenyl | | 50.2 | 50.0 | 100 | 70-135 | |

Lab Batch #: 755565

Sample: 329622-001 / SMP

Batch: 1

Matrix: Soil

| Units: mg/kg | Date Analyzed: 04/11/09 12:45 | SU | RROGATE R | ECOVERY | STUDY | |
|----------------|-------------------------------|------------------------|-----------------------|----------------|-------------------------|-------|
| ТРН | By SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | Analytes | | | [D] | | |
| 1-Chlorooctane | | 87.2 | 100 | 87 | 70-135 | |
| o-Terphenyl | | 49.7 | 50.0 | 99 | 70-135 | |

Lab Batch #: 755565

Sample: 329622-002 / SMP

Batch: 1

Matrix: Soil

| Units: mg/kg Date Analyzed: 04/11/09 13:10 | | SURROGATE RECOVERY STUDY | | | | | | | | |
|--|-----|--------------------------|----------------------|----------------|-------------------------|-------|--|--|--|--|
| TPH By SW8015 | Mod | Amount Found [A] | True Amount B | Recovery %R | Control Limits %R | Flags | | | | |
| Analytes | | | | [D] | | | | | | |
| 1-Chlorooctane | | 85.6 | 100 | 86 | 70-135 | | | | | |
| o-Terphenyl | | 48.8 | 50.0 | 98 | 70-135 | | | | | |

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Form 2 - Surrogate Recoveries

Project Name: XTO Vacuum North

Work Orders: 329622,

Project ID: 8-0164

Lab Batch #: 755565

Sample: 329622-003 / SMP

Batch: 1 Matrix: Soil

| Units: mg/kg | Date Analyzed: 04/11/09 13:35 | SU | RROGATE RI | ECOVERY S | STUDY | |
|----------------|-------------------------------|------------------------|-----------------------|----------------|-------------------------|-------|
| ТРН В | y SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | Analytes | 1/* | (D) | [D] | 701 | |
| 1-Chlorooctane | | 83.0 | 100 | 83 | 70-135 | |
| o-Terphenyl | | 47 I | 50.0 | 94 | 70-135 | |

Lab Batch #: 755565

Sample: 329622-004 / SMP

Batch: 1

Matrix: Soil

| Units: mg/kg | Date Analyzed: 04/11/09 14:00 | SURROGATE RECOVERY STUDY | | | | | | | | |
|----------------|-------------------------------|--------------------------|-----------------------|----------------|-------------------------|-------|--|--|--|--|
| ТРН | By SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | | | |
| | Analytes | (1 | 1-1 | [D] | | | | | | |
| 1-Chlorooctane | | 85.5 | 100 | 86 | 70-135 | | | | | |
| o-Terphenyl | | 48.7 | 50.0 | 97 | 70-135 | | | | | |

Lab Batch #: 755565

Sample: 329622-001 S/MS

Batch:

Matrix: Soil

| Units: mg/kg Date Analyzed: 04/11/09 16:52 | SU | RROGATE RI | ECOVERY : | STUDY | |
|--|------------------------|-----------------------|----------------|-------------------------|-------|
| TPH By SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| Analytes | | | [D] | | |
| 1-Chlorooctane | 102 | 100 | 102 | 70-135 | |

46.5

Lab Batch #: 755565

o-Terphenyl

Sample: 329622-001 SD / MSD

Batch:

1 Matrix: Soil

70-135

50.0

| Units: mg/kg | Units: mg/kg Date Analyzed: 04/11/09 17:17 | | RROGATE R | ECOVERY : | STUDY | • • |
|----------------|--|------------------------|----------------------|----------------|-------------------------|-------|
| ТРН | By SW8015 Mod | Amount Found [A] | True Amount B | Recovery %R | Control Limits %R | Flags |
| | Analytes | | | D | | |
| 1-Chlorooctane | | 104 | 100 | 104 | 70-135 | |
| o-Terphenyl | | 47.4 | 50.0 | 95 | 70-135 | |

Surrogate Recovery [D] = 100 * A / B

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

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Blank Spike Recovery



Project Name: XTO Vacuum North

Work Order #: 329622

Project ID:

8-0164

Lab Batch #: 755399

Sample: 755399-1-BKS

Matrix: Solid

Date Analyzed: 04/09/2009

Date Prepared: 04/09/2009

Analyst: LATCOR

| Reporting Units: mg/kg | Batch #: 1 BLANK/BLANK SPIKE RECOVERY STUD | | | | | |
|------------------------|--|----------------|----------------|----------------|-------------------|-------|
| Anions by EPA 300 | Blank Result | Spike Added | Blank Spike | Blank Spike | Control Limits | Flags |
| Analytes | [A] | [[B] | Result [C] | %R [D] | %R | |
| Chloride | ND | 10.0 | 10.6 | 106 | 80-120 | |

Lab Batch #: 755901

Sample: 755901-1-BKS

Matrix: Solid

Date Analyzed: 04/14/2009

Date Prepared: 04/14/2009

Analyst: LATCOR

Reporting Units: mg/kg

BLANK /BLANK SPIKE RECOVERY STUDY

| —————————————————————————————————————— | Daten #: | BLANK/BLANKSFIRE RECOVERT STUDI | | | | | | |
|--|-----------------|---------------------------------|----------------|----------------|-------------------|-------|--|--|
| Anions by EPA 300 | Blank Result | Spike Added | Blank Spike | Blank Spike | Control Limits | Flags | | |
| Analytes | [A] | [B] | Result [C] | %R D] | %R | | | |
| Chloride | ND | 10.0 | 10.1 | 101 | 80-120 | | | |

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



BS / BSD Recoveries



Project Name: XTO Vacuum North

Work Order #: 329622

Analyst: BEV

Date Prepared: 04/09/2009

Project ID: 8-0164

Date Analyzed: 04/09/2009

Lab Batch ID: 755401

Sample: 755401-1-BKS

Batch #: 1

Matrix: Solid

| Units: mg/kg | <u> </u> | BLAN | K/BLANK | SPIKE / I | SLANK S | SPIKE DUPI | JCAIE I | RECUVI | EKY SIUL | Y | |
|----------------------------------|-------------------------------|----------------|--------------------------|----------------------|----------------|-----------------------------|------------------------|----------|-------------------------|---------------------------|------|
| TPH by EPA 418.1 | 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 Hydrocarbons | ND | 2500 | 2180 | 97 | 2500 | 2210 | 88 | 1 | 65-135 | 35 | |

Analyst: BHW

Date Prepared: 04/10/2009

Date Analyzed: 04/11/2009

Lab Batch ID: 755565

Sample: 528142-1-BKS

Batch #: 1

Matrix: Solid

| Units: mg/kg | | BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY | | | | | | | | | |
|------------------------------------|-------------------------------|---|--------------------------|----------------------|----------------|-----------------------------|------------------------|----------|-------------------------|---------------------------|------|
| TPH By SW8015 Mod | 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] | | | | |
| C6-C12 Gasoline Range Hydrocarbons | ND | 1000 | 995 | 100 | 1000 | 980 | 98 | 2 | 70-135 | 35 | |
| C12-C28 Diesel Range Hydrocarbons | ND | 1000 | 950 | 95 | 1000 | 937 | 94 | 1 | 70-135 | 35 | |

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



Form 3 - MS Recoveries

Project Name: XTO Vacuum North



Vork Order #: 329622

Lab Batch #: 755399 Date Analyzed: 04/09/2009

QC- Sample ID: 329622-001 S

Project ID: 8-0164

Date Prepared:

04/09/2009

Analyst: LATCOR

Batch #:

Matrix: Soil

| Reporting Units: mg/kg | TRIX / 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 | 2370 | 1110 | 3590 | 110 | 80-120 | |

Lab Batch #: 755901

Date Analyzed: 04/14/2009

Date Prepared:

04/14/2009

1

Analyst: LATCOR

QC-Sample ID: 330010-001 S

Batch #:

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 | 709 | 207 | 868 | 77 | 80-120 | Х | | |

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



horm 3 - MS / MSD Recoveries

Project Name: XTO Vacuum North

Work Order #: 329622

Project ID: 8-0164

Lab Batch ID: 755401

QC- Sample ID: 329622-001 S

Batch #:

Matrix: Soil

Date Analyzed: 04/09/2009

Date Prepared: 04/09/2009

Analyst: BEV

Reporting Units

| Reporting Units: mg/kg | MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY | | | | | | | | 1 | | |
|-----------------------------------|--|--------------|-------------------------|----------|--------------|----------------------------|-----------|-----|-------------------|-------------------|------|
| TPH by EPA 418.1 | Parent Sample | Spike | Spiked Sample Result | Sample | | Duplicate Spiked Sample | | RPD | Control Limits | Control Limits | Flag |
| Analytes | Result [A] | Added [B] | [C] | %R D | Added [E] | Result [F] | %R G} | % | %R | %RPD | : |
| TPH, Total Petroleum Hydrocarbons | ND | 2760 | 2510 | 91 | 2760 | 2500 | 91 | 0 | 65-135 | 35 | |

Lab Batch ID: 755565

QC- Sample ID: 329622-001 S

Batch #:

Matrix: Soil

Date Analyzed: 04/11/2009

Date Prepared: 04/10/2009

Analyst:

1 BHW

| Reporting Units: mg/kg MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY | | | | | | | | | | | |
|---|------------------|--------------|-------------------------|-----------|--------------|----------------------------|----------------|-----|-------------------|-------------------|------|
| TPH By SW8015 Mod | Parent Sample | Spike | Spiked Sample Result | 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 | |
| C6-C12 Gasoline Range Hydrocarbons | ND | 1110 | 1110 | 100 | 1110 | 1120 | 101 | 1 | 70-135 | 35 | |
| C12-C28 Diesel Range Hydrocarbons | 16.9 | 1110 | 1060 | 94 | 1110 | 1070 | 95 | 1 | 70-135 | 35 | |



Sample Duplicate Recovery





Work Order #: 329622

Lab Batch #: 755399

Date Analyzed: 04/09/2009

Date Prepared:

04/09/2009

Project ID: 8-0164 Analyst: LATCOR

QC- Sample ID: 329622-001 D

Batch #:

Matrix: Soil

| Reporting Units: mg/kg SAMPLE / SAMPLE DUPL | | | | | OVERY |
|---|--------------------------|-------------------------------|-----|---------------------------|-------|
| Anions by EPA 3 | Parent Sample Result [A] | Sample Duplicate Result | RPD | Control Limits %RPD | Flag |
| Analyte | | [B] | | | |
| Chloride | 2370 | 2320 | 2 | 20 | |

Lab Batch #: 755901

Date Analyzed: 04/14/2009

04/14/2009 Date Prepared:

1

1

Analyst: LATCOR

QC-Sample ID: 330010-001 D

Batch #:

Matrix: Soil

| Reporting Units: mg/kg | SAMPLE / | SAMPLE/SAMPLE DUPLICATE RECOVERY | | | | | | | | | |
|------------------------|--------------------------------|--------------------------------------|-----|---------------------------|------|--|--|--|--|--|--|
| Anions by EPA 300 | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag | | | | | | |
| Analyte | | lol | |] | | | | | | | |
| Chloride | 709 | 690 | 3 | 20 | | | | | | | |

Lab Batch #: 755304

Date Analyzed: 04/09/2009

Date Prepared: 04/09/2009 Analyst: BEV

QC- Sample ID: 329619-001 D

Batch #:

Matrix: Soil

| Reporting Units: % | SAMPLE / | SAMPLE/SAMPLE DUPLICATE RECOVERY | | | | | | | | | |
|--------------------|-------------------------------|----------------------------------|-----|---------------------------|------|--|--|--|--|--|--|
| Percent Moisture | Parent Sample Result A | Sample Duplicate Result | RPD | Control Limits %RPD | Flag | | | | | | |
| Analyte | | [B] | | | | | | | | | |
| Percent Moisture | 8.51 | 8.67 | 2 | 20 | | | | | | | |

Lab Batch #: 755862

Date Analyzed: 04/14/2009

Date Prepared: 04/14/2009

Analyst: BEV

QC- Sample ID: 330010-001 D

Batch #:

Matrix: Soil

| Reporting Units: % | SAMPLE / | SAMPLE/SAMPLE DUPLICATE RECOVERY | | | | | | | | |
|--------------------|--------------------------------|--------------------------------------|-----|---------------------------|------|--|--|--|--|--|
| Percent Moisture | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag | | | | | |
| Analyte | | 121 | | | | | | | | |
| Percent Moisture | 3.55 | 3.48 | 2 | 20 | | | | | | |

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

CHAIN-OF-CUSTODY

| | CHAIN-OF-GOGTOBT |
|---|---|
| A arson & 507 N. Marienfeld, Ste. 20 | DATE: 4-8-09 PAGE OF U PO #: LAB WORK ORDER #: 329622 |
| SSOCIATES, Inc. Midland, TX 79701 | PO#: LAB WORK ORDER #: 52 1000 |
| 1 432 007 0701 | PROJECT LOCATION OR NAME: XTO VACUUM NORTH LAI PROJECT #: 8-0164 COLLECTOR: MITRB |
| Data Reported to: MICHELLE GREEN. | LAIPROJECT#: 8-0164 COLLECTOR: 1/1/1/20 |
| TRRP report? S=SOIL P=PAINT PRESERVATION W=WATER SL=SLUDGE | |
| Yes - NO A=AIR OT=OTHER | |
| TIME ZONE: - Time zone/State: MST Field Sample I.D. Lab # Date Time Matrix # H H G H G H G H G H G H G H G H G H G | |
| Time zone/State: MST Zoo9 Zoo9 | SON SON SON SON SON SON SON SON SON SON |
| Field Sample I.D. Lab # Date Time Matrix # 17 17 17 17 17 17 17 17 17 17 17 17 17 | FIELD NOTES |
| | (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) |
| BH-1,5'(13'8GS) 4-8 09:00 5 2 X | X X X & Geas |
| 284-1,10'(18'895) X | |
| PH-1, 15 (21'853) 6918 | K |
| B451,20'(28'865) 0915 | |
| BH-125' (33165) 0925 | A B |
| BH-1,25' (33165) 0925 BH-1,30' (38165) 0935 BH-1,40' (48' 1665) 0945 | X X |
| BH-1, 40(48' 895) 09 45 | |
| VBH-1, 50'(58' BG5) /000 x | |
| BH-1,60'(68' BG5) 1012 X | |
| 0 BH-1 70' (78' 565) V 1035 | |
| BH-1, 50'(58' BGS) 1000 X BH-1, 60'(68' BGS) 1012 X BH-1, 80'(78' 665) V 1035 X | |
| | |
| | |
| | |
| | |
| TOTAL | |
| RELIMINISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) 4/8/09 5:20 / / / / / / / / / / / / / / / / / / / | TURN AROUND TIME LABORATORY USE ONLY: |
| RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature) | RECEIVING TEMP: 1.0 THERM #: |
| RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature) | 2 DAY COSTODY SEALS - D BROKEN D INTACT X NOT USED |
| | OTHER D CARRIER BILL # |
| | HAND DELIVERED 4 02 9 455 |

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

| Local Compiler | | | |
|--|--|------|--------------------------|
| ient: <u>Larson</u> ; Associates | | | |
| ate/ Time: 04-08-09 C 1720 | | | |
| 329622 . | | | |
| nitials: AL | | | |
| .Sample Receipt | Checklist | | |
| , | | | Client Initials |
| 1 Temperature of container/ cooler? | (Yes) | No | 4.0 °C |
| 2 Shipping container in good condition? | (Yes) | No | |
| 3 Custody Seals intact on shipping container/ cooler? | Yes | No | (Not Present) |
| 4 Custody Seals intact on sample bottles/ container? | Yes | No | Not Present |
| 5 Chain of Custody present? | (Yes) | No | |
| 6 Sample instructions complete of Chain of Custody? | Q es ∣ | 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 |
| 110 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? | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 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 Docum | nentation | | |
| Contact: Contacted by: | | | Date/ Time: |
| December 2 | | • | |
| Regarding: | | | - |
| | | | |
| Corrective Action Taken: | | | |
| | | | |
| | | | |
| Check all that Apply: See attached e-mail/ fax | | | |
| Client understands and wou | • | | • |

Gracie Avalos

From:

Mark Larson [Mark@laenvironmental.com]

Sent:

Tuesday, April 14, 2009 9:00 AM

To:

Gracie Avalos

Cc:

Michelle Green

Subject: Re: Analytical Report #329622

Gracie,

Please run the 50' sample for chloride.

Thanks,

Mark J. Larson Sr. Project Manager / President 507 N. Marienfeld St., Ste. 202 Midland, Texas 79701 (432) 687-0901 (office) (432) 687-0456 (fax) (432) 556-8656 (cell) mark@laenvironmental.com



I am using the Free version of <u>SPAMfighter</u>. We are a community of 6 million users fighting spam. SPAMfighter has removed 3980 of my spam emails to date. The Professional version does not have this message.

