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

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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
Revised June 6, 2013

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.
For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Type of action:
- ☐ Below grade tank registration
- ☐ Permit of a pit or proposed alternative method
- ☒ Closure of a pit, below-grade tank, or proposed alternative method
- ☐ Modification to an existing permit/or registration
- ☐ Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.
Operator: Chevron, USA OGRID #:
Address: 56 Texas Camp Road, Lovington, New Mexico 88260
Facility or well name: New Mexico "O" State NCT-1 #40
API Number: 30-025-38140 OCD Permit Number:
U/L or Qtr/Qtr J Section 36 Township 17S Range 34E County: Lea
Center of Proposed Design: Latitude N 32.7893° Longitude W 103.5123° NAD: ☐1927 ☐ 1983
Surface Owner: ☐ Federal ☒ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.
☒ **Pit:** Subsection F, G or J of 19.15.17.11 NMAC
Temporary: ☒ Drilling ☐ Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☐ no
☒ Lined ☐ Unlined Liner type: Thickness 20 mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other Synthetic
☐ String-Reinforced
Liner Seams: ☐ Welded ☐ Factory ☐ Other Volume: bbl Dimensions: L x W x D

3.
☐ **Below-grade tank:** Subsection I 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: Thickness mil ☐ HDPE ☐ PVC ☐ Other

4.
☐ **Alternative Method:**
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

5.
Fencing: Subsection D of 19.15.17.11 NMAC *(Applies to permanent pits, temporary pits, and below-grade tanks)*
☐ Chain link, six feet in height, two strands of barbed wire at top *(Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)*
☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet
☐ Alternate. Please specify

6.

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)

7.

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 19.15.16.8 NMAC

8.

Variances 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:

☐ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.

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

9.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. **Siting criteria does not apply to drying pads or above-grade tanks.**

General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - ☐ NM Office of the State Engineer - iWATERS database search; ☐ USGS; ☐ Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit . NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
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. **(Does not apply to below grade tanks)** - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. **(Does not apply to below grade tanks)** - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. **(Does not apply to below grade tanks)** - 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. **(Does not apply to below grade tanks)** - FEMA map	☐ Yes ☐ No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a occupied 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 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any 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 spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Permanent Pit or Multi-Well Fluid Management Pit	
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 1000 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 spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

10.
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: _____

11.
Multi-Well Fluid Management Pit 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.

☐ 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
☐ A List of wells with approved application for permit to drill associated with the pit.
☐ 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
☐ Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

12.
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_2S, 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

13.
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 ☐ Multi-well Fluid Management Pit ☐ 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

14.
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 C 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 H of 19.15.17.13 NMAC
- ☒ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

15.
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC
Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 25 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 25-50 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 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 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, 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 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, 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
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; 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 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

16.
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) ***Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.***

- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC
- ☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K 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 19.15.17.13 NMAC
- ☐ Waste Material Sampling Plan - based upon the appropriate requirements 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 H of 19.15.17.13 NMAC
- ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

17.
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: _____

18.
OCD Approval: ☐ Permit Application (including closure plan) ☒ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: _____ **Approval Date:** _____

Title: _____ **OCD Permit Number:** _____

19.
Closure Report (required within 60 days of closure completion): 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:** July 9, 2013

20.
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.

21.
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 for private land only)
- ☒ 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

22.

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): Kegan Boyer Title: CEMC – Project Manager

Signature: Kegan Boyer Date: 10/14/13

e-mail address: kegan.boyer@chevron.com Telephone: (713) 372-7705

CONESTOGA-ROVERS
& ASSOCIATES

2135 South Loop, 250 West, Midland, Texas 79703
Telephone: (432) 686-0086 Fax: (432) 686-0186
www.CRAworld.com

September 30, 2013

Reference No. 073824

Mr. Geoffrey R. Leking
Environmental Engineer Specialist
New Mexico Oil Conservation Division, District I
1625 N. French Drive
Hobbs, NM 88240

Dear Mr. Leking:

Re: Pit Closure Report (As Attachment to Form C-144)
New Mexico "O" State NCT-1 #40 – RP #2673
Section 36 (Unit J), Township 17 South, Range 34 East
Lea County, New Mexico

The subject location is the Chevron New Mexico "O" State NCT-1 #40 (hereafter referred to as the "Site"). The Site is located in Unit Letter J, Section 36, Township 17 South, Range 34 East, Lea County, New Mexico. The approximate pit excavation dimensions are 155' x 170' x 200' with an average depth of 6'. The Site coordinates are N 32.7893°, W 103.5123°. The Site location is shown on Figure 1.