Analytical Report 329622

for

Larson & Associates

Project Manager: Michelle Green

XTO Vacuum North 8-0164

13-APR-09





12600 West I-20 East Odessa, Texas 79765

Texas certification numbers: Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675 Miramar, FL E86349 Norcross(Atlanta), GA E87429

> South Carolina certification numbers: Norcross(Atlanta), GA 98015

> North Carolina certification numbers: Norcross(Atlanta), GA 483

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





13-APR-09

Project Manager: Michelle Green Larson & Associates

P.O. Box 50685 Midland, TX 79710

Reference: XENCO Report No: 329622

XTO Vacuum North 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 329622. 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. 329622 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 329622



Larson & Associates, Midland, TX

XTO Vacuum North

| Sample Id Matrix Date Collected Sample Depth Lab | Sample Id |
|--|-----------|
| BH-1,5' (13'BGS) S Apr-08-09 09:00 325 | 9622-001 |
| BH-1,10' (18'BGS) S Apr-08-09 09:05 329 | 9622-002 |
| BH-1,15' (23'BGS) S Apr-08-09 09:10 325 | 9622-003 |
| BH-1,20' (28'BGS) S Apr-08-09 09:15 325 | 9622-004 |
| BH-1,25' (33'BGS) S Apr-08-09 09:25 325 | 9622-005 |
| BH-1,30' (38'BGS) S Apr-08-09 09:35 325 | 9622-006 |
| BH-1,40' (48'BGS) S Apr-08-09 09:45 32' | 9622-007 |

Project Id: 8-0164

Contact: Michelle Green

Project Location:

Since 1990

Date Received in Lab: Wed Apr-08-09 05:20 pm

Report Date: 13-APR-09

Project Manager: Brent Barron, II

| | Lab Id: | 329622-0 | 001 | 329622-0 | 02 | 329622-0 | 003 | 329622-0 | 04 | 329622-0 | 005 | 329622-0 | 006 |
|------------------------------------|------------|-----------------|-------|-------------------|-------|-------------------|-------|-------------------|------|-------------------|-------|-------------------|-------|
| Aughinia Dagmentad | Field 1d: | BH-1,5' (13' | BGS) | BH-1,10' (18'BGS) | | BH-1,15' (23'BGS) | | BH-1,20' (28'BGS) | | BH-1,25' (33'BGS) | | BH-1,30' (38'BGS) | |
| Analysis Requested | Depth: | | | | | | | | | | | | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | , | SOIL | |
| | Sampled: | Apr-08-09 | 09:00 | Apr-08-09 (| 09:05 | Apr-08-09 (| 09:10 | Apr-08-09 (| 9:15 | Apr-08-09 (| 09:25 | Apr-08-09 (| 09:35 |
| Anions by EPA 300 | Extracted: | | | | | | | | | | | | |
| - , | Analyzed: | Apr-09-09 | 10:41 | Apr-09-09 10:41 | | Арт-09-09 10:41 | | Apr-09-09 10:41 | | Apr-09-09 10:41 | | Apr-09-09 10:41 | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 2370 | 55.3 | 111 | 10.7 | 77.8 | 10.4 | 428 | 10.7 | 2190 | 53.4 | 1720 | 26.3 |
| Percent Moisture | Extracted: | | | | | | | | 1 | | | | |
| | Analyzed: | Apr-09-09 08:45 | | Apr-09-09 08:45 | | Apr-09-09 08:45 | | Apr-09-09 08:45 | | Apr-09-09 08:45 | | Apr-09-09 08:45 | |
| | Units/RL: | % | RL | % | RL | % | RL | % | RL | % | RL | % | RL |
| Percent Moisture | | 9.54 | 1.00 | 6.73 | 1.00 | 4,17 | 1.00 | 6.35 | 1.00 | 6.30 | 1.00 | 5.09 | 1.00 |
| TPH By SW8015 Mod | Extracted: | Apr-10-09 | 16:35 | Apr-10-09 1 | 16:35 | Apr-10-09 1 | 16:35 | Арг-10-09 | 6:35 | | | | |
| y = (10012 1110 u | Analyzed: | Apr-11-09 | 12:45 | Apr-11-09 I | 13:10 | Apr-11-09 1 | 13:35 | Apr-11-09 | 4:00 | | | | |
| | Units/RL: | mg/kg | RL | mg/kg | RL. | mg/kg | RL | mg/kg | RL | | | | |
| C6-C12 Gasoline Range Hydrocarbons | | ND | 16.6 | ND | 16.1 | ND | 15.7 | ND | 16.0 | | | | |
| C12-C28 Diesel Range Hydrocarbons | | 16.9 | 16.6 | 17.7 | 16.1 | 16.5 | 15.7 | ND | 16.0 | | | | |
| C28-C35 Oil Range Hydrocarbons | | ND | 16.6 | ND | 16.1 | ND | 15.7 | ND | 16.0 | | | | · |
| Total TPH | | 16.9 | 16.6 | 17.7 | 16.1 | 16.5 | 15.7 | ND | 16.0 | | | | |
| TPH by EPA 418.1 | Extracted: | | | | | | | | | | | | |
| • | Analyzed: | Арг-09-09 | 14:32 | Apr-09-09 1 | 14:32 | Арг-09-09 1 | 14:32 | Apr-09-09 | 4:32 | | | | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | <u></u> | | , | |
| TPH, Total Petroleum Hydrocarbons | | ND | 11.1 | ND | 10.7 | ND | 10.4 | ND | 10.7 | | | | |

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

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

Brent Barron Odessa Laboratory Director Project Name. ATO vacaum. with

Project Id: 8-0164

Project Location:

Since 1990

Contact: Michelle Green

Date Received in Lab: Wed Apr-08-09 05:20 pm

Report Date: 13-APR-09

Project Manager: Brent Barron, II

| | | | | _ i toject inamagett | | |
|----------------------|------------|-------------------|---|----------------------|---|--|
| | Lab Id: | 329622-007 | | | | |
| Analysis Parasstad | Field Id: | BH-1,40' (48'BGS) | | | | |
| Analysis Requested | Depth: | | | | | |
| | Matrix: | SOIL | | | | |
| | Sampled: | Apr-08-09 09:45 | | | } | |
| Anions by EPA 300 | Extracted: | | · | | | |
| Timons by 111 11 but | Analyzed: | Apr-09-09 10:41 | | | | |
| | Units/RL: | mg/kg RL | | | | |
| Chloride | | 330 10.7 | | | | |
| Percent Moisture | Extracted: | | | | | |
| Total Montain | Analyzed: | Apr-09-09 08:45 | | | | |
| | Units/RL: | % RL | | | | |
| Percent Moisture | | 6.94 1.00 | | | | |



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.
- * Outside XENCO's scope of NELAC Accreditation.

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| (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 |
| | (281) 240-4200 (214) 902 0300 (210) 509-3334 (813) 620-2000 (305) 823-8500 (432) 563-1800 |



Form 2 - Surrogate Recoveries

Project Name: XTO Vacuum North

Work Orders: 329622,

Project ID: 8-0164

Lab Batch #: 755565

Sample: 528142-1-BKS / BKS

Batch:

Matrix: Solid

| Units: mg/kg Date Analyzed: 04/11/09 06:50 | SURROGATE RECOVERY STUDY | | | | | | | | |
|--|--------------------------|-----------------------|----------------|-------------------------|-------|--|--|--|--|
| TPH By SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | | | |
| Analytes | | | [D] | | | | | | |
| I-Chlorooctane | 99.6 | 100 | 100 | 70-135 | | | | | |
| o-Terphenyl | 45.2 | 50.0 | 90 | 70-135 | | | | | |

Lab Batch #: 755565

Sample: 528142-1-BSD / BSD

Batch: 1

Matrix: Solid

| Units: mg/kg Date Analyzed: 04/11/09 07:15 | SURROGATE RECOVERY STUDY | | | | | | | |
|--|--------------------------|-----------------------|----------------|-------------------------|-------|--|--|--|
| TPH By SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | | |
| Analytes | | | [D] | | | | | |
| 1-Chlorooctane | 99.4 | 100 | 99 | 70-135 | | | | |
| o-Terphenyl | 45.7 | 50.0 | 91 | 70-135 | | | | |

Lab Batch #: 755565

Sample: 528142-1-BLK/BLK

Batch:

Matrix: Solid

| Units: mg/kg | COVERY S | TUDY | | | | |
|----------------|---------------|------------------------|-----------------------|----------------|-------------------------|-------|
| ТРН | By SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | Analytes | | | [D] | | |
| 1-Chlorooctane | | 87.8 | 100 | 88 | 70-135 | |
| o-Terphenyl | | 50.2 | 50.0 | 100 | 70-135 | |

Lab Batch #: 755565

Sample: 329622-001 / SMP

Batch: 1

Matrix: Soil

| Units: mg/kg Date Analyzed: 04/11/09 12:45 SURROGATE RECOVERY STUDY | | | | | | | | |
|---|---------------|------------------------|-----------------------|----------------|-------------------------|-------|--|--|
| ТРН | By SW8015 Mod | Amount Found [A] | True Amount (B) | Recovery %R | Control Limits %R | Flags | | |
| | Analytes | | | [D] | | | | |
| 1-Chlorooctane | | 87.2 | 100 | 87 | 70-135 | | | |
| o-Terphenyl | | 49.7 | 50.0 | 99 | 70-135 | | | |

Lab Batch #: 755565

Sample: 329622-002 / SMP

Batch: 1

Matrix: Soil

| Units: mg/kg | TUDY | | | | | |
|-------------------|----------|------------------------|-----------------------|----------------|-------------------------|-------|
| TPH By SW8015 Mod | | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags |
| | Analytes | | | [D] | | |
| 1-Chlorooctane | | 85.6 | 100 | 86 | 70-135 | |
| o-Terphenyl | | 48.8 | 50.0 | 98 | 70-135 | |

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 * A / B

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

^{***} Poor recoveries due to dilution



Form 2 - Surrogate Recoveries

Project Name: XTO Vacuum North

Work Orders: 329622,

Project ID: 8-0164

Lab Batch #: 755565

Sample: 329622-003 / SMP

Batch:

Matrix: Soil

| Units: mg/kg Date Analyzed: 04/11/09 13:35 | SURROGATE RECOVERY STUDY | | | | | | | | |
|--|--------------------------|-----------------------|----------------|-------------------------|-------|--|--|--|--|
| TPH By SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | | | |
| Analytes | | , , | D | | | | | | |
| 1-Chlorooctane | 83.0 | 100 | 83 | 70-135 | | | | | |
| o-Terphenyl | 47.1 | 50.0 | 94 | 70-135 | | | | | |

Lab Batch #: 755565

Sample: 329622-004 / SMP

Batch: 1

Matrix: Soil

| Units: mg/kg Date Analyzed: 04/11/09 14:00 SURROGATE RECOVERY STUDY | | | | | | | | |
|---|---------------|------------------------|-----------------------|----------------|-------------------------|-------|--|--|
| ТРН | By SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | |
| | Analytes | | | {D | | | | |
| 1-Chlorooctane | | 85.5 | 100 | 86 | 70-135 | | | |
| o-Terphenyl | | 48.7 | 50.0 | 97 | 70-135 | | | |

Lab Batch #: 755565

Sample: 329622-001 S / MS

Batch:

Matrix: Soil

| Units: mg/kg Date Analyzed: 04/11/09 16:52 | SURROGATE RECOVERY STUDY | | | | | | | | |
|--|--------------------------|-----------------------|----------------|-------------------|-------|--|--|--|--|
| TPH By SW8015 Mod | Amount Found [A] | True Amount [B] | Recovery %R | Control Limits %R | Flags | | | | |
| Analytes | | 1-1 | [D] | | | | | | |
| 1-Chlorooctane | 102 | 100 | 102 | 70-135 | | | | | |
| o-Terphenyl | 46.5 | 50.0 | 93 | 70-135 | • | | | | |

Lab Batch #: 755565

Sample: 329622-001 SD / MSD

Batch:

Matrix: Soil

| Units: mg/kg Date Ana | llyzed: 04/11/09 17:17 | SURROGATE RECOVERY STUDY | | | | | | | |
|-------------------------|------------------------|--------------------------|-----------------------|-----------------------|-------------------------|-------|--|--|--|
| TPH By SW8015 Analytes | Mod | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags | | | |
| 1-Chlorooctane | | 104 | 100 | 104 | 70-135 | | | | |
| o-Terphenyl | | 47.4 | 50.0 | 95 | 70-135 | | | | |

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

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution Surrogate Recovery [D] = 100 * A / B



Blank Spike Recovery



Project Name: XTO Vacuum North

Work Order #: 329622

Project ID:

8-0164

Lab Batch #: 755399

Sample: 755399-1-BKS

Matrix: Solid

Date Analyzed: 04/09/2009

Departing Uniter

Date Prepared: 04/09/2009

Analyst: LATCOR

| Reporting Units: mg/kg | atch #: | BLANK /BLANK SPIKE RECOVERY STUDY | | | | ועטו |
|------------------------|------------------------|-----------------------------------|--------------------------|----------------------|-------------------------|-------|
| Anions by EPA 300 | Blank Result [A] | Spike Added | Blank Spike Result | Blank Spike %R | Control Limits %R | Flags |
| Analytes | [A] |] [B] | (C) | [D] | /6 K | |
| Chloride | ND | 10.0 | 10.6 | 106 | 80-120 | |



BS/BSD Recoveries



Project Name: XTO Vacuum North

Work Order #: 329622

Analyst: BEV

Date Prepared: 04/09/2009

Project ID: 8-0164

Date Analyzed: 04/09/2009

Matrix: Solid

Lab Batch fD: 755401

Sample: 755401-1-BKS

Batch #: 1

| Units: mg/kg | | BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY | | | | | | | | | |
|-----------------------------------|-------------------------------|---|--------------------------|----------------------|----------------|-----------------------------|------------------------|----------|-------------------------|---------------------|------|
| TPH by EPA 418.1 | 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 | 1 1 | ĮΒĮ | [C] | [D] | [E] | Result [F] | JG) | | } | 1 | |
| TPH, Total Petroleum Hydrocarbons | ND | 2500 | 2180 | 87 | 2500 | 2210 | 88 | 1 | 65-135 | 35 | |

Analyst: BHW

Date Prepared: 04/10/2009

Date Analyzed: 04/11/2009

Lab Batch ID: 755565

Sample: 528142-1-BKS

Batch #: 1

Matrix: Solid

| Units: mg/kg | BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY | | | | | | | | | | |
|------------------------------------|---|-----------------------|---------------------------------|----------------------------|-----------------------|---|-------------------------------|----------|-------------------------|---------------------------|------|
| TPH By SW8015 Mod Analytes | Blank Sample Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R D | Spike Added [E] | Blank Spike Duplicate Result [F] | Bik, Spk Dup, %R [G] | RPÐ % | Control Limits %R | Control Limits %RPD | Flag |
| C6-C12 Gasoline Range Hydrocarbons | ND | 1000 | 995 | 100 | 1000 | 980 | 98 | 2 | 70-135 | 35 | |
| C12-C28 Diesel Range Hydrocarbons | ND | 1000 | 950 | 95 | 1000 | 937 | 94 | 1 | 70-135 | 35 | |



Form 3 - MS Recoveries

Project Name: XTO Vacuum North



Vork Order #: 329622

Lab Batch #: 755399

QC- Sample ID: 329622-001 S

Date Analyzed: 04/09/2009

04/09/2009 Date Prepared:

Project ID: 8-0164

Analyst: LATCOR

Batch #:

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 |
| hloride | 2370 | 1110 | 3590 | 110 | 80-120 | |



rurm 5 - MS / MSD Recoveries

Project Name: XTO Vacuum North

Work Order #: 329622

Project ID: 8-0164

Lab Batch ID: 755401

QC- Sample ID: 329622-001 S

Batch #:

Matrix: Soil

Date Analyzed: 04/09/2009

Date Prepared: 04/09/2009

Analyst: BEV

Reporting Unit

| Reporting Units: mg/kg | MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY | | | | | | | | | | |
|-----------------------------------|--|--------------|-------------------------|----------|--------------|--|----------------------|----------|-------------------------|---------------------------|------|
| TPH by EPA 418.1 | Parent Sample Result | Spike | Spiked Sample Result | Sample | Spike | Duplicate Spiked Sample Result [F] | Spiked Dup. %R | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| Analytes | [A] | Added [B] | C | %R D | Added [E] | Kesuit [F] | G | 76 | /0 K | 76KFD | |
| TPH, Total Petroleum Hydrocarbons | ND | 2760 | 2510 | 91 | 2760 | 2500 | 91 | 0 | 65-135 | 35 | |

Lab Batch ID: 755565

QC- Sample ID: 329622-001 S

Batch #:

Matrix: Soil

Date Analyzed: 04/11/2009

Date Prepared: 04/10/2009

Analyst:

BHW

Reporting

| Reporting Units: mg/kg | | MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY | | | | | | | | | |
|------------------------------------|----------------------------|--|-------------------------|-----------|--------------|----------------------------|----------------------|----------|-------------------------|---------------------------|------|
| TPH By SW8015 Mod | Parent Sample Result | Spike | Spiked Sample Result | Sample | Spike | Duplicate Spiked Sample | Spiked Dup. %R | RPD % | Control Limits %R | Control Limits %RPD | Flag |
| Analytes | [A] | Added [B] | [C] | %R [D] | Added [E] | Result F | [G] | 70 | 76K | 70KFD | |
| C6-C12 Gasoline Range Hydrocarbons | ND | 1110 | 1110 | 100 | 1110 | 1120 | 101 | 1 | 70-135 | 35 | |
| C12-C28 Diesel Range Hydrocarbons | 16.9 | 1110 | 1060 | 94 | 1110 | 1070 | 95 | 1 | 70-135 | 35 | |



Sample Duplicate Recovery

Project Name: XTO Vacuum North

Work Order #: 329622

Lab Batch #: 755399 Date Analyzed: 04/09/2009

QC- Sample ID: 329622-001 D

Date Prepared:

Project ID: 8-0164

04/09/2009 Analyst: LATCOR

Batch #:

Matrix: Soil

| Reporting Units: mg/kg | SAMPLE / | SAMPLE I | DUPLICATE RECO | VERY |
|------------------------|---------------|----------|----------------|------|
| Anions by EPA 300 | Parent Sample | Sample | Control | |

| Anions by EPA 300 Analyte | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
|----------------------------|--------------------------------|--------------------------------------|-----|---------------------------|------|
| Chloride | 2370 | 2320 | 2 | 20 | |

Lab Batch #: 755304

Date Analyzed: 04/09/2009

Date Prepared: 04/09/2009 Analyst: BEV

QC- Sample ID: 329619-001 D

Batch #:

Matrix: Soil

| Reporting Units: % | SAMPLE / | SAMPLE D | DUPLICA | ATE RECO | OVERY |
|---------------------------|--------------------------------|-------------------------------------|---------|---------------------------|-------|
| Percent Moisture Analyte | Parent Sample Result [A] | Sample Duplicate Result B | RPD | Control Limits %RPD | Flag |
| Analyte | | | | | |
| Percent Moisture | 8.51 | 8.67 | 2 | 20 | |

CHAIN-OF-CUSTODY

| | | | CHAIN-OF-COOLODT |
|--|---|---|--|
| Aarson & ssociates, Inc. | 507 N. Marienfeld, Ste. 200 | DATE: <u>4-8-09</u> PO#: | PAGE OF U LAB WORK ORDER #: 329622 |
| I SSOCIOTES, INC. Environmental Consultants | | | |
| Data Reported to: MICHELLE GREET | 432-687-0901 | LAI PROJECT #: 8-01 | NAME: YTO VACUUM NORTH 64 COLLECTOR: MITRB |
| TRRP report? S=SOIL P≈PAINT | | //0/// | 10/21/01/20/12/1/01/1/ |
| Tyes TNo W=WATER SL=SLUDGE | PRESERVATION | | \$}\$ \$ \$\\$\\$\\$\ \ \$\\\\\\\\\\\\\\\\\\\\ |
| TIME ZONE: Time zone/State: | ainers NaOH C | | |
| 11/4 | ainer ainer |]\\\\$\\\\$\\\\$\\\\$\\\\$\\\\\\\\\\\\\\\\\ | |
| MST 2009 | Containers 2 | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | \\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\\ |
| Field Sample 1.D. Lab # Date Time Matrix | # of Containers HCI HNO ₃ H ₂ SO, ^C J NaOH ICE UNPRESERVED | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | S S S S S S S S S S S S S S S S S S S |
| 8H-1,5'(13'BGS) 4-8 09:40 5 | 2 X X | XX | X Geas |
| 0784-1.10(18'855) . 0905 | P X X | XX | |
| 0.04.1, 15(23.862) 6919 | X K | KIX. | |
| MBH1,20'(28'855) 095 | XXX | UX | |
| OF BH-125' (33.055) 09.25 | | | X & |
| 0 BH-(30'(388GS) - 0935 | 1 2 | | X |
| BH-1, 40'(48' 665) 09 45 | | | X |
| O'BH-1, 50' (58' BGS) 1000 | 1 1 | | , X |
| 0 BH-1,60'(68' BGS) 1012 | | | X X |
| 10 84-1 70' (78' 865) 1035 | X | | |
| 0184-1, 10'(18'BGS) 0905 0184-1, 15'(28'BGS) 6918 0184-1, 15'(28'BGS) 0915 0184-1, 20'(28'BGS) 0925 0184-1, 30'(38BGS) 0935 0184-1, 40'(48'BGS) 0945 0184-1, 40'(68'BGS) 1000 0184-1, 50'(58'BGS) 1000 | | | X V |
| | | | |
| | | | |
| | | | |
| | | | |
| TOTAL | | | |
| RELINGUISHED BY:(Signature) DATE/TIME R. 4/8/09 5:20 P | | TURN AROUND TIME | LABORATORY USE ONLY: |
| | ECEIVED BY: (Signature) | 1 DAY 🗇 | RECEIVING TEMP: 41.0 THERM #: |
| RELINQUISHED 8Y:(Signature) DATE/TIME R | ECEIVED BY: (Signature) | 2 DAY 🗓 | CUSTODY SEALS - D BROKEN D INTACT NOT USED |
| | | OTHER Ú | CARRIER BILL # |
| | <u></u> | | HAND DELIVERED 4 02 9 1055 |

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

| 1D#: 32962 | Z | | | | |
|------------------------------|--------------------------------|-----------|----|--------------------------|--------------|
| ials: A·L | | | | | |
| | Sample Receipt | Checklist | | Clie | ent Initials |
| Temperature of container/ | cooler? | (Yes) | No | 4.0 °C | |
| Shipping container in good | | (Yes) | No | | |
| | nipping container/ cooler? | Yes | No | (Not Present) | |
| | ample bottles/ container? | Yes | No | Not Present> | |
| 5 Chain of Custody present | · | (Yes) | No | | |
| | lete of Chain of Custody? | ¢Yes> | No | | |
| | when relinquished/ received? | (Yes) | No | | |
| 8 Chain of Custody agrees | | (Yes) | No | ID written on Cont./ Lid | |
| 9 Container label(s) legible | | (Yes) | No | Not Applicable | |
| | s agree with Chain of Custody? | (Yes) | No | | |
| 11 Containers supplied by E | LOT? | (Yes) | No | | |
| 12 Samples in proper contain | ner/ bottle? | (Yes) | No | See Below | |
| 13 Samples properly presen | ved? | (Yes) | No | See Below | _ |
| 14 Sample bottles intact? | <u> </u> | Y-96-> | No | | ; |
| 15 Preservations document | ed on Chain of Custody? | (Yes> | No | | |
| 16 Containers documented | on Chain of Custody? | Yes | No | | |
| 17 Sufficient sample amoun | t for indicated test(s)? | Yes- | No | See Below | |
| 18 All samples received with | nin 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 | |
| Contact: | Variance Docu Contacted by: | | | Date/ Time: | |
| Regarding: | | | | | |
| Corrective Action Taken: | | | | · | |
| | | | | | |

Analytical Report 331806

for

Larson & Associates

Project Manager: Michelle Green

XTO-North Vacuum 8-0164

07-MAY-09





12600 West I-20 East Odessa, Texas 79765

Texas certification numbers: Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675 Miramar, FL E86349 Norcross(Atlanta), GA E87429

> South Carolina certification numbers: Norcross(Atlanta), GA 98015

> North Carolina certification numbers: Norcross(Atlanta), GA 483

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





Project Manager: Michelle Green

Larson & Associates P.O. Box 50685 Midland, TX 79710

Reference: XENCO Report No: 331806

XTO-North Vacuum

Project Address: North Water Station

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 331806. 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. 331806 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.

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



Sample Cross Reference 331806



Larson & Associates, Midland, TX XTO-North Vacuum

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|-----------------|--------------|---------------|
| SS # 1 | S | May-04-09 11:00 | | 331806-001 |
| SS # 2 | S | May-04-09 11:15 | | 331806-002 |

Project Id: 8-0164

Project Nar. TCh V

m

Date Received in Lab: Wed May-06-09 09:40 am

Report Date: 07-MAY-09

Project Location: North Water Station

Contact: Michelle Green

Project Manager: Brent Barron, II

| | | | | 110jeet Milliagert and Milliagert an | |
|--------------------|------------|-----------------|-----------------|--|---|
| | Lab Id: | 331806-001 | 331806-002 | | |
| Analysis Requested | Field Id: | SS # 1 | SS # 2 | | |
| Analysis Requesien | Depth: | | · | | |
| | Matrix: | SOIL | SOIL | | |
| | Sampled: | May-04-09 11:00 | May-04-09 11:15 | | |
| Anions by EPA 300 | Extracted: | | | | |
|] | Analyzed: | May-06-09 10:25 | May-06-09 10:25 | | |
| | Units/RL: | mg/kg RL | mg/kg RL | | _ |
| Chloride | | 48.8 10.4 | 11.4 5.17 | | |
| Percent Moisture | Extracted: | | | | |
| | Analyzed: | May-07-09 08:59 | May-07-09 08:59 | | |
| | Units/RL: | % RL | % RL | | |
| Percent Moisture | | 4.03 1.00 | 3.21 1.00 | | |



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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| | Pnone | rax |
|---|----------------|----------------|
| 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 |



Blank Spike Recovery



Project Name: XTO-North Vacuum

Work Order #: 331806

Project ID:

8-0164

Lab Batch #: 758095

Sample: 758095-1-BKS

Matrix: Solid

Date Analyzed: 05/06/2009

Date Prepared: 05/06/2009

Analyst: LATCOR

| Reporting Units: mg/kg | Batch #: 1 | BLANK/BLANK SPIKE RECOVERY STUDY | | | | |
|------------------------|------------------------|----------------------------------|--------------------------|----------------------|-------------------------|-------|
| Anions by EPA 300 | Blank Result [A] | Spike Added [B] | Blank Spike Result | Blank Spike %R | Control Limits %R | Flags |
| Analytes | 104 | (2) | [C] | [D] | | |
| Chloride | ND | 10.0 | 9.06 | 91 | 80-120 | |

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



Form 3 - MS Recoveries

Project Name: XTO-North Vacuum



Vork Order #: 331806

Lab Batch #: 758095

Date Analyzed: 05/06/2009

Date Prepared:

05/06/2009

1230

2020

Project ID: 8-0164

Analyst: LATCOR

80-120

QC-Sample ID: 331800-001 S

Chloride

Batch #:

872

Matrix: Soil

| Reporting Units: mg/kg | MATE | 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] | , , | . , | | | | |

Il Results are based on MDL and Validated for QC Purposes

atrix Spike Percent Recovery [D] = 100*(C-A)/Bstative Percent Difference [E] = 200*(C-A)/(C+B)



Sample Duplicate Recovery

Project Name: XTO-North Vacuum

Work Order #: 331806

Lab Batch #: 758095

QC-Sample ID: 331800-001 D

Date Analyzed: 05/06/2009

Date Prepared:

05/06/2009

Project ID: 8-0164 Analyst: LATCOR

Batch #:

Matrix: Soil

| Reporting Units: mg/kg | SAMPLE / | SAMPLE / SAMPLE DUPLICATE RECOVERY | | | | |
|----------------------------|--------------------------------|--------------------------------------|-----|---------------------------|------|--|
| Anions by EPA 300 Analyte | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag | |
| Chloride | 872 | 851 | 2 | 20 | | |

Lab Batch #: 758121

Date Analyzed: 05/07/2009

Date Prepared: 05/07/2009

Analyst: BEV

QC- Sample ID: 331800-001 D

Percent Moisture

Analyte

Batch #:

Matrix: Soil

Reporting Units: %

Percent Moisture

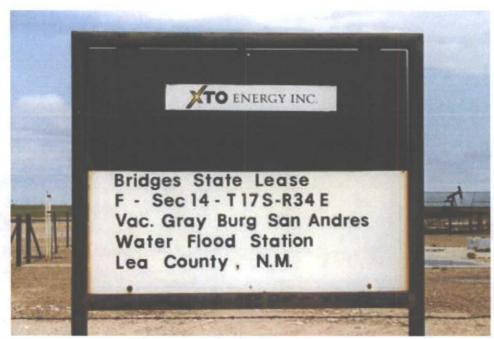
| SAMPLE/SAMPLE DUPLICATE RECOVERY | | | | | | | | |
|----------------------------------|--------------------------------------|-----|---------------------------|------|--|--|--|--|
| Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag | | | | |
| 18.4 | 19.6 | 6 | 20 | | | | | |

CHAIN-OF-CUSTODY DATE: 5-6-09 PAGE___\ OF [A arson & ssociates, Inc. Environmental Consultants 507 N. Marienfeld, Ste. 200 PO#: LAB WORK ORDER #: PROJECT LOCATION OR NAME: XTO - NO/th Vacuum North Wites Midland, TX 79701 Data Reported to: Michelle Green 432-687-0901 LAI PROJECT #: 8-0164 COLLECTOR: RB S=SOIL P=PAINT TRRP report? **PRESERVATION** W=WATER SL=SLUDGE ☐ Yes X No A=AIR OT=OTHER NaOH 🖸 TIME ZONE: UNPRESERVED Time zone/State: MST ø H,SO, 331800 HNO Field FIELD NOTES Sample I.D. Lab# Date Time .Matrix 5-4-09 11:00 S Chloride 300 0/58 # D 11.15 -TÓTAL RENNOUISHED BY (Signature DATE TIME RECEIVED BY: /(Signally) 9/6/09 TURN AROUND TIME LABORATORY USE ONLY: 9:40 NORMADA RECEIVING TEMP: 21.5 THERM #: DATE/TIME RECEIVED BY: (Signature) RELINQUISHED BY:(Signature) 1 DAY 🗓 CUSTODY SEALS - D BROKEN D INTACT NOT USED 2 DAY RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature) CARRIER BILL # _____ OTHER [] HAND DELIVERED ZID lock Bag

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

| ient: | larson & Assoc. | | | | |
|----------------|---|---------------------------------------|-----------|---|-------------|
| ite/ Time: | 5 6 09 - 9:40 | * . | | • | |
| - .b ID#: | 331806 | | | | |
| itials: | aL | | | · | |
| _ | | | | | |
| | Sample Receipt | Checklist | | • | |
| | | | | Clien | t Initials |
| 1 Temperati | ure of container/ cooler? | Yes | No | 21.5 °C | |
| | container in good condition? | (Yes) | No | | |
| 3 Custody S | Seals intact on shipping container/ cooler? | Yes | No | (Not Present) | |
| 4 Custody S | Seals intact on sample bottles/ container? | Yes | No | Not Present | |
| 5 Chain of 0 | Custody present? | (Yes) | No | | |
| 6 Sample in | astructions complete of Chain of Custody? | (Yes) | No | | |
| 7 Chain of 0 | Custody signed when relinquished/ received? | (Yes.) | No | | |
| | Custody agrees with sample label(s)? | Yes | No | ID Written on Coke Lid | |
| | r label(s) legible and intact? | Yes | No | (Not Applicable) | |
| | matrix/ properties agree with Chain of Custody? | (Yes) | No | | |
| | ers supplied by ELOT? | Yes | (NO) | | |
| | in proper container/ bottle? | Yes | No | See Below | |
| | properly preserved? | (Yes) | No | See Below | |
| | bottles intact? | (Yes) | No | , | |
| | ations documented on Chain of Custody? | (Ýes | No | | |
| | ers documented on Chain of Custody? | Yes | No | | |
| | it sample amount for indicated test(s)? | Yes | No | See Below | |
| | ples received within sufficient hold time? | (Yes) | No | See Below | $\neg \neg$ |
| | ract of sample(s)? | Yes | No | ∠Not-Applicable | |
| | mples have zero headspace? | Yes | No | <not-applicable< td=""><td>\dashv</td></not-applicable<> | \dashv |
| | Variance Docu | mentation | : | | |
| Contact: | Contacted by: | · · · · · · · · · · · · · · · · · · · | <u>.</u> | Date/ Time: | |
| Regarding: | | | | | |
| regarding, | | | ., | | |
| | | <u> </u> | <u></u> | | |
| Corrective Act | tion Taken; | | . , | , | |
| | | | | | |
| | • | • | | | |
| Chask all that | t Apply: See attached e-mail/ fax | , | | , | |
| Check all that | Client understands and wou | ıld like to pro | ceed with | analysis | |
| 2 | Cooling process had begun | , | • | | |
| • | | onorny and | ogniping | OTOM: | |
| | | | | | |

XTO Energy, Inc. North Vacuum Abo Lease - North Water Station Pit Closure



Facility Sign



Permanent Pit Prior to Closure Activities



Pit Closure Following Concrete Removal



Another View of Pit Closure Following Concrete Removal



Pit Prepared for Liner Installation



Seaming Liner for Installation



Liner Being Placed into Pit



Backfilling Excavation

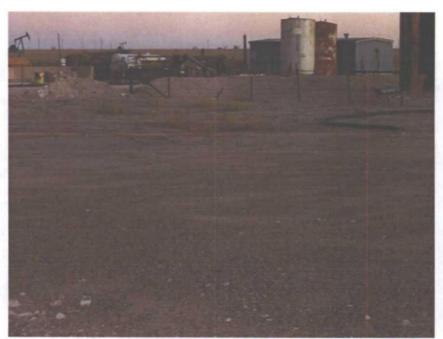


Terraforming Excavation



Growth on Site

Page 5 of 7



Addendum view of closed pit



Addendum view of closed pit



Addendum view of closed pit



Addendum view of closed pit





October 9, 2009

Mr. Brad A. Jones, Environmental Engineer New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

RE:

Two Final Closure Reports, XTO Energy, Inc. North Vacuum Unit, North-Water-Station and Vacuum Unit, South Water Station, Lea County, New Mexico

Dear Mr. Jones:

Please find enclosed two Final Closure Reports, one for each of the above referenced sites.

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

Sincerely,

LARSON & ASSOCIATES, INC.

William D. Green, PG No. 136

Texas Licensed Professional Geologist

wgreen@laenvironmental.com

Enclosure

Two Final Closure Reports

CC

Mr. Larry Johnson, NM Oil Conservation Division, Hobbs

Mr. Patrick Lyons, NM State Land Office, Santa Fe

Mr. Dudley McMinn, XTO Energy, Midland Mr. Jerry Parker, XTO Energy, SE New Mexico

Final Closure Report

XTO Energy, Inc.
North Vacuum Abo Unit, North Water Station
Unit F (SE/4, NW/4), Section 14, T175, R34E
Lea County, NM

Project No. 8-0164

Prepared by:

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

October 9, 2009

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Appendix B Notification Letters

Appendix C Construction Debris Manifests

Appendix D Release Notification, C-141

Appendix E Remedial Investigation Documentation – Boring Log, Final C-141, Photodocumentation

Appendix F Contaminated Soil Manifests

1.0 Executive Summary

The following report documents the final closure of the permanent pit associated with the XTO Energy (XTO) North Vacuum Abo Unit North Water Station (Site) located in Lea County, New Mexico. The legal description of the Site is Unit F (SE/4, NW/4), Section 14, Township 17 South, Range 34 East (Figure 1). The geodetic location is N32° 50′ 08.7″, W103° 31′ 54.3″.

Closure activities consisted of notifications to the New Mexico Oil Conservation Division (OCD) and the landowner of record (New Mexico State Land Office), removal and disposal of concrete and soil, the collection of soil samples, OCD issuance of a remediation case number and the subsequent investigation, backfilling and closure of the former pit. 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. Jerry Parker

Address:

XTO Energy Inc., Permian Division - SE New Mexico

PO Box 700

Eunice, New Mexico 88231

Office: Cell: 575.394.2089 575.441.1628

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 has a geodetic location of N32° 50′ 08.7″, W103° 31′ 54.3″, and is located in rural Lea County about 13 miles west-southwest of Lovington, New Mexico. The approximately 1.6 acre Site consisted of five above-ground storage tanks, and a concrete-lined permanent pit with an approximate capacity of 3,300 barrels. The Facility is covered with crushed caliche rock and is flat to very gently sloping (Figures 2 and 3).