SITE HISTORY

On April 7, 2010, Chevron submitted a C-144 Form proposing pit closure. The original C-144 closure plan for this reserve pit was onsite burial; however, that approach was rejected by the New Mexico Oil Conservation Division (NMOCD). The original C-144 Form is attached as Appendix A. After a site inspection by the NMOCD, the agency requested that a C-141 Release Notification and Corrective Action Form should be filed by Chevron and consequently, a Remediation Permit number (RP#2673) was assigned to this project. The original C-141 Form is attached in Appendix B.

On January 11, 2011, CRA, CEMC and AECOM met at the NMOCD District I Hobbs office to discuss the path forward at the Site. Topics of discussions included modifications (waste excavation and removal vs. onsite trench burial) to the 2010 Closure Workplan and objectives necessary to close the pit as directed by the NMOCD District I Hobbs office.

Subsequent to the January 11, 2011 meeting between CRA, CEMC, AECOM and the NMOCD - a Closure Request Workplan prepared by CRA (April 13, 2011) on behalf of Chevron was submitted to the NMOCD.

Subsequent to the Closure Request Workplan prepared by CRA (April 13, 2011), CRA, Chevron (David Pagano) and Mr. Geoffery Leking met at the NMOCD District I Hobbs office on June 27, 2012 to discuss the path forward at the Site. Topics of discussion included the over-excavation of pit materials to depths of 4-5 feet, off-site disposal of pit materials to an NMOCD-permitted facility, delineation/confirmation sampling of excavation floor, subsurface (as appropriate), site restoration tasks as proposed in the workplan, backfilling, lining, grading, seeding and closure documentation (C-141 Final and C-144 Pit Closure) being submitted upon NMOCD concurrence of vertical delineation of the Site.

Final C-141 Report, including documentation of 2013 delineation and assessment activities is being filed with the NMOCD under a separate cover.

SITE ASSESSMENT AND CONFIRMATION SOIL SAMPLING

Initial Site assessment and soil sampling activities were completed in accordance with the New Mexico Oil Conservation Division's (NMOCD's) guidance document *Guidelines for Remediation of Leaks, Spills and Releases,* dated August 13, 1993. Section III of the guidance document provides three general characteristics (Depth to groundwater, Wellhead Protection Area, Distance to Nearest Surface Water Body) to "evaluate a Site's potential risk, the need for remedial action and the level of cleanup, if necessary, required at the Site." Section IV provides ranking criteria for each site-specific characteristic to determine their relative threat to the public, fresh waters and the environment. The sum of each individual characteristic equals the total ranking score. The total ranking score determines the recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (BTEX), total petroleum hydrocarbons (TPH) and chloride in soil.

According to the Petroleum Recovery Research Center (PRRC) database and the New Mexico Office of the State Engineer (NMOSE), there are several water wells in the general vicinity of the Site and the average depth to groundwater in the vicinity of the Site is approximately 107 feet below ground surface (bgs). Appendix C is a topographic map depicting the average depths to groundwater, distance to surface water bodies and any wellheads. Based on average depth to groundwater (>100 feet below ground surface), Wellhead Protection (water source <1,000 feet & <200 feet private) and surface body of water (>1,000 feet) for the Site, the RRALs were determined to be 10 mg/kg for benzene, 50 mg/kg for BTEX, and 100mg/kg for TPH (Guidelines for Remediation of Leaks, Spills, and Releases, August 13, 1993). The RRAL for chloride was determined to be 500 mg/kg based on the NMOCD's Guidance for Release Reporting and Corrective Actions under Rules 29 and 30 of the Oil and Gas Regulations (DRAFT), September 30, 2011 guidance.

On March 13, 2013, CRA and Entact of Dallas, Texas mobilized to the Site to perform soil assessment activities. Heavy equipment was utilized to obtain soil samples from 4 inches, 2 feet and 6 feet below the existing liner. No hydrocarbons were detected above the regulatory levels; however, chloride concentrations exhibited elevated concentrations well above recommended remediation and delineation levels. The chloride concentrations for the 4 inch, 2 feet and 6 feet intervals were 10,500, 11,900 and 9,250 mg/kg respectively.

On March 19, 2013, CRA and Entact mobilized to the Site to begin excavation activities. A total of approximately 3,366 cubic yards (cy) of material was removed from the existing remedial excavation, with floor depths ranging from 4-10 feet bgs.