The Facility's siting criteria presented the following findings:

- Groundwater is about 110 feet below ground surface 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.
- A fresh water well is located within approximately 1000 horizontal feet of the Facility, however, no springs are located within 1000 horizontal feet of Facility.
- The Facility is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance.
- The Facility is not within 500 feet an area designated as wetlands.
- The Facility is not within an area overlying a subsurface mine.
- The Facility is not within an unstable area.
- The Facility is not within a 100-year flood plain.

3.2 Landowner and OCD notifications

A pit closure plan was submitted to the OCD in Santa Fe on December 23, 2008, and signed by the OCD February 4, 2009. A copy of the signed C-144 closure plan is provided in Appendix A. Upon approval of the 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. Copies of the notification letters are provided in Appendix B.

3.3 Pit Closure Activities

On March 9, 2009, XTO removed ancillary equipment (i.e. fencing, netting, etc.) for salvage or scrap metal. A track-mounted hammer hoe was used to remove the concrete lining from the pit. Approximately 240 barrels of tank bottoms and 272 cubic yards of concrete and excavated soil were disposed at Controlled Recovery, Inc. (CRI, OCD Permit R9166). Appendix C contains waste manifests for this project.

On March 11 – 12, 2009, Larson & Associates, Inc. (LAI) personnel collected 5-part composite soil samples from the bottom (1BC) and sidewalls (2NC, 3WC, 4EC and 5SC) of the pit excavation following removal of the concrete. Xenco Laboratories analyzed the samples for benzene, toluene, ethylbenzene, xylenes (BTEX) by method 8021B, total petroleum hydrocarbons (TPH) by method 418.1 and chloride by method 300.1.

No benzene or BTEX was reported above OCD limits (0.2 milligrams per kilogram [mg/Kg] for benzene and 50 mg/Kg for BTEX). TPH was detected above the OCD reporting limit (100 mg/kg) in the following composite samples:

- north wall (2NC) 344 mg/Kg,
- west wall (3WC) 3,200 mg/Kg,
- east wall (4EC) 973 mg/Kg, and
- south wall (5SC) 4,500 mg/Kg.

Chloride exceeded the OCD limit in all samples except 2NC (Table 1). An initial C-141 was submitted to the OCD District 1, Hobbs office (Appendix D) on March 17, 2009, and remediation activities were conducted. The OCD District 1 office issued remediation project number 1RP-09-3-2126.

3.4 Remedial Investigation

XTO delineated the extent of the TPH and excavated the impacted soils beginning March 17, 2009. Between March 19 and 23, 2009, LAI collected additional samples to confirm field delineation. On April 8, 2009, Scarborough Drilling, Inc. installed a soil boring near the bottom center of the pit excavation

Final Closure Report XTO Energy, Inc.

(Boring Log presented in Appendix E). Samples were collected using a jam tube sampler and analyzed for TPH (5, 10, 15 and 20 feet) using methods 418.1 and 8015. The laboratory analyzed all samples for chloride. No TPH was reported in the 418.1 samples above the method detection limits. The highest TPH (8015) concentration was 17.7 mg/Kg in the sample from 10 feet. Chloride decreased to 120 mg/Kg in the sample from 50 feet. Table 1 presents a summary of the laboratory analysis.

Based on the soil sample results, XTO requested approval from OCD District 1 to install a 20 mil thick high density polyethylene (HDPE) liner in the bottom of the pit and close the excavation according to the requirements of the closure plan approved by the OCD Santa Fe office. Approval was granted on April 28, 2009. Appendix E presents the initial and final C-141, and photo-documentation of liner installation. An additional 16 cubic yards of soil was removed from the excavation and disposed at CRI. The excavation was closed prior to the final C-141 expiration date (June 28, 2009). Manifests of contaminated soil disposal are presented in Appendix F.

4.0 Conclusion and Recommendation

Based on the documented activities performed in conformance with the permanent pit closure plan, LAI requests approval of final site closure for this Site.

Table 1 Soil Analytical Data Summary XTO Energy, Inc.

North Vacuum Abo Lease - North Water Station Unit F (SE/4, NW/4) Sec 14, T17S, R34E

Lea County, New Mexico

| Sample ID | Date | Status | Depth (Ft) | Benzene | Toluene | Ethyl | Total | Total BTEX | TPH | TPH | Chlorides |
|-----------------|-----------|-----------|---------------------------------------|---------------|----------|---------|---------|------------|--------|---------|-----------|
| Jampie ID | Date | Status | Deptil (7t) | - Jenzene | Totactic | benzene | Xylenes | | C6-C35 | 418.1 | |
| Reporting Level | : | | | 0.2 | | | | 50 | | 100 | 250 |
| 1BC | 3/12/2009 | In-Situ | 0 (7) | <0.0011 | 0.0034 | 0.0111 | 0.0163 | 0.0308 | | 1,470 | 947 |
| | 3/19/2009 | In-Situ | 1 (8) | < 0.0010 | <0.0020 | <0.0010 | <0.0010 | <0.0010 | | 708 | 1,150 |
| | 3/23/2009 | In-Situ | 5 (13) | | | | | | | | 943 |
| | 3/23/2009 | In-Situ | 10 (18) | | | | |] | | | 1,390 |
| | 3/23/2009 | In-Situ | 15 (23) | | | | | | | | 446 |
| | 4/2/2009 | In-Situ | 20 (28) | | | | | | | | 772 |
| 2NC | 3/11/2009 | In-Situ | 0-1 | <0.0011 | <0.0022 | <0.0011 | <0.0011 | <0.0011 | | 344 | 70.1 |
| 3WC | 3/12/2009 | Excavated | 0-1 | 0.0020 | 0.0090 | 0.0217 | 0.0329 | 0.0656 | | 3,200 | 349 |
| | 3/19/2009 | In-Situ | 2 - 5 | <0.0010 | <0.0020 | <0.0010 | 0.0036 | 0.0036 | | 4,320 | 419 |
| 4EC | 3/11/2009 | In-Situ | 0-1 | <0.0011 | <0.0021 | <0.0011 | 0.0024 | 0.0024 | | 973 | 337 |
| 5SC | 3/12/2009 | Excavated | 0-1 | <0.0011 | <0.0022 | 0.0039 | 0.0161 | 0.02 | | 4,500 | 445 |
| | 3/19/2009 | In-Situ | 2 - 5 | < 0.0010 | <0.0020 | 0.0017 | 0.0029 | 0.0046 | | 3,200 | 305 |
| Release Inves | tigation: | | | <u> </u> | | | | | | | |
| BH-1 | 4/8/2009 | | 5 (13) | | | | | | 16.9 | <11.1 | 2,370 |
| | 4/8/2009 | | 10 (18) | | | ; | | | 17.7 | <10.7 | 111 |
| | 4/8/2009 | | 15 (23) | | | | | | 16.5 | <10.4 | 78 |
| | 4/8/2009 | | 20 (28) | , | | | | ļ l | <16.0 | <10.7 | 428 |
| | 4/8/2009 | | 25 (33) | | | | | | | | 2,190 |
| | 4/8/2009 | | 30 (38) | | | | | | | | 1,720 |
| | 4/8/2009 | | 40 (48) | | | | | | | | 330 |
| | 4/8/2009 | | 50 (58) | | | | | | | | 120 |
| Replacement | Soil: | | · · · · · · · · · · · · · · · · · · · | | | | | • | " | 25 % | · |
| SS-1 | 5/4/2009 | | | | | | | | | | 48.8 |
| SS-2 | 5/4/2009 | | | | | | | | | | 11.4 |

Notes

RRAL - Recommended Remediation Action Level

BTEX analyzed via EPA SW Method 8021B.

Total Petroleum Hydrocarbons analyzed via EPA Method 418.1.

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

Chlorides analyzed via EPA Method 300.

Bold indicates the analyte was detected.

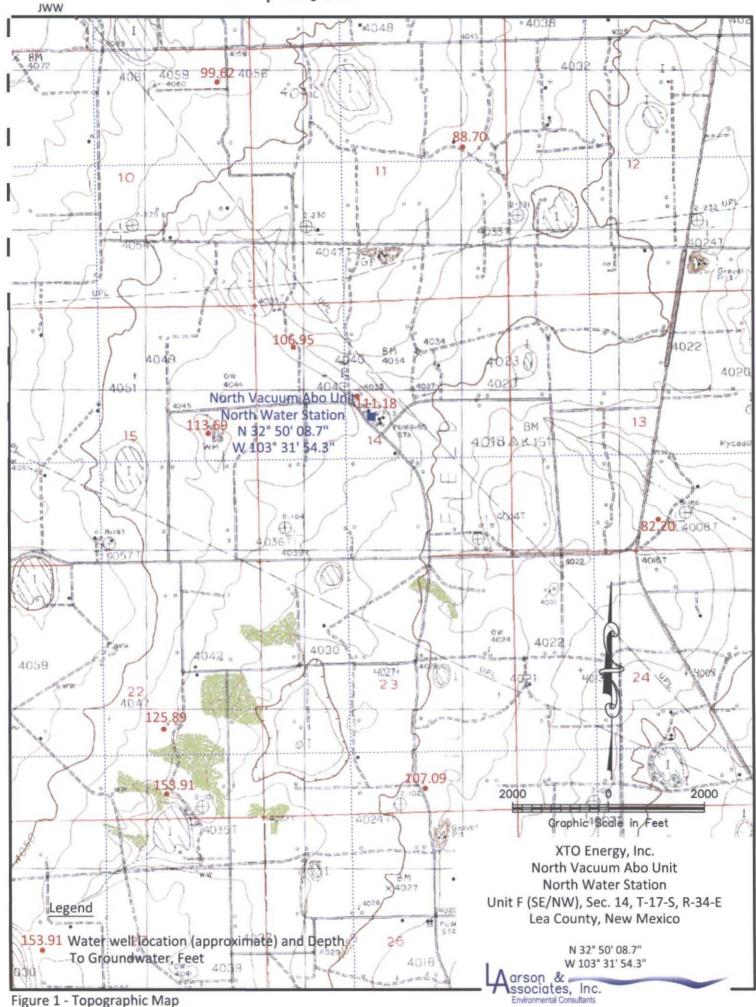
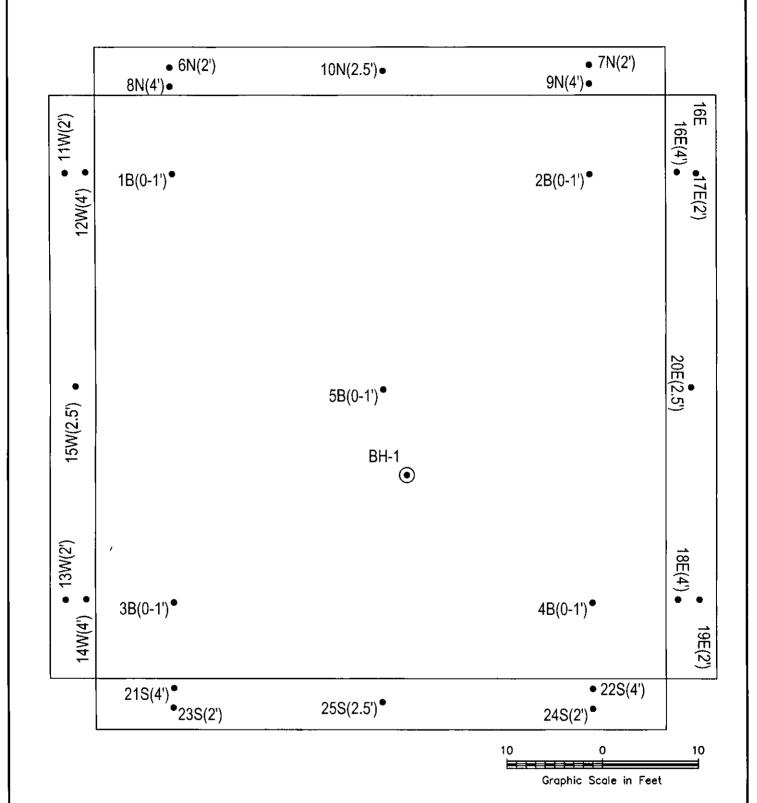




Figure 2 - Aerial

Figure 3 - Site Drawing



Legend

5B(0-1') - Soil Sample Location And Depth, Feet

- Soil Boring Location



XTO Energy, Inc. North Vacuum Abo Unit North Water Station Unit F (SE/NW), Sec. 14, T-17-S, R-34-E Lea County, New Mexico

> N 32° 50' 08.7" W 103° 31' 54.3"

Agrson & Sociates, Inc.

APD-A-

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 | |
|-----------|--|---|
| Propo | sed Alternative Method Permit or Closure Plan Application | į |
| f action: | Permit of a pit, closed-loop system, below-grade tank, or proposed alternative | n |

| 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 | | | | | | | | | |
| ase 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 ironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinates. | nces. | | | | | | | | |
| perator: XTO ENERGY, INC. OGRID #:5380 | _ | | | | | | | | |
| ddress: PERMIAN DIVISION - SE NEW MEXICO, P.O. BOX 700, EUNICE, NM 88231 | | | | | | | | | |
| acility or well name: NORTH VACUUM ABO UNIT NORTH WATER STATION / ABO WELL NO, 297 (NEAREST WELL) | | | | | | | | | |
| PI Number: <u>30-025-29607</u> OCD Permit Number: | | | | | | | | | |
| /L or Qtr/Qtr F Section 14 Township 17S Range 34E County: LEA | | | | | | | | | |
| enter of Proposed Design: Latitude 32° 50' 08.7" Longitude 103° 31' 54.3" NAD: 1927 🛛 19 | 83 | | | | | | | | |
| urface Owner: Federal X State Trivate Tribal Trust or Indian Allotment | | | | | | | | | |
| Pit: Subsection F or G of 19.15.17.11 NMAC Imporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness 6 inches LLDPE HDPE PVC Other CONCRETE String-Reinforced Volume: 3,300 bbl Dimensions: L 62' x W 60' x D 5' Closed-loop System: Subsection H of 19.15.17.11 NMAC Pre of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice tent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other Dressens: Welded Factory Other Dother Description | | | | | | | | |
| Below-grade tank: Subsection I of 19.15.17.11 NMAC | ļ | | | | | | | | |
| olume:bbl Type of fluid: | | | | | | | | | |
| nk Construction material: | | | | | | | | | |
| Secondary containment with leak detection [Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off | | | | | | | | | |
| Visible sidewalls and liner Visible sidewalls only Other | | | | | | | | | |
| ner type: Thicknessmil | | | | | | | | | |

| ij | Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration | n of approval. |
|----|---|--|
| | | |
| 4 | Encing: 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, he | ospital, |
| 1 | institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet | |
| | Alternate. Please specify | |
| L | | |
| • | 7. Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) | |
| 1 | Screen Netting Other | |
| • | Monthly inspections (If netting or screening is not physically feasible) | <u>, </u> |
| Į | Signs: Subsection C of 19.15.17.11 NMAC | |
| | 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers | |
| 1 | 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. | |
| Į | 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 |
| ļ | 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. | stable source |
| ı | material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appro | priate district |
| | office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry | <i>pprovat.</i> ing pads or |
| 13 | above-grade tanks associated with a closed-loop system. | |
| 1 | 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). | ☐ Yes ☐ No |
| | - Topographic map; Visual inspection (certification) of the proposed site | |
| | 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 |
| | Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. | ☐ Yes ☐ No |
| - | (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | □ NA |
| | Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock | Yes No |
| | 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 | |
| İ | Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance | Yes No |
| | adopted pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtained from the municipality | |
| 1 | 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. | |
| - | Page 2 of Communities Division Page 2 of (| <u>-</u> |

| - FEMA map |
|--|
| 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 and 19.15.17.13 NMAC |
| Previously Approved Design (attach copy of design) API Number: or Permit Number: |
| 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) |
| 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 H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC |
| 14. <u>Proposed Closure</u> : 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. | 1 |
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| ۱ | Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be at 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 | tached to the |
| ì | 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) | |
| l | Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC | |
| ļ | 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 | · |
| | 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 m facilities are required. | |
| | Disposal Facility Name: Disposal Facility Permit Number: | |
| 1 | Disposal Facility Name: Disposal Facility Permit Number: | |
| ļ | 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. Yes (If yes, please provide the information below) No | ice and operations? |
| 1 | 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 | ; |
| ار ارا | 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 provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district 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☐ 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 |
| 1 | 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 | X Yes No 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 X No |
| 1] | 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 |
| 1 | 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 | X 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 |
| 1 | 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 |
| ł | Within a 100-year floodplain FEMA map | ☐ Yes 🏻 No |
| | | nu Blanck 21. |
| | On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plants are attached. X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC | an. Please indicate, |
|] | 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 | <u> </u> |

| 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): Guy Haykus Title: Superintendent Signature: Date: December 23, 2008 e-mail address: William Haykus@xtoenergy.com Telephone: (432) 682-8873 70. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 2/4/22 Title: OCD Permit Number: 71. 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 free 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: Closure Method: | e attachment) B Date: 2/4/2 es and submitting the closure report. |
|--|---|
| 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): | e attachment) B Date: 2/4/22 es and submitting the closure report. |
| Name (Print): Guy Haykus Title: Superintendent Date: December 23, 2008 | e attachment) B Date: 2/4/22 es and submitting the closure report. |
| Date: | e attachment) Date: 2/24/32 es and submitting the closure report. |
| e-mail address: William Haykus@xtoenergy.com Telephone: (432) 682-8873 Telephone: (432) 682-8873 Closure Plan (only) OCD Conditions (see attachment) Approval Date: 2/4/2 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 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: Closure Method: | e attachment) B Date: 2/24/29 es and submitting the closure report. |
| OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) Approval Date: 2/4/8 Title: OCD Permit Number: 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: Closure Method: | e attachment) B Date: 2/24/29 es and submitting the closure report. |
| OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: OCD Permit Number: OCD Permit Number: 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 for 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: Closure Method: | B Date: 2/24/32 es and submitting the closure report. |
| Title: | es and submitting the closure report. |
| 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: Closure Method: | |
| 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: Closure Method: | |
| 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. | moval (Closed-loop systems only) |
| Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more two facilities were utilized. | Tanks or Haul-off Bins Only: isposed. Use attachment if more than |
| 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) \(\subseteq \text{No} \) | ure service and operations? |
| Required for Impacted areas which will not be used for future service and operations: Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique | |
| Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a chemark 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 Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude Longitude NAD: 1927 1983 | |

| Operator Closure Certification: I hereby certify that the information and attachments belief. I also certify that the closure complies with a | s submitted with this closure report is true, accurate and complete to the best of my knowledge and all applicable closure requirements and conditions specified in the approved closure plan. | _ |
|--|--|---|
| Name (Print): | Title: | |
| Signature: | Date; | |
| e-mail address: | Telephone: | |
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February 18, 2009

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

Re: Notice of Pit Closure

XTO Energy, Inc.

North Vacuum Abo Lease – North Water Station
Unit F (SE/4, NW/4), Section 14

Township 17 South, Range 34 East
Lea County, New Mexico

Dear Mr. Hill,

Pursuant to paragraph (3) of Subsection J of 19.15.17.13 NMAC, notice is hereby given to the New Mexico Oil Conservation Division (OCD) by XTO Energy, Inc. (XTO) of its intent to close a permanent pit at the North Vacuum Abo Lease, North Water Station (Facility) beginning on March 9, 2009. The Facility is located in Unit F (SE/4, NW/4), Section 14, Township 17 South, Range 34 East in Lea County, New Mexico. The latitude and longitude is 32° 50' 08.7" north and 103° 31' 54.3" west, respectively. The nearest well is the North Vacuum Abo Lease Well #297 with API #30-025-29607. The closure will be in accordance with a plan meeting the requirements of Paragraphs (1) through (7) of Subsection G of 19.15.17.11 NMAC that was approved by the OCD Environmental Bureau in Santa Fe, New Mexico, on February 4, 2009. Please contact myself at (432) 682-8873 or Mark Larson with Larson & Associates, Inc. at (432) 687-0901, if you have questions.

Sincerely,

XTO Energy, Inc.

Guy Haykus

Production Superintendent

Cc: Mark Larson/Larson & Associates, Inc.

DeeAnn Kemp/XTO Energy Inc/Regulatory and Production Mgr. - Midland

Kristy Ward/XTO Energy Inc/Regulatory Analyst - Midland



March 2, 2009

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

Re: Notice of Pit Closure
XTO Energy, Inc.
North Vacuum Abo Lease – North Water Station
Unit F (SE/4, NW/4), Section 14
Township 17 South, Range 34 East
Lea County, New Mexico

Dear Commissioner Lyons,

Pursuant to paragraph (1) of Subsection J of 19.15.17.13 NMAC, notice is hereby given to the New Mexico State Land Office (SLO), as surface owner of record, by XTO Energy, Inc. (XTO) of its intent to close a permanent pit located at the North Vacuum Abo Lease – North Water Station (Facility) beginning March 9, 2009. The Facility is located in Unit F (SE/4, NW/4), Section 14, Township 17 South, Range 34 East in Lea County, New Mexico. The latitude and longitude is 32° 50' 08.7" north and 103° 31' 54.3" west, respectively. The closure will be performed according to a plan meeting the requirements of Paragraphs (1) through (7) of Subsection G of 19.15.17.11 NMAC that was approved by the New Mexico Oil Conservation Division (OCD) on February 4, 2009. The closure plan may be viewed at the OCD District 1 office located in Hobbs, New Mexico or with the OCD Environmental Bureau in Santa Fe, New Mexico. Please contact myself at (432) 682-8873 or Mark Larson with Larson & Associates, Inc. at (432) 687-0901, if you have questions.

Sincerely,

XTO Energy, Inc.

Guy Haykus

Production Superintendent

Cc: Myra Meyers/SLO Hobbs District

Mark Larson/Larson & Associates, Inc.

DeeAnn Kemp/XTO Energy Inc/Regulatory and Production Mgr. - Midland

Kristy Ward/XTO Energy Inc/Regulatory Analyst - Midland

| Print your name and address on the reverse so that we can return the card to you. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the maliplece, or on the front if space permits. 1. Article Addressed to: W. Larry H. U. DIL Conservation Division 16.25 N. Frach Br. Hobbs , NM 88240 2. Article Number (Fransfer from 7007 0220 0002 5082 4221 10259-024-1) ENDER COMMETER 165 SECTION 2. Article Number (Fransfer from 7007 0220 0002 5082 4221 10259-024-1) ENDER COMMETER 165 SECTION 2. Article Number (Fransfer from 1000 1000 1000 1000 1000 1000 1000 10 | | A. Signature |
|---|--|---|
| **SENDER COMPLETE TILLS SECTION** **STATE Addressed to: **Article Number** Complete Rums 1, 2, and 3, Also complete Item 4 if YES, erier delivery address below: **Article Addressed to: **Mr. Larry H.U.** **DIL Conservation Division** Il 25 N. Franch Jr.* **Hobbs**, N.M. 88240* **District Number** Complete Rums 1, 2, and 3, Also complete Item 4 if Postricted Delivery address below: **Domestic Return Receipt to Merchand Programment of Delivery Receipt for Merchand Programment of Delivery Receipt for Merchand Programment of Delivery Receipt for Merchand Programment of Delivery Receipt for Merchand Programment Receipt for Merchand Receipt for Merchand Receipt Receipt for Merchand Receipt for Merchand Receipt Receipt Receipt for Merchand Receipt Receip | | X G Addresse |
| 1. Article Addressed to: Mr. Larry Hrtl. DIL Conservation Division IL25 N. French Jr. Hobbs, NM 88240 2. Article Number (Trainsfer from 7007 0220 0002 5082 4221 PS Form 3811, February 2004 2. Article Number Setticted Delivery is desired. Print your name and address on the reverse so that we can return the art to you. Attach this card to the back of the malpilece, or on the front if space permits. 1. Article Addressed to: Mr. Barrick Lyms, Commussioner New Mexica State Land office 3.0 Old Santa Fe Trail Santa Fe, NM 87501 3. Seryion Type (Printed Name) 1. Article Number (Transfer from sen 7007 0220 0002 5082 4224 B. Received by (Printed Name) 1. Article Addressed to: Mr. Barrick Lyms, Commussioner New Mexica State Land office 3. Seryion Type (Pagistered Return Receipt for Merchand Return Receipt to Merchand Return Receipt Return Rece | so that we can return the card to you. | B. Received by (Printed Name) C. Date of Deliver |
| Described Mail Comes Nation Receipt for Merchandle Registered Return Receipt for Merchandle Result Receipt for Merchandle Return Receipt for Merchandle Return Receipt for Merchandle Return Receipt Return Rec | Article Addressed to: | D. IZ DESIVORY EUCLISSES CHICKOTT HONT THORIT TO |
| Described Mail | DIL Conservation Division | |
| Complete Return Receipt for Merchanding Co.D.D. | 1625 N. French Dr. | 3. Service-Type |
| 4. Restricted Delivery? (Extra Fee) Yes 2. Article Number (Transfer from 7007 0220 0002 5082 422). PS Form \$811, February 2004 Domestic Return Receipt 102585-02-M-11 SENDER: COMPLETE THIS SECTION Concepted library 4 if Restricted Delivery is desired. Print your name and acdress on the reverse so that we can return the card to you. Attach this card to the back of the mallplece, or on the front if space permits. 1. Article Addressed to: N.M. 87501 3. Service Type Contract Humber (Transfer from sen 7007 0220 0002 5082 42).4 SENDER: COMPLETE THIS SECTION (A.) DETUCENT A. Signature A. Signa | Hobbs, NM 88240 | Certified Mall |
| PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1 PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1 SENDER: COMPLETE THIS SECTION COMPLETE THIS SECTION Complete Items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired. A Signeture A Agent A Agent A Signeture A Agent A Ag | | |
| PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1 | | |
| SENDER: COMPLETE THIS SECTION Complete Items 1, 2, and 3. Also complete Item 4 If Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. A signature A. Signature | 7.50 | |
| ■ Complete Items 1, 2, and 3, Also complete Items 4 if Restricted Delivery is desired. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mallplece, or on the front if space permits. 1. Article Addressed to: Mr. Ratnick Hyrns, Commussioner New Nexico State Land Office 310 Did Santa Fe Trail Santa Fe, NM 87501 3. Service Type □ Certified Mail □ Express Mail □ Registered □ Return Receipt tor Merchand □ Insured Mail □ Co.D. 4. Restricted Delivery? (Extra Fee) □ Yes □ Complete Items 1, 2, and 3, Also complete Item 4 if Restricted Delivery is desired. ■ Complete Items 1, 2, and 3, Also complete Item 4 if Restricted Delivery is desired. ■ Complete Items 1, 2, and 3, Also complete Item 4 if Restricted Delivery is desired. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mallplece, or on the front if space permits. 1. Article Addressed to: New Hayce Stak Land Office New Hayc | , | |
| ■ Complete Items 1, 2, and 3, Also complete Items 4 if Restricted Delivery is desired. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mallplece, or on the front if space permits. 1. Article Addressed to: Mr. Ratnick Hyrns, Commussioner New Nexico State Land Office 310 Did Santa Fe Trail Santa Fe, NM 87501 3. Service Type □ Certified Mail □ Express Mail □ Registered □ Return Receipt tor Merchand □ Insured Mail □ Co.D. 4. Restricted Delivery? (Extra Fee) □ Yes □ Complete Items 1, 2, and 3, Also complete Item 4 if Restricted Delivery is desired. ■ Complete Items 1, 2, and 3, Also complete Item 4 if Restricted Delivery is desired. ■ Complete Items 1, 2, and 3, Also complete Item 4 if Restricted Delivery is desired. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mallplece, or on the front if space permits. 1. Article Addressed to: New Hayce Stak Land Office New Hayc | | |
| ■ Complete Items 1, 2, and 3, Also complete Item 4 if Restricted Delivery is desired. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the malipiece, or on the front if space permits. 1. Article Addressed to: Mr. Ratnick Lyms, Commussioner New Nexico State Land Office 310 Did Santa Fe Trail Santa Fe, NM 87501 3. Service Type □ Conflict Mail □ Express Mail □ Express Mail □ Registered □ Return Receipt for Merchand □ Insured Mail □ Co.D. 4. Restricted Delivery? (Extra Fee) □ Yes PS Form 3811, February 2004 □ Domestic Return Receipt □ 102595-02-M-1 ■ Complete Items 1, 2, and 3, Also complete Item 4 if Restricted Delivery is desired. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the maliplece, or on the front if space permits. 1. Article Addressed to: New Heyaco Stak Land Office | | |
| Replication Address of the maliplece, or on the front if space permits. | SENDER: COMPLETE THIS SECTION | COMPLETE THIS SECTION ON DECIVERY |
| Address so that we can return the card to you. Attach this card to the back of the malipiece, or on the front if space permits. | Complete items 1, 2, and 3. Also complete | |
| So that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: Mr. Ratrick Lyms, Commuss: one. New Nexico State hard Office. 310 DId Santa Fe Trail Santa Fe, NM 87501 3. Service Type 1. Certified Mail Express Mail Registered Return Receipt for Merchand Rogistered Return Receipt for Merchand Restricted Delivery? (Extra Fee) Yes 2. Article Number (Transfer from sen 7007 0220 0002 5082 4214 PS Form 3811, February 2004 Domestic Return Receipt 102585-0246-1 SENDER: Complete items 1, 2, and 3, Also complete tem 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: New Huge State Land Office New Huge State Lan | | II V |
| 1. Article Addressed to: Mr. Patrick Lyms, Commissioner New Mexico State hand office 310 Old Santa Fe Trail Santa Fe, NM 87501 3. Service Type Continued Mail Express Mail Registered Return Receipt for Merchand Insured Mail C.O.D. 4. Restricted Delivery? (Extra Fee) Yes 2. Article Number (Transfer from sen 7007 0220 0002 5082 4214 PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1 SENDER: Complete Items 1, 2, and 3. Also complete tem 4 If Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mallplece, or on the front if space permits. 1. Article Addressed to: New Mexico State land Office Myre Musers 3. Service Type Control of State Agent Agent Agent Address Agent Address Agent Address Agent Address Agent Address Address Agent Address Agent Address Agent Address Agent Address Agent Address Agent Agent Address Agent Address Agent Address Agent Address Agent Address Agent Agent Address Agent so that we can return the card to you. Attach this card to the back of the mailpiece, | B. Received by (Printed Name) C. Date of Deliv |
| New Mexico State Land Office 310 Old Santa Fe Trail Santa Fe, NM 87501 3. Service Type Controlled Mall Express Mall Registered Return Receipt for Merchand Insured Mall C.O.D. 4. Restricted Delivery? (Extra Fee) Yes Sender: Complete Items 1, 2, and 3. Also complete Item 4 If Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the malliplece, or on the front if space permits. 1. Article Addressed to: New Mexico State Land Office Mayre Meyers State Land Office Mayre Meyers Associated Mall Express Mall Express Mall Express Mall Express Mall Express Mall | Article Addressed to: | If VES enter delivery address helpw: D No |
| Santa Fe, NM 87501 Santa Fe, NM 87501 | Mr. Patrick Lyons, Commissioner | |
| Santa Fe, NM 87501 Santa Fe, NM 87501 | New Mexica State Land Office | |
| Santa Fe, NM 87501 3. Service Type | 200 Md Conta Fe Track | |
| Insured Mail C.O.D. | Santa Fo NM 87501 | 1 |
| 2. Article Number (Transfer from sen 7007 0228 0002 5082 42],4 PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1 SENDER: COMPLETE LIFE SECTION Complete ftems 1, 2, and 3. Also complete ftem 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mallplace, or on the front if space permits. 1. Article Addressed to: New Meyers Stake Land Office Myra Mayers Jaba N. Grimes, Stc. D Habbs, NM 88240 3. Service Type CYCertified Mail Express Mail | JUNICIE | |
| 2. Article Number (Transfer from sen. 7007 0220 0002 5082 4214 PS Form 3811, February 2004 Domestic Return Receipt 102595-02-44-1 SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mallplace, or on the front if space permits. 1. Article Addressed to: New Meyco State Land Office Myre Meycs John 102595-02-44-1 COMPLETE THIS SECTION ON DELIVERY A. Signature X. Agent Agent Addressed by (Printed Name) C. Date of Delivery address different from Item 1? Yes If YES, enter delivery address below: No No Habbos, N M 88240 3. Servizé Type Definited Mail Express Mail | • | |
| SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailplece, or on the front if space permits. 1. Article Addressed to: New Mexico State Land Office Mexico State Land Office Mayra Muyers John Service Type Westing Address Mail Service Type Complete This Section on Delivery A. Signature X | • | ☐ Insured Mall ☐ C.O.D. |
| SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the maliplece, or on the front if space permits. 1. Article Addressed to: New Mexico Stak Land Office Myra Mayers Jaoz N. Grincs, Stc. D Habbos, N.M. 88240 Complete Items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. X. A Signature X. A Signature X. A Signature X. A Signature X. B. Received by (Printed Name) C. Gate of Delivery address different from item 17 All Yes If YES, enter delivery address below: No Habbos, N.M. 88240 3. Service Type Complete Items 1, 2, and 3. Also complete item 4 if Restricted Delivery address different from item 17 All Yes If YES, enter delivery address below: 3. Service Type Complete Items 1, 2, and 3. Also complete item 4 if Restricted Delivery address different from item 17 All Yes If YES, enter delivery address below: 3. Service Type Complete Items 1, 2, and 3. Also complete item 4 if Restricted Delivery address different from item 17 All Yes If YES, enter delivery address below: Complete Items 1, 2, and 3. Also complete item 4 if Restricted Delivery address different from item 17 All Yes If YES, enter delivery address below: Complete Items 1, 2, and 3. Also complete items 4 if Restricted Delivery address different from item 17 All Yes If YES, enter delivery address below: Complete Items 1, 2, and 3. Service Type Complete Items 1, 2, and 3. Also complete items 1, 2, and 3. Also complete items 1, 2, and 3. Also complete items 1, 2, and 3. Also complete items 1, 2, and 3. Also complete items 1, 2, and 3. Also complete items 1, 2, and 3. Also complete items 1, 2, and 3. Also complete items 1, 2, and 3. Also complete items 1, 2, and 3. Also complete items 1, 2, and 3. Also complete items 1, 2, and 3. Also complete items 1, 2, and 3. Also complete items 1, 2, and 3. Also complete items 1, 2, and 3. Also com | | ☐ Insured Mall ☐ C.O.D. |
| Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the maliplece, or on the front if space permits. 1. Article Addressed to: New Mexico State Land Office Myre Mexics J122 N. Grimcs, Stc. D Habbs, NM 88240 3. Servizé Type Cordined Mail Express Mail | 2. Article Number (Transfer from sen 7007 0220 0002 | ☐ Insured Mail ☐ C.O.D. 4. Restricted Delivery? (Extra Fee) ☐ Yes |
| Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the maliplece, or on the front if space permits. 1. Article Addressed to: New Mexico State Land Office Myre Mexics J122 N. Grimcs, Stc. D Habbs, NM 88240 3. Servizé Type Cordined Mail Express Mail | 2. Article Number (Transfer from sen ?007 0220 0002 | ☐ Insured Mail ☐ C.O.D. 4. Restricted Delivery? (Extra Fee) ☐ Yes 5082 4214 |
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| So that we can return the card to you. Attach this card to the back of the mallplece, or on the front if space permits. 1. Article Addressed to: New Mexico State Land Office Myre Mexics J102 N. Grimcs, Stc. D Habbs, NM 88240 3. Servizé Type Cycertified Mail | 2. Article Number (Transfer from sen ?007 0220 0002 PS Form 3811, February 2004 Domestic Re | Insured Mail C.O.D. 4. Restricted Delivery? (Extra Fee) Yes 5 0 8 2 4 2 1 4 turn Receipt 102595-02-M- |
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P.O. Box Box 388 Hobbs, New Mexico 88241-0388