In May 2013, after discussions and approval from the NMOCD Hobbs District I office, three soil borings (SB-1, SB-2 and SB-3) were installed within the existing remedial excavation to a depth of 100 feet below ground surface bgs. Soil samples were collected at 5 to 10 foot intervals in an effort to horizontally and vertically evaluate the extent of chloride impacts. All three soil borings SB-1 (70'-69.8 mg/kg), SB-2 (70'-108 mg/kg) and SB-3 (70'-29.8 mg/kg) demonstrated decreasing chloride levels with depth to well below recommended remediation and delineation levels. Analytical results are summarized in Table I. A soil cross section depicting subsurface conditions is provided in Figure 2. Certified Laboratory Reports for the 2013 soil boring sampling events are provided in Appendix D.

PROTOCOLS AND PROCEDURES

On June 5, 2013, CRA and CEMC met with Geoffrey Leking, Environmental Engineer Specialist, of the NMOCD District I Hobbs office to discuss the protocols and procedures required for closure of the reserve pit. Meeting discussions included the following:

- The vertical and horizontal delineation of chloride and (any) hydrocarbon impacts had been achieved to the satisfaction of the NMOCD District I office.
- Procedures for excavation and backfilling of imported clean materials (caliche and sandy soils) from approximately 4-10 feet to 4 feet below grade to ensure a uniform/level surface.
- Procedures for installation of a 20 mil poly liner in the excavated area and procedures for backfilling the remaining excavation with clean materials.
- Procedures to complete backfill activities utilizing clean top soil (1-2 ft.) and use of heavy machinery for grading purposes.
- Procedures for construction affected areas of pit floor/release site to be graded to match surface contours and seeded using mixtures utilized by local agencies such as the BLM, County Ag Agency and/or as directed by property owner.

- Protocol for submittal of final C-144 Form (Pit Closure) to the NMOCD summarizing Site closure activities.

DISPOSAL FACILITY NAME AND PERMIT NUMBER

CRA was responsible for managing waste associated with the 2013 project activities (3,366 cy). Controlled Recovery, Inc. (CRI) of Hobbs, New Mexico was utilized as the disposal facility for impacted soils. The permit number for CRI is R9166. CRI is an NMOCD and Chevron approved facility. The material was loaded into trucks provided by RWI Construction, Inc. (RWI). Each truck leaving the Site was provided with a uniquely numbered non-hazardous waste manifest to accompany each load. The manifest was signed by the generator (CEMC's agent), the transporter and finally by the CRI landfill's representative. Waste manifests utilized between March 20, 2013 and March 27, 2013 were labeled incorrectly with Central Vacuum Unit #342 information. Correspondence between CRA and CRI landfill on March 27, 2013 identified the incorrectly labeled manifests and addressed the issue, ultimately being resolved with the assistance of CRI landfill agents. Table II indicates the waste manifests that were incorrectly labeled with the Central Vacuum Unit #342.Table II also provides disposal volumes (in cubic yards), as well as manifest and vehicle numbers for the waste material that was transported off of the Site. Copies of the Manifests are included in Appendix F in electronic form on a CD.

SOIL BACKFILL AND COVER DESIGN SPECIFICATIONS

The excavation was backfilled with imported clean materials (caliche and sandy soils) from approximately 4-10 feet to 4 feet below grade to ensure a uniform/level surface. A 20 mil poly liner was emplaced in excavated area and the excavation was backfilled with clean materials.

Backfill activities were completed utilizing clean top soil (1-2 ft.) and use of heavy machinery for grading purposes.

RE-VEGETATION ACTIVITIES

Re-vegetation activities included "construction affected areas of release Site". Heavy machinery was used to grade the Site to approximate original surface contour to minimize erosion. Topsoil was ripped, seeded with an approved native grass, and fertilized to ensure maximum growth potential.

SITE RECLAMATION

The field implementation of the approved Site closure activities began on March 7, 2013. Entact of Dallas, Texas provided labor, heavy equipment and pit lining material. RWI of Hobbs, New Mexico provided haul trucks required for the field operations. CRA was responsible for the overall coordination of field operations, project management tasks and the safety of all CRA employees working on Site. Photos documenting Site reclamation activities are presented in Appendix E.

After meeting with the NMOCD, approved restoration activities at the Site began on July 1, 2013 with the staging of heavy equipment near the borrow pit and excavated pit areas. Backfill of the excavated pit areas began on July 1, 2013. Installation of excavated pit liner (20 mil) started and was completed on July 5, 2013 by Entact. RWI transported approximately 4,032 cubic yards (cy) of clean fill that was obtained from an off-site borrow pit owned by the Pearce Ranch Trust. Backfill activities were concluded on July 8, 2013, with the Site being graded to minimize erosion, ripped with heavy machinery and seeded with a New Mexico native seed mixture (BLM#4). On July 9, 2013, equipment was demobilized from the Site. Site restoration activities and locations are depicted on Figure 3.