(575)393-1079 www.cnhobbs.com

NMOCD Order R9166

Ticket: 23358

Bill To: M & \$

Company/Generator: XTO Company Man: dan patmon

Trucking: M & S

Date/Time: 8/25/2009 4:08:25 PM

Lease: NVAU Well: water station

PO: na Driver: rene Vehicle: 11

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Product Tank Bottoms

Quantity 1230 /20 Bbls Area

Description

Generator Certification Statement of Waste Status

I heraby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261,21-261,24, or listed hazaruous waste as defined in 40 CFR, part 261, subpart 0, as amended. The following documentation is attached to demonstrate the above described waste is non-hazardous. (Check the appropriate items): ☐ MSDS Information Other (Provide description above)

Driver/Agent (signature)

RCRA Hazardous Waste Analyis

Frocess Knowledge

CRI Rep (signature)

Tank Bottoms

| | reet | inches | | | |
|--|-----------|--------|---------------------|-----|--------------|
| | 1st Gauge | | BS & WBBLS Received | 120 | BS & W 100 % |
| | 2nd Gauge | 1 | Free Wate | | |
| | Received | | . Total Received | 120 | |

P.O. Box Box 388 Hobbs, New Mexico 88241-0388



(575)393-1079 www.crlhobbs.com

CONTROLLED RECOVERY, INC NMOCD Order R9166

| Ticket: 23333 | | _ | | | | |
|---|---------------------------------|--|-----------------------------------|---------------------------------------|---------------|---|
| Bill To: M & G | | | Lease: NV | 'AU | - | |
| Company/Generator: XTO | | (| Well: north | water station | 1 | (|
| Company Man: dan patiman | | | Rig: na | | | |
| Trucking: M & S | | | PO: nana | _ _ | | |
| Date/Time: 8/25/2009 2:35:10 PM | | | Driver: trav | /is | | |
| • | •• | | Vehicle: 9 | •. | | |
| Comments | | | | | | |
| Type of Materials | | | | · · · · · · · · · · · · · · · · · · · | | <u> </u> |
| | | | | | | |
| Product | Quantity | •• | Ārea | <u>Description</u> | | •• |
| Tank Bottoms | 120 | · Bbls | 7 | | | ·. |
| Generator Certification Statement | of Waste St | atus | | | | |
| I hereby certify that according to the Res regulatory determination, the above desi RCRA Exempt: Oil field wastes ger | cribed waste is: | | | • | | |
| RCRA Non-Exempt: Oil field waste characteristics established in RCRA regramended. The following documentation: | which is non-hallations, 40 CFI | azardous (hat do R 261,21-261,24 | es not excoed , or listed haza | the minimum star | dards for wa | ste hazardous by FR, part 261, subpart D, as |
| MSD3 Information PC | RA Hazardous | Waste Analyis | Proce | ss Knowledge | Other (F | Provide description above) |
| Driver/Agent (signature) | | | | | CRI | Rep (signature) |
| | | | | | | (- |
| Tank Bottoms | | | | | | |
| Feet | Inches | ······································ | | | | T |
| 1st Gauge | | | BS & W/BE | LS Received | 120 | BS & W 100 % |
| 2nd Gauge | | | | Free Water | | |
| Received | ì | | 16 | otal Received | 120 | i |

V-11920

Invoice

Controlled Recovery Inc.

4507 W Carlsbad Highway PO Box 388 Hobbs NM 88240 United States 505-393-1079

200 N LORRAINE STREET

MIDLAND TX 79701-4754

BIII To

SUITE 800

United States

XTO ENERGY INC

MAR 2 0 2009

Date Invoice #

Terms
Due Date
PO #
Generator
Memo
Lease

Well Rig Company Man 3/17/2009 64005

Net 30 4/16/2009

OTX

BRIDGES STATE

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| Contaminated Soil | 16 | 18.00 | 288.00 215313 | 3/11/2009 | Ocotitlo Environmental, LLC |
| Contaminated Soil | 16 | 18.00 | 288.00 215263 | 3/11/2009 | Ocotillo Environmental, LLC |
| Contaminated Soil | : 16 | 18.00 | 288.00 215300 | 3/11/2009 | Ocotillo Environmental, LLC |
| Contaminated Soil | 1 6 · | 18.00 - | 288.00 215314 | 3/11/2009 | Ocotillo Environmental, LLC |
| Contaminated Soil | 16 : | - 18.00 | 288.00 215455 | : 3/12/2009 | Ocotillo Environmental, LLC |
| Contaminated Soil | 16 | 18.00 | 288.00 215457 | 3/12/2009 | Ocotillo Environmental, LLC |
| Contaminated Soil | 16 - | 18.00 | 288.00 215456 | 3/12/2009 | Ocotillo Environmental, LLC |
| Contaminated Soil | 18 - | 18.00 | 288.00 215491 | . 3/12/2009 | Ocotillo Environmental, LLC |
| Contaminated Soil | 16 ' | 18.00 | 288.00 215626 | 3/13/2009 | Ocotillo Environmental, LLC |
| , Contaminated Soil | 16 ∻ | 18.00 | 288.00 · 215624 | 3/13/2009 | Ocotillo Environmental, LLC |
| Contaminated Soil | 16 . | 18.00 | 288.00 215625 | 3/13/2009 | Ocotillo Environmental, LLC Ocotillo Environmental, LLC |
| Contaminated Soil | 16 . | 18.00 | 288.00 215627 | 3/13/2009 | Ocotillo Environmental, LLC |
| Contaminated Soil | 16 | 18.00 : | 288.00 215694 | 3/13/2009 | Ocolillo Environmental, LLC |
| Contaminated Soil | 16 . | 18.00 | 288.00 215918 | . 3/16/2009 : 3/16/2009 | Ocolillo Environmental, LLC |
| Contaminated Soil | 16 ∹ | 18.00 | 288.00 215924 | 3/16/2009 | Ocotillo Environmental, LLC |
| Contaminated Soil | 16 | 18,00 18,00 | 288.00 215950 288.00 215936 | 3/19/2009 | Ocotillo Environmental, LLC |
| Contaminated Soil | 16 16 | 18.00 | 288.00 215963 | 3/19/2009 | Ocotillo Environmental, LLC |
| Contaminated Soil | 10 | 10,00 ; | 200.00 , 213903 | : 911912009 | Ocolino Chanolinichiai. CCO |

Subtotal Tax (NM Sales Tax 5.375%) Total 5,184.00 278.64 \$5,462.64

TOPY

NUA NORTH WATER STATION ACE-# 900436-113253

P.O. Box 388 • Hobbs, New Maxico 88241-0388 • (575) 393-1079 • www.crihobbs.com NMOCD Order R9166

| 8ill to | | | | | | | |
|---|--|---|--|------------------|---|---|---|
| Address | | | | | | | |
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| Company/Generat | or X | | | | | | |
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| Date 3 | -11-69 | · | | Time | | 118 | a.m. / p.m . |
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| ☐ Fluids ☐ Tank Bottoms | ☐ Soils ☐ Other Mate | orial (Lea Dance | india - Dalami | Popoliula | a Aron | | • |
| Lank Bollons | Var Other Mate | eriai (List Descr | | RIPTION | ng Area '≲ی ذ (- | 7 | |
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| Volume of Material .Wash Out | D Bbls | | | A Yard | 16 | ☐ Gallons _ ☐ Debris C | |
| waste. RCRA Non-Excharacteristics esta | rmination, the aboven the color of the color | ve described w lenerated from ste which is n equilations, 40 | raste is: (Check to a contract of the contract | | sification) ction operations a d the minimum of | and are not mixed standards for was ned in 40 CFR, pa | with non-exempt ste hazardous by rt 261, subpart D, |
| MSDS Informatio | n 🔘 RCRA Haza | ardous Waste | Analysis 🔲 Pr | rocess Knowledge | Other (Provid | le description abov | ve) |
| CRI Approval # _ | | | • | • | • | · | |
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| Agent(Signatur | e) | y o | - 1 - W | | | /// | |
| CRI Representative | a. | , | / | | /Ce | in Mas | T-home |
| , | (Signature) | | ······································ | ì | | | |
| TANK BOTTOMS | | | | • | | • | |
| • | Feet | Inches | | | | | |
| 1st Gauge | <u></u> | | BS | &W/BBLS Receiv | ed | BS&W | % |
| 2nd Gauge | } · | | | Free Wat | ter | | |
| Received | | | | Total Receive | ed | | |
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| White - CRI | Form C138 | Cenary - CRI A | ecounting | : Pink - CR | ti Plant | Gold - Tran | |

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| | | NMOCD Ord | ter R9166 | | ريادي يوسان سنديون | |
|--|--|---|---|--|--|---------------------|
| Bill to | <u> </u> | | | | <u> </u> | |
| Address | | | | | A COMMENT OF THE PARTY OF THE P | |
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| ompany/Generator | XTO | | | | , | |
| ease Name | • | Bridges S | TATE | | | |
| ucking Company | Destillo | Vehicle Number | 1109 | Driver (Print) | Enmione | , |
| ate 3-11-0 | ٩ | · | Time | 10: | | m:/ p.m. |
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| Tank Bottoms | Other Material (| | | Area <u>SO</u> | | |
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| lume of Material | 🔲 Bbls | | Ø√Yard/_6 | | ☐ Gallons | |
| Wash Out | Call Out | * : | After Hours | | Debris Charge | e:e |
| RCRA Exempt: O waste. CRA Non-Exemple characteristics establications. | il field wastes genera ipt: Oil field waste w shed in RCRA regulat | scribed waste is; (Check the ated from oil and gas explor hich is non-hazardous that tions, 40 CFR 261.21-261.24 is attached to demonstrate | ation and production does not exceed or listed hazardou | on operations and the minimum stan is waste as defined | dards for waste ha in 40 CFR, part 261 | zardous I |
| | ☐ RCRA Hazardou | s Waste Analysis 🚨 Proce | ess Knowledge | Other (Provide de | secription above) | |
| CRI Approval # | • | | e . in it | | n action above, | : |
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| ent(Signature) | amon | J golf | | | | |
| RI Representative | | , | | poline Al | | |
| KI Representative | (Signature) | | | | 4 | |
| NK BOTTOMS | | • | | • | | |
| ſ | Feet | Inches | | | · | |
| 1st Gauge | | BS&V | V/BBLS Received | | BS&W | 9 |
| 2nd Gauge | | | Free Water | | | |
| | | | · | | | |
| Received | | | Total Received | <u> </u> | <u> </u> | |
| | | | | | 2152 | 263 |
| F White - CRI | Form C138 Cana | ary - CRI Accounting | Pink - CRI Pi | ant | Gold - Transporter | г |

3

THE COLOR PRINTER - #7521

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| Bill to | - | | | | | | |
|-------------------------------------|---|--|--|--|--|-------------------------------------|------------------------------------|
| Address | 717111 | | | | · · · · · · · · · · · · · · · · · · · | 5 | |
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| Lease Name | | 15/1/2 | 5+ | | | | |
| Trucking Company | | , · \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | ehicle Numb | er 1109 | Driver (Print) | EDMON | 0 |
| Date $\frac{2}{2} - \frac{1}{2}$ | / · Ø { | | | Time | | <u>'45'</u> | a.m. Lean. |
| | | | Type of | Material | | | |
| Fluids | Soils | | | | | | |
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| 'olume of Material | 🔲 Bbls | | | ☐ Yard _/Ş | | ☐ Gallons _ | |
| ☐ Wash Out | Call Out | - | | After Hours | | Debris Cl | narge |
| waste. RCRA Non-Exectaristics esta | Oil field wastes gen empt: Oil field waste blished in RORA regi | erated from oil which is non- ulations, 40 CFF | and gas explorate that a second secon | e appropriate classification and production and production at does not exceed 24, or listed hazardous the above-described | on operations and the minimum sta is waste as define | indards for was d in 40 CFR, par | te hazardous b t 261, subpart 5 |
| MSDS Information | ☐ RCRA Hazard | ous Waste Ana | Ivsis 🔲 Pro | cess Knowledge | Other (Provide o | description abov | ө) |
| CRI Approval # _ | | | Th. | and the second of the second o | E A S | 7 | |
| البك | and d | () 1/ pc | <u> </u> | , | | | 4. |
| Agent(Signature | mung_ | 991 | / | | -) | | |
| SRI Representative | | / / | | | Leu M | Car | • |
| Sitt itepresentative | (Signature) | _ | | | | 3 | |
| ANK BOTTOMS | | | | | | | |
| . l | <u>Feet</u> | Inches | | | | | |
| 1st.Gauge | | | BS& | W/BBLS Received | | BS&W | <u>%</u> |
| 2nd Gauge | | | | Free Water | | | |
| Received | | | | Total Received | ſ | | |
| _ | Form C138 | | | No. 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 | | 23 | 15300 |

White - CRI

Canary - CRI Accounting

Pink - CRI Plant

Gold - Transporter
THE COLOR PRINTER - #7521

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| Bill to | · · · · · · · · · · · · · · · · · · | | · | · | | • | ; , |
|--|---------------------------------------|---|---------------------------------------|-----------------|--|--|---|
| Address | · · · · · · · · · · · · · · · · · · · | | | | | | |
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| Trucking Company | (C) Co+ | :110 V | ehicle Number | 1109 | Driver (Pri | int) EDMO | N D |
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| ☐ Fluids | ☐ Soils | | | • | | - 1 | |
| ☐ Tank Bottoms | U-Other Ma | terial (List Description | on Below) | Receiving | Area | 50-51 | |
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| /olume of Material | 🔾 Bbls. | | 1 | Tard | 16 | Gallons _ | · |
| ☐ Wash Out | ☐ Call C | | | After Hours | | Debris Cl | |
| waste. CRA Non-Execharacteristics estal | empt: Oil field w blished in RCRA | aste which is non- regulations, 40 CF | -hazardous that R 261.21-261.24 | does not exceed | the minimum | and are not mixed standards for was stined in 40 CFR, par n-hazardous. (Check | e hazardous by t 261, subpart D, |
| items) | ik: | | | | 00 (10010 10 110 | | |
| ☐ MSDS Information ☐ CRI Approval # | O DODA Na | zardous Waste Ana | alysis D Proce | ess Knowledge | Other (Prov | ide description aboy | e) |
| Agent | 3 E.J. | mod | emo | | | <u> </u> | |
| (Signature |)) | 1 | 7 | , / | 111 | | |
| RI Representative | (Signature) | | _ | / Cons | Vant | - | |
| ANK BOTTOMS | _ | • | | • | | • | |
| | <u>Feet</u> | Inches | 1 | | | | |
| 1st Gauge | | | BS&W | //BBLS Receive | d | BS&W | % |
| 2nd Gauge | | | | Free Wate | er | | |
| Received | | | | Total Receive | d | 1 | |
| L | · | | _ | | | 2 | 15314 |
| White - CRI | Form C138 | Ganery - CRI Accou | มกปักฐ | Pink - CRi | Plant | Gold - Trans | |

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| Bill to | | | | | |
|---|---|---|--|---|--|
| Address | | | | | |
| | | ··· | | | |
| Company/General | tor VTO | | | | · · · · · · · · · · · · · · · · · · · |
| Lease Name | | Bridge Sta | ute | | |
| Trucking Company | | · Vehicle Numb | er 110 4 | Driver (Print) EDm | ONP |
| Date 3-12 | -09 | - | Time | 8.03 | a.m. / p.m. |
| _ | _ | Type of | Material | | |
| ☐ Fluids | ☐-Soils | | | A | |
| ☐ Tank Bottoms | Other Material (List | | | Area | · · · · · · · · · · · · · · · · · · · |
| | | DESCR | UPTION | (on)- |) _{a. '/} |
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| Volume of Material | I 🔲 Bbis | | Pard / b | Gallo | ns |
| ☐ Wash Out | Call Out | | After Hours | Q Debri | s Charge |
| waste. RCRA Non-Excharacteristics estates amended. The table | empt: Oll field waste whic ablished in RCRA regulation | h is non-hazardous tha ns, 40 CFR 261.21-261.2 | at does not exceed 24, or listed hazardou | on operations and are not mit the minimum standards for is waste as defined in 40 CFR d waste is non-hazardous. (C | waste hazardous l , part 261, subpart |
| items) MSDS Information | n 🔲 RCRA Hazardous W | /aste Analysis 🔲 Pro | cess Knowledge | Other (Provide description a | ibave), |
| CRI Approval # _ | | 1 O '1 | , | • | |
| Agent | "Edmond | Vefor | | ٠ | |
| (Signaturi CRI Representative | , | | 1 lance | May S. | |
| • | (Signature) | | - | · S | |
| ANK BOTTOMS | Feet Inc | hes | | | |
| 1st Gauge | , | BS& | W/BBLS Received | BS&W | % |
| 2nd Gauge | | | Free Water | | |
| Received | | | Total Received | | |
| , · | | | | | 215455 |
| White - CRI | Form C138 Canary - | CRI Accounting | Pink - CRI PI | | Transporter |

.THE COLOR PRINTER - 47521

- **DNTROLLED RECOVERY, I**P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com NMOCD Order R9166

| Bill to | | | | | | | |
|--|--|--|--|--|--|--|--|
| Address | | | | | | | |
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| Company/Generato | r XTO | | | | | | |
| Lease Name | | Bridge | s Stat | ર ં | | | ' |
| Trucking Company | · Ocotil | (0 | Vehicle Numb | per 1109 | Driver (Print) | EDMOR | 0 |
| Date 3-12 | -09 | | | Time | 882 | 4:40. | a.m:1 p.m. (|
| | | | Type of | Material | | | 1 |
| ☐ Fluids | Soils | | | | | | |
| ☐ Tank Bottoms | Other Mate | erial (List Desc. | ription Below) | Receiving | AreaSC | | <u> </u> |
| | | | DESC | RIPTION | | تار که روز | pr/ . |
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| | | | | 1 | | | 1 |
| Volume of Material | ☐ Bbls | | | Vard / | 6 | ☐ Gallons | |
| ☐ Wash Out | Call Ou | ut | | ☐ After Hours | | Debris Char | ge |
| waste. RCRA Non-Exer characteristics estables amended. The foliams) | cording to the R nination, the abor Dil field wastes g mpt: Oil field wa lished in RCRA n flowing documen RCRA Haza | esource Cons- ve described we generated from ste which is regulations, 40 tation is attach | ervation and Rec vaste is: (Check to noil and gas exp non-hazardous the CFR 261.21-261 and to demonstrate | STATEMENT OF WAS covery Act (RCRA) an he appropriate classification and production at does not exceed .24, or listed hazardouse the above-described occass Knowledga | d the US Enviror cation) on operations and the minimum stars waste as defined waste is non-half Qther (Provide A | I are not mixed with ndards for waste he d in 40 CFR, part 26 zardous. (Check the description above) | h non-exempt hazardous by 61, subpart D, se appropriate |
| • | (Signature) | | | | | | |
| ANK BOTTOMS | Feet | Inches | · | • | | | } |
| 1st Gauge | | : | BS8 | W/BBLS Received. | | BS&W | % <u> </u> |
| 2nd Gauge | - | | | Free Water | | | |
| Received | | | | Total Received | | | , |
| L _ | Form C138 | | | | | 215 | 457 |

Pink - CRI Plant

Gold - Transporter

THE COLOR PRINTER - #752)

Canary - CRI Accounting

White - CRI

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| Bill to | | | | | | | |
|---|---|---|---|--|--|---|------------------------------|
| Address | | | | | | | |
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| Company/Generate | or 7.10 | | | | | | |
| Lease Name | | 1312(d)g. | os 51, | ATE | | | |
| Trucking Company | Ue6-1. | ((a /v | ehicle Number | 1/09 | Driver (Print) | EDMON | 0/ |
| Date 5 12 | . 59 | | | Time | 1.6 | O(a) | .m. / p.m. |
| _ | _ | | Type of | Material | | | |
| ☐ Fluids | Soils | | | _ | <i>2</i> 7 | , | |
| ☐ Tank Bottoms | ☐ Other Mate | rial (List Descripti | | | ng Area <u>50</u> | , , , , | |
| | | | DESCR | IPTION | | (and > | 1 |
| | *** | <u>.</u> | , 3. i | | · · · · · · · · · · · · · · · · · · · | · _ | _ |
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| 'olume of Material | 🚨 Bbls | | | D-Yard- | Çe | ☐ Gallons | |
| ☐ Wash Out | Call Ou | ıt | • | ☐ After Hours | | Debris Charg | je · |
| waste. RCRA Non-Exe characteristics estal as amended. The following the control of the control | Oil field wastes g impt: Oil field was blished in RCRA re | enerated from oi ste which is non egulations, 40 CF | l and gas expl hazardous the R 261.21-261.2 | oration and product at does not excee 24, or listed hazard | ction operations and d the minimum sta ous waste as define | d in 40 CFR, part 26 | azardous by 1, subpart D, |
| · | © □ DCDA Hoza | urdous Mosts An | alvois Bro | ooss Kooudadaa | Other (Provide | description shove): | |
| ☐ MSDS Information ☐ CRI Approval # | T (C) (C) (A) | TOOUS VVASIC AIR | A C | ceas (diomicodo) | Age 1 | description above) | |
| | Dan M | A X) Sh | M | | | <i>/</i> - | |
| Agent (Signature |) | | | | - / // | - | |
| ∴RI Representative | | { | - | | 1 Cary Ma | 2 | |
| • | (Signature) | | | | · | | |
| ANK BOTTOMS | | | | • | | • | 1 |
| ٠. ا | Feet | Inches | | | | <u> </u> | |
| 1st Gauge | | | BS& | W/BBLS Receive | ed . | BS&W | % |
| 2nd Gauge | | | | Free Wat | er | | |
| Received | | 1 | | Total Receive | ed | | · |
| L | | <u></u> | · | | | 215 | 456. |

Form C138

White - CRI

Canary - CRI Accounting

Pink - CRI Plant

Gold - Transporter
THE COLOR PRINTER: #7521

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| Bill to | | | | · | | | |
|--|-----------------------------------|--|--|--|--------------------|--|------------------------------|
| Address | | | | | | | |
| ···· | | | | | ··· | | |
| Company/Genera | tor | | <u> </u> | | | | |
| Lease Name | | | | Bridges | State | | |
| Trucking Company | y () cat. | (lo v | ehicle Number | 1109 | Driver (Print) | EDMOR | F3 |
| Date 3-17 | 2-09 | | Т | ime | 11. | 20 (a | .m. (p.m. |
| | _ | | Type of Ma | aterial | | | |
| ☐ Fluids | Soils | - | | | | ·/ | · : |
| ☐ Tank Bottoms | U Other Ma | aterial (List Description | | | Area | 31 | \leftarrow |
| | | | DESCRIP | TION | | (acl. | |
| *************************************** | | 3 | , | <u> </u> | | <u> </u> | |
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| √olume of Materia | □ Bbls. | | | Yard (| , | ☐ Gallons | . (·w.) |
| ☐ Wash Out | Cl Call C | Out | d | After Hours | | Debris Charg | }e |
| waste. RCRA Non-Ex characteristics esta as amended. The | empt: Oil field wablished in RCRA | generated from oil vaste which is non- regulations, 40 CFI entation is attached | hazardous that d R 261.21-261.24, (| oes not exceed or listed hazardou | the minimum star | ndards for waste h I in 40 CFR, part 26 | azardous by 1, subpart D, |
| items) items) items) items) items) | aer - ⊡toco∧ua | zardous Wąste Ana | obraia 📑 Oranga | s Kanuladas - 🗆 | Other (Provide d | accintian ahova) | |
| S 4 5 | *** | zaidous yvaste Ana | nysis — Pioces | e Kubwiedde - 'C | Lottier (Flovice o | escription above) | |
| CRI Approval# | 0/ | 18) | | , | | | |
| \gent(Signature | Carro | 104 | 7 | . (| | | <u> </u> |
| CRI Representative | | | | | (Cour ? | May - lin | ب |
| or a representative | (Signature) | | | | | | , |
| ANK BOTTOMS | - , | | · | • | | | |
| - | <u>Feet</u> | Inches | <u> </u> | ······································ | | | |
| 1st Gauge | | | BS&W/I | BLS Received | | BS&W | % |
| 2nd Gauge | | · | | Free Water | | | |
| Received | | | | Total Received | | | |
| • | | | | | | 215 | 491 |
| White - CRI | Form C138 | Canary - CRI Accoun | nting | Pink - CRI Pi | ant | Gold - Transporte | į. |

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| Bill to | | | | | | • | |
|------------------------------------|---|-------------------------|------------------------------|--------------------------------|--------------------|--|-------------------------|
| Address | | | | | | | |
| | | | <u></u> | | | | |
| Company/Generate | or | X | TO_ | | | | |
| Lease Name | | | <u></u> | مرضامييع | <u></u> | 145 | |
| Trucking Company | Urotel | (c) Veh | icle Numbe | r 1109 | | Driver (Print) じこ | mono |
| Date 3-13- | D9 | · | _ | Time | | 920 | <u>- a.m. /</u> p.m. |
| | | | Type of | Material | | | |
| ☐ Fluids ☐ Tank Bottoms | Soils Other Met | arial ((24 pages) | 0-41 | Dea | | A 50-51 | ! |
| | U Other Mate | erial (List Description | | | eiving. | Area <u>50-51</u> | -/ < 1 |
| | <u>()</u> . | | DESCR | PRON | | | az(,) 00 1 |
| | <u>``</u> | · | | | *:0 | | |
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| | T | · | | | | | <u> </u> |
| | | *** | | | | | |
| Volume of Material | ☐ Bbls | | | Yard | 16 | | lons |
| 1988 regulatory deter | eccording to the R mination, the abo | ve described waste | on and Reco is: (Check th | overy Act (RC e appropriate | RA) an classifi | d the US Environmental P | 4. |
| characteristics esta | blished in RCRA re | egulations, 40 CFR | 261.21-261.2 | 4, or listed ha | azardou | the minimum standards fo s waste as defined in 40 CF d waste is non-hazardous: | R, part 261, subpart D |
| MSDS Information | RCRA Haza | ardous Wąste Analy | sis 🔲 Prod | cess Knowled | lge √.□ | Other (Provide description | ň above) |
| MSDS Information CRI Approval # _ | * 550 A . A . | | · | i, ista | | | • |
| \gent | Sal mor | | 401 | | / | | |
| (Signature | 3) | 1. 7 | 1 1 | | (| / 11 | Aj. |
| CRI Representative | | | | | | 1 Com 11/ac | <u> </u> |
| | (Signature) | | | | | | |
| ANK BOTTOMS | Feet | Inches | | | | | 1 |
| 1st Gauge | | | BS& | W/BBLS Re | ceived | 858/ | w % |
| 2nd Gauge | | | | Free | Water | | 1 |
| Received | | | | Total Re | ceived | <u>.</u> | 1 |
| , L | | | | | | | 215626 |
| White - CRI | Form C138 | Canary - CRI Accounti | ng | Pin | ık - ÇRI Pi | ant Gol | d - Transporter |
| | | • | - | | | • | THE COLOR COURTED TOTAL |

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| Bill to | | | | · | | | | |
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| Address | | | | | | · · · · · · · · · · · · · · · · · · · | | ; |
| | · | | · | | | <u>.</u> | | |
| Company/Generator | · | | XT | 0 | | | | |
| Lease Name | | , | | Bridge | <u> </u> | state | | |
| Trucking Company (| Dcatill | 0 | Vehicle N | umber 1, 5 | 59 D | river (Print) | (<u>-</u> -D | mons |
| Date 3-13-0 | ,9 | | | Time | | E'0 | ბ | a.m.+p.m. |
| _ | | | Тур | e of Material | | | | |
| | Soils | | | | | | .~1 | |
| Tank Bottoms | Other Mate | erial (List Des | | | celving Are | | > / | |
| | | | DE | SCRIPTION | (| [m.1.5] | > ~· (| ····· |
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| Wash Out | ording to the R | ut ENERATOR esource Con | servation and | Yard After He ON STATEMENT (Recovery Act (RC | OF WASTE | e US Environ | | Charge |
| Mash Out hereby certify that according the according to | Call Ou Growting to the R nation, the abort I field wastes go pt: Oil field wasted in RCRA n | ENERATOR lesource Con ve described generated fro ste which is egulations, 46 | servation and waste is: (Che m oil and gas non-hazardos 0 CFR 261.21- | After Ho ON STATEMENT (Recovery Act (RC eck the appropriate exploration and pour us that does not e- 261.24, or listed he | OF WASTE CRA) and the classification roduction of exceed the exceed the exardous w | ne US Environ on) perations and minimum star aste as defined | Debris mental Protect are not mixe ndards for wad in 40 CFR, p | Charge ction Agency's Ju d with non-exem aste hazardous to the control of the |
| 1988 regulatory determing a RCRA Exempt: Oil waste. RCRA Non-Exempt characteristics establish as amended. The followitems) | Gording to the Renation, the about field wastes got: Oil field wastes downed in RCRA nowing documents. | ENERATOR lesource Con ve described generated fro ste which is egulations, 46 tation is attac | servation and waste is: (Che m oil and gas non-hazardor 0 CFR 261.21- ched to demon | After Ho ON STATEMENT (Recovery Act (RC eck the appropriate exploration and pour us that does not e- 261.24, or listed ha estrate the above-de- | OF WASTE CRA) and the classification roduction of exceed the exceed the exceed was escribed was | ne US Environ on) perations and minimum star aste as definerate is non-hair | Debris mental Protect are not mixe ndards for wad in 40 CFR, p | Charge ction Agency's Ju d with non-exem este hazardous to eart 261, subpart to each the appropria |
| Wash Out I hereby certify that accomposition to the property of the property | Gording to the Renation, the about field wastes got: Oil field wastes downed in RCRA nowing documents. | ENERATOR lesource Con ve described generated fro ste which is egulations, 46 tation is attac | servation and waste is: (Che m oil and gas non-hazardor 0 CFR 261.21- ched to demon | After Ho ON STATEMENT (Recovery Act (RC eck the appropriate exploration and pour us that does not e- 261.24, or listed ha estrate the above-de- | OF WASTE CRA) and the classification roduction of exceed the exceed the exceed was escribed was | ne US Environ on) perations and minimum star aste as definerate is non-hair | Debris mental Protect are not mixe ndards for wad in 40 CFR, p | Charge ction Agency's Ju d with non-exem este hazardous to eart 261, subpart to each the appropria |
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| Bill to | | | | | | · · · · · · · · · · · · · · · · · · · |
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| CRI Approval # | | | | | | - 1 |
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| ing Dottone | | | • | | • | |
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| · f | Form C138 | <u></u> | | | 21! | 5625 |

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| items) MSDS Informatio | n 🗖 RCRA Haz | | alysis @*Proc | ess Knowled | ge 🖸 | Other (Provide de | escription above) | ; |
| # CRI Approval 🗖 2. | 7 | 01/0 | | | | | | ſ |
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| CRI Representative | • | | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · | | lene 8 | Mars-h | <u> </u> |
| FARIC DOTTOMS | | | | | | | | |
| TANK BOTTOMS | Feet | Inches | | | | | | |
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| | Form C138 | | | | | | 215 | 627 |
| White - CRI | | Canary - CRI Ac∞ | unting [,] | Pink | - CRI Pla | int | Gold - Transporte THE COLOR | H PRINTER - #7521 |

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| Bill to | | | | | | |
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| Address | | | | | | |
| Company/Generator | | \/ | | | | |
| Company/Generator | | <u>YTO</u> | | | | <u> </u> |
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| items) | RCRA Hazardous W | into Angliki D. D. | | Other (Provide d | | ٠. |
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| TANK BOTTOMS | Fact for | L | | | | |
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| Company/Generator | XTO | | | | · · · · · · · · · · · · · · · · · · · | |
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| Date 7 - 16 | - 09 | • | Time 8:05 | . - | | a(m) / p.m.: |
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| waste. "RCRA Non-Execharacteristics esta as amended. The f | empt: Oil field wa ablished in RCRA i | iste which is non- regulations, 40 CFF | and gas exploration and production hazardous that does not exceed the R 261.21-261.24, or listed hazardous to demonstrate the above-described was a second or second that the second or se | e minimum standard veste as defined in 40 | for waste hazardous by CFR; part 261, subpart D |
| items) | er Doğanlarının olan | | | Sa si i i s 1 | |
| | | , , | lysis 🖸 Process Knowledge 🚨 0 | ther (Provide descri | tion above) |
| CRI Approval # | | 1 | ++- | | : |
| Agent | Imond | | My Committee of the Com | · · | · ' |
| (Signature | •) | | | | |
| CRI Representative | (Signature) | Mull | 1/1-5 | | ! |
| TANK BOTTOMS | , f | 1 | | | • |
| | Feet | Inches | : | | |
| 1st Gauge | · | , , , , , , , , , , , , , , , , , , , | BS&W/BBLS Received | BS | % % % |
| 2nd Gauge | | · · | Free Water | | i |
| Received | | | Total Received | | |
| | | L | · | <u> </u> | 215924 |
| White - CRI | Form C138 | Canary - CRI Accour | ating Pink - CR! Plant | | Gold - Transporter THE COLOR PRINTER - 17521 |

CONTROLLED RECOVERY, INC.
P.O. Box 388 • Hobbs, New Mexico 88241-0388 • (575) 393-1079 • www.crihobbs.com NMOCD Order R9166

| Bill to | | | | | | | 1 |
|--|---|---|---|---|---|---|---|
| Address | | | | | | | 1 |
| | <u> </u> | ** | | | | | ı |
| Company/Generator | \times \mathcal{T} \mathcal{O} |) <u> </u> | | | | | |
| Lease Name | BRADLY | 5/ 3/N | ages | | | | |
| Trucking Company | OCOTILLO | Vehicle Nun | nber 1/09 | Driv | er (Print) | OMONO | 2 |
| Date 3 - 16 - | 09 | | Time / | 2: 45 | | | a.m. / g.m. |
| | | Type o | of Materiai | 1.11 | | • | |
| • | Soils | | | 25 | | 150 60 | • |
| ☐ Tank Bottoms | Other Material (Lis | | | iving Area | <u></u> | 5951 | |
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| /olume of Material | 🔲 Bbls | | /Yard/ | 6: | | ☐ Gallons | |
| ☐ Wash Out | Call Out ** | <i>.</i> • | ✓ After Hou | ırs | | Debris C | harge 🕙 🚧 i |
| 1988 regulatory determit RCRA Exempt: Oi waste. RCRA Non-Exem characteristics establis | ot: Oil field waste which shed in RCRA regulation with the policy wing documentation is | ribed waste is: (Check id from oil and gas ex ch is non-hazardous ns, 40 CFR 261.21-26 attached to demonstr | the appropriate conclusion and proster that does not extend that does not extend that does not extend the above-des | lassification duction ope ceed the mardous was cribed was | rations and Inimum star te as defined e is non-haz | are not mixed idards for was in 40 CFR, pa ardous. (Chec | with non-exemplate hazardous by rt 261, subpart D k the appropriate |
| = CKI Appioval # | | (h) 10/m | \ | | | ** | 1 |
| Agent(Signature) | amora (1) | 10 My | 1 | | · · · · | | |
| CRI Representative | (Signature) | Mark | | | · | | |
| ANK BOTTOMS | • | ches | | · ——- | | | , |
| 1st Gauge | | B | S&W/BBLS Rec | eived | | BS&W | % |
| 2nd Gauge | | | Free V | Vater | | | |
| Received |] _ | .] | Total Rece | eived | | | 1 |
| , , <u>,</u> | | | - | | · · · · · · · · · · · · · · · · · · · | 2: | 15950 |

White - CRI

Canary - CRI Accounting

Pink - CRI Plant

Gold - Transporter THE COLOR PRINTER - \$7521

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| Bill to | | | | | | | : |
|--|--|---|--|---|--|---|---|
| Address | | | | | ···· | | |
| 00 | | <i>A</i> . | | *************************************** | · | <u></u> | |
| Company/Generator | | 0 | 7 | ~1.C. ~ N | | | |
| Lease Name | 150(4) | 11 E Y - | | <u>olges</u> | | 15.0 | |
| Trucking Company | OCOTI | <u> </u> | Vehicle Number / | 109 | Driver (Print) | EDM OND | · · · |
| Date 3 - 16 - | 09 | | Time | | 20 | ······································ | a.m. / (p.m). |
| | | | Type of Mate | rial 🔑 | | | |
| | Soils | | | 400,000 | | | <u>{</u> |
| ☐ Tank Bottoms | Other Mater | ial (List Descript | | Receiving | Area | 14/5/ | |
| · · · · · · · · · · · · · · · · · · · | | ~~ | DESCRIPTIO | | | | <u>4</u> |
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| fallows and Adams and | . C. Dista | | ······································ | 1/ | | | |
| <u>/olume of Material</u> ☑ Wash Out | . · □ Bbls, <u>·</u> . □ Call Out | | | ard / /> fter Hours | | ☐ Gallons ☐ Debris Cha | |
| waste. RCRA Non-Exen characteristics estable as amended. The foliatems) | npt: Oil field was ished in RCRA re wing documenta | te which is nor gulations, 40,CF attached | il and gas exploration n-hazardous that doe R 261.21-261.24, or li | s not exceed sted hazardo pove-describe | the minimum st us waste as defin ed waste is non-h | andards for waste ed in 40 CFR, part azardous. (Check | nazardous by 261, subpart D the appropriate |
| MSDS Information | RCRA Hazai | dous Waste An | iálysis 🔲 Process K | nowledge U | Other (Provide | description above | |
| Joms District Medical Approval # | Edmod | Du | Jagg | · • • · · · · · · · · · · · · · · · · · | | | |
| (Signature) | 1 | 1/ Smil | | | | | |
| CRI Representative | (Signature) | a July | Jan 1 | · , | · | | <u> </u> |
| ANK BOTTOMS | Feet | Inches | | | | | |
| 1st Gauge | | · · · · · · · · · · · · · · · · · · · | BS&W/BB | LS Received | i . | BS&W | % |
| 2nd Gauge | | | - | Free Wate | | | |
| Received | | | To To | tal Received | <u>d</u> | | |
| | | - | | | | 21 | 5963 |
| Maria CO | Form C138 | Canani ORI Assa | | DIEL COLE | Plant | Gold - Transpo | |

THE COLOR PRINTER - #7521

APD - D-

RECEIVED District I 1625 N French Dr., Hobbs, NM 88240

District II 1301 W. Grand Avenue, Artesia, NMASSIO 2 7 2009 Energy Minerals and Natural Resources

District III
1000 Rio Brazos Road, Aztec, NN 40BBSOCD

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico

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

Form C-141 Revised October 10, 2003

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

| | | | Rele | ase Notific | atio | n and Co | orrective A | ction | | | _ | 1 | |
|------------------------------|--------------|-----------------------|--------------|--------------------|-----------|----------------------------|---------------------------------------|-----------|---------------------|---------------|--------------|-------------|--------|
| | | | | | | OPERA' | TOR | | 🔯 Initi | al Report | י ם(| Final Repo | rt |
| | | TO Energy, | | | | | y Haykus, Prod | | Supervisor | | フ | • | |
| | | <u> 10 Street, Su</u> | ite 800, M | idland, TX 797 | 01 | | No.: 432-682- <u>88</u> | 373 | | | | | _ |
| Facility Nar North Vacu | | ease – North | Water Sta | ation | | Facility Typ Produced W | e: /ater Injection S | Station | | | | | |
| Surface Ow | ner: NM S | tate Land O | ffice | Mineral O | wner | | | | Lease 1 | No. | | | |
| | | | | LOCA | TIO | NOFRE | LEASE | | | | | | |
| Unit Letter | Section | Township | Range | Feet from the | | ON OF RELEASE | | | | County: | | | |
| F | 14 | 17 S | 34E | | | | | | | Lea | | 1 | لـ |
| | | Latitude | N32° 50 | ' 08.7" | | Longitu | de 103° 3' 54.3 | 99 | | | | | |
| | | | - | <u> </u> | URE | E OF REL | | | | | | : | |
| Type of Rele | | | | | | | Release: Unkno | | | Recovered: | | | \Box |
| Source of Re | lease: Perma | anent Pit (agn | eed schedul | ing order closure | :) | Date and I- Unknown | lour of Occurrent | ce: | Date and 3:00 pm | Hour of Dis | scovery: 0 |)3/16/09 | |
| Was Immedia | ate Notice G | | Ves 🗆 | No 🛭 Not Rec | auired | If YES, To | Whom? | | _ 3.00 pm | | | | |
| By Whom? | | | 103 🗀 | 110 23 1101 1101 | quired | Date and H | loue | | | | | - | - |
| Was a Water | course Reac | hed? | | | | | olume Impacting | the Wate | ercourse. | | | <u>'</u> | ٦ |
| | | | Yes 🏻 | No | | | | | | | | | |
| If a Watercou | rse was Imp | pacted, Descri | be Fully. | -·· - ··- | | ,.l | · · · · · · · · · · · · · · · · · · · | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | • | , | |
| Describe Con | CD | - 15 | D. 1. 4. 2 | | | <u> </u> | | | | | | | _ |
| Describe Cau Release from | | | | | urine o | closure in acco | ordance with a pla | п аррго | ved by OC | D Environm | nental Bur | reau | |
| personnel in S | Santa Fe on | February 4, 2 | 009. Remo | ved concrete linis | ng pit | for disposal at | OCD approved of | iisposal | facility (Co | ontrolled Re | covery, la | nc.). | |
| Propose to ex | cavate conti | aminated soil | for disposa | l at same disposa | ıl facili | ity. | | | | | | • | |
| | | | | | | | | | | • | | | |
| Describe Area | Affooted o | nd Classic A | ation Toke | | | . | | | , | | <u> </u> | | |
| | | | | | n five | (5) areas show | ing staining on th | he side v | valls and b | clow the pit. | . Contam | ination | |
| appears limite | d to immed | iale area of so | oil staining | and will be excav | vated t | o delineate ex | tent of release. | | | • | | : | į |
| | | | | | | | | | | | | • | |
| | | | | , | | | | | | | | <u> </u> | |
| | | | | | | | knowledge and und perform correct | | | | | | |
| public health | or the envir | onment. The | acceptance | of a C-141 repor | 1 by th | ne NMOCD m | arked as "Final R | eport" d | loes not rel | ieve the ope | erator of li | iability | |
| | | | | | | | on that pose a thire the operator of | | | | | | |
| federal state, | or local law | Sind/or regu | lations | ince of a C-141 fe | срои | noes not renev | e the operator of | respons | ionny toi c | omphance v | with any t |),inci | |
| 1 | | | | | _ | | OIL CON | SERV | NOLTA | DIVISIO | NC | | |
| Signature: | 1 h | | <u> </u> | | | | . 6 | 3 | 10hu | 30v | | | |
| Printed Name | : Michelle L | Green | • | | | Approved by | District Suppose | ONM | ENTAL I | ENGINE | ER | | |
| Title: Environ | mental Scie | ntist | | , | _ | Approval Dat | e: 4-28- | 69 | Expiration | Date: | | | |
| E-mail Addres | s:michelle@ | <u> </u> | ental.com | | | Conditions of | Approval: | | | A 11 = -1 | | | į |
| Date: 3/17/09 | | | | Phone:432-687-09 | 201 | | | | | Attached | | ' ス・クリナム | _ |

N. French Dr., Hobbs, NM 88240 **RECEIVED** State of New Mexico Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr.

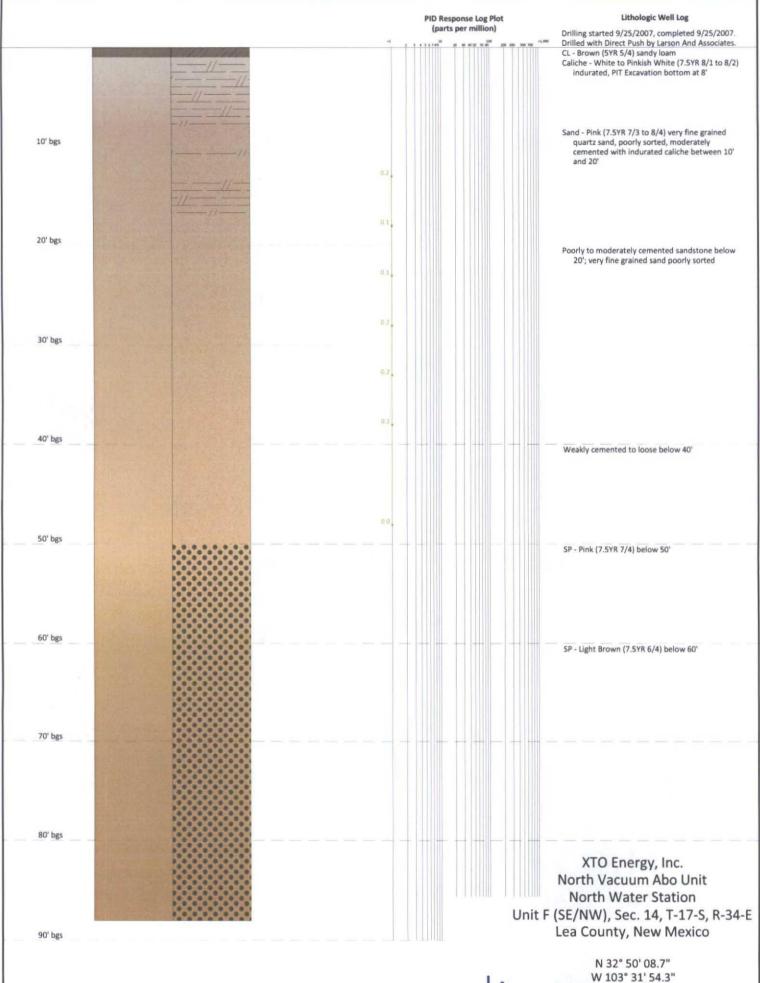
Form C-141 Revised October 10, 2003

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

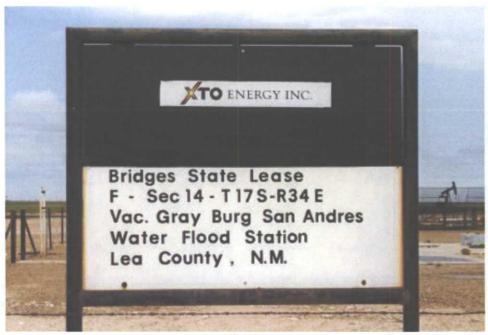
HOBBSOCO

ich Additional Sheets If Necessary

| 5. St. Prar | icis Dr., Sant | a rc, NM 87303 | , — — — · | S: | anta F | e, NM 875 | 05 | | | | | side or, torm |
|---|---|---|--|---|--|--|---|---|---|---|--------------------------------|---|
| | | | Rele | ease Notific | catio | n and Co | orrective A | ction | | | _= | |
| | | | | | | OPERA' | ror | | ☐ Initia | l Report | Ø | Final Report |
| ne of Company: XTO Energy, Inc. | | | | | | Contact: Guy Haykus/Production Superintendent | | | | | | |
| Iress: 200 N. Loraine St., Ste. 800, Midland, TX 79701 | | | | | | Telephone No.: (432) 682-8873 | | | | | | |
| | | | | | Facility Type: Produced Water Inj. Station - Nearest Producing Well is | | | | | | | |
| - | | ease - South | Water St | ation | | | um Unit Well # | | | | _ | |
| | ···· | | | | | | | | | | | |
| face Owner: State of New Mexico Mineral Owner | | | | | | Lease No. 8055 | | | | | | |
| | | | | LOCA | ATIO | N OF RE | LEASE | | _ | | | r |
| t Letter F | Section 14 | Township 17S | Range 34E | Feet from the | Norti | 1/South Line | Feet from the | East/V | Vest Line | County: I | .ea | |
| | • | • | Lati | itude: N 32° 50 | | ' Longitud | | 54.3" | | | | |
| a of Pale | ase: Produ | and Water | | NAI | UK | | | | 17.7 1 | . | | |
| | | | | Closure Under A | | | Release: Unkno | | | vered: None r of Discovery: | | |
| eduling (| icasc: Fell Inder (ASA) | – 008), Febru | proved for | Closure Under A | Agreed | | Hour of Occurren | ce: | | | | ⁷ |
| | ate Notice | | ary 4, 200 | .7 | | Unknown 03/15/2009/3:00 If YES, To Whom? | | | י חוק סט.כזכנ | <u> </u> | | |
| 1 IIIIIIIICUI | ato Police | | Yes [|] No 🄀 Not R | equired | | , whom? | | | | | |
| Whom? | | | • | | | Date and Hour | | | | | | |
| | course Read | ched? | | | | If YES, Volume Impacting the Watercourse. | | | | | | |
| | | | Yes 🛭 | l No | | 11 120, 1 | ordine impacting | aic was | orcoguisc. | | | ') |
| disposal oride dec | of concrete reases to 12 | on March 11 0 mg/Kg in sa | - 12, 2009 ample fron | n Taken.* Leaka 9. Concentrations n 50 feet below p oit) and no recept | s of ber it or 58 | zene, BTEX a feet below gr | and TPH below R ound in soil boris | RAL of ag sampl | 10 mg/Kg, e. Ground | 50 mg/Kg : water occur | and 5,0 s at app | 000 mg/Kg. proximately |
| cribe Are | a Affected | and Cleanup | Action Tal | ken.* Impact limi | ted to s | oil to approxi | mately 30 feet be | low pit o | r approxin | nately 38 fee | | _ |
| ace. Proj | oosed instal | ling 20-mill li | iner in bott | tom of excavation | n and fi | lling per OCD | approved closur | e plan or | 1 February | 18, 2009. | | |
| reby certi- ilations a lic health uld their che enviro | ify that the ill operators or the envi operations had not be not | information gi are required to ronment. The lave failed to | iven above to report are acceptance adequately OCD accep | e is true and comp nd/or file certain ce of a C-141 rep v investigate and o ptance of a C-141 | olete to release ort by t remedia | the best of my notifications a he NMOCD nate contaminate | y knowledge and and perform corre narked as "Final l tion that pose a th | understa etive act Report" (reat to g | nd that purtions for red does not re round wate | suant to NN leases which lieve the op- er, surface w | h may e crator o ater, h | endanger of liability uman health |
| | | | | | | | OIL CON | ISERY | ATION | <u>IDIVISI</u> | <u>ON</u> | |
| | | 7 | 1 | | | | 7 | -9/ | 7.1 | | | |
| nature: | | | | | - | | · | ~ | -10th | 30m | | • |
| sted Name: Mark Larson, Larson & Associates, Inc. (Consultant) | | | | | Approved by District Supervison NMENTAL ENGINEER | | | | | | | |
| e: Sr. Pro | ject Manag | er / President | | | · | | ate: 4.28:0 | | Expiration | | | 3· % 9: |
| | | laenvironmen | | | | Conditions | | | | Attache | _ | |
| e: 04/27/ | 1000 | DI | a. (433) 6 | (97.000) | | | | | | 1 200-de | | 2.717(|



Agrson & Inc.
Environmental Consultants



Facility Sign



Permanent Pit Prior to Closure Activities



Pit Closure Following Concrete Removal



Another View of Pit Closure Following Concrete Removal



Pit Prepared for Liner Installation



Seaming Liner for Installation



Liner Being Placed into Pit



Backfilling Excavation



Terraforming Excavation



Growth on Reseeded Site

CONTROLLED RECOVERY, INC.

P.O. Box 388 · Hobbs, New Mexico 88241-0388 · (575) 393-1079 · www.crihobbs.com NMOCD Order R9166

| Bill to | | | | | | | |
|---|---|--|---|---|---|--|--|
| Address | | | | • | | | |
| | | | | | | | |
| Company/Generator | X TO | | · · · · · · · · · · · · · · · · · · · | | | · | |
| Lease Name | BRANCEY | 5T D | Mages | | | | |
| Trucking Company | ocoilsio | Vehicle I | Number 1/09 | Driver (Print) | DM OND | | |
| Date 3-/9- | 09 | | Time //:/5 | | <u> </u> | .m) / p.m. | |
| | | Тур | e of Material | | | | |
| | Soils | | # | fing. | 17/10 | | |
| Tank Bottoms | Other Material (| | | Area | 5.4/5) | | |
| | | | ESCRIPTION | | | | |
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| | | ` | | | | | |
| Volume of Material | D Bbls. | | | | Gallons | | |
| ☐ Wash Out | ☐ Call Out | | After Hours | , | Debris Charg | go ' ' | |
| 1988/regulatory determing RCRA Exempt: Oil waste. □ RCRA Non-Exempt characteristics establis | nation, the above des field wastes genera ot: Oil field waste whi thed in RCRA regulat | cribed waste is: (Ch ted from oil and ga nich is non-hazardo ions, 40 CFR 261.2 | d Recovery Act (RCRA) and neck the appropriate classific sexploration and production out that does not exceed to 1-261.24, or listed hazardous instrate the above-described | cation) n operations and he minimum stan s waste as defined | are not mixed with dards for waste h in 40 CEB, part 26 | non-exempt azardous by 1, subpart D, | |
| ☐. MSDS information | RCRA Hazardous | Waste Analysis | 🗖 Process Knawledge 🔟 | Other (Provide de | escription above) | | |
| CRI Approval # | | | and an arm of the same | m ye y | | | |
| Agent | I much & | 1600 | | | • | | |
| (Signature) | | 1// | | | | | |
| CRI Representative _ | M/OM | Moto | | | | | |
| | (Signature) | | | | | | |
| ANK BOTTOMS | East 1 | nches | · | | | | |
| 1st Gauge | Feet | nones | BS&W/BBLS Received | | BS&W | % | |
| 2nd Gauge | | | Free Water, | | | · · · | |
| Received | | | Total Received | 1337 | , | | |
| . : | | | 10/41 1/6/64/60 | | 045 | 020 : | |
| _ | | | | | 272 | ପ୍ରସ୍ତ 🔻 | |

White - CRI

Canary - CRI Accounting

Pink - CRI Plant

Gold - Transporter THE COLOR PRINTER - #7521