RECOMMENDATIONS

CRA recommends no further action be required for the Site and requests closure of the New Mexico "O" State NCT-1 #40 Pit (RP #2673). Attached to the front of this closure report is a completed and signed Form C-144.

CONESTOGA-ROVERS
& ASSOCIATES

September 30, 2013 Reference No. 073824

If you have any questions or comments with regards to this closure request, please do not hesitate to contact our Midland office at (432) 686-0086.

Yours truly,

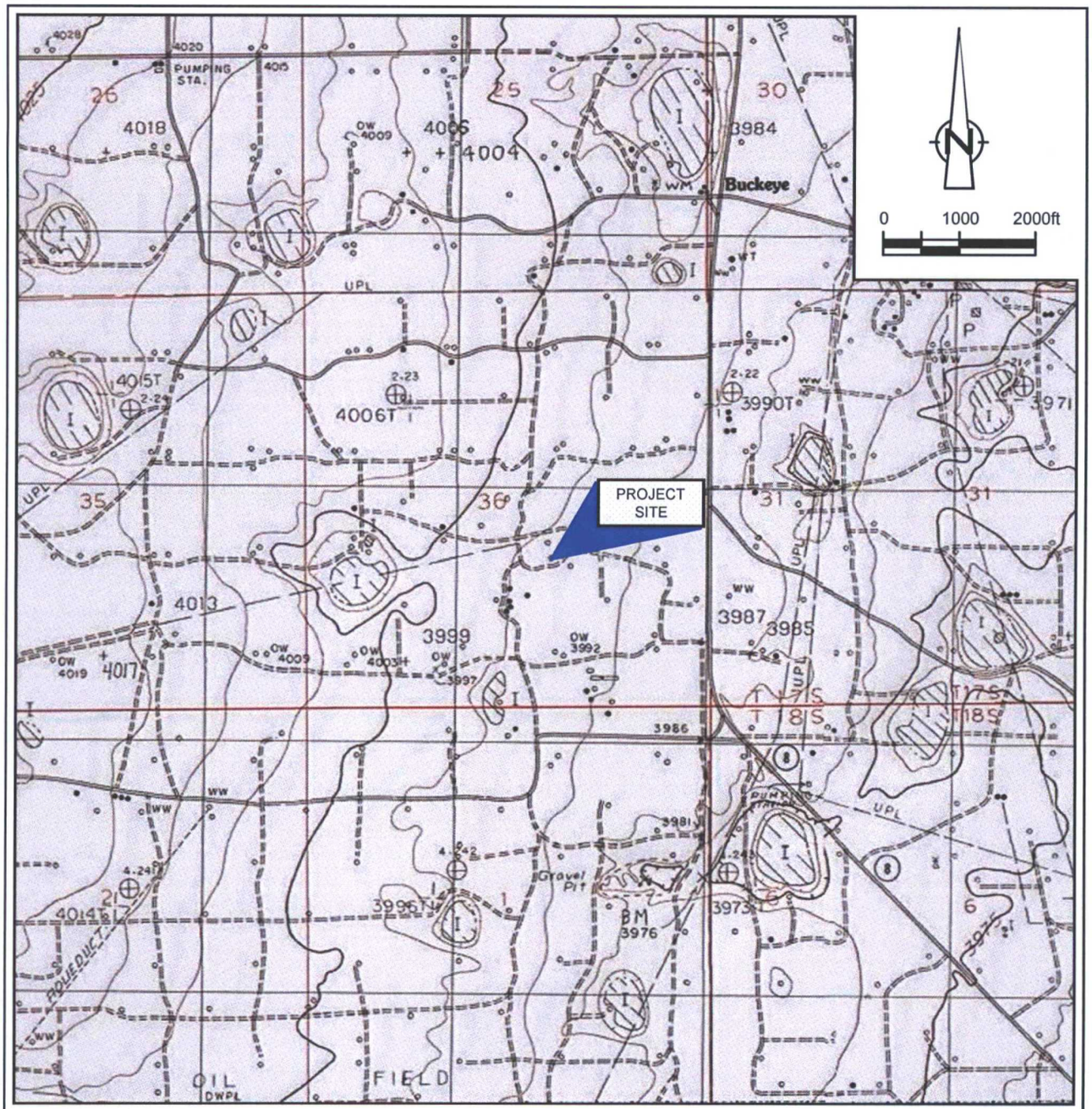
CONESTOGA-ROVERS & ASSOCIATES

Jake Ferenz
Project Manager

Thomas C. Larson
Midland Operations Manager

JF/pd/2
cc: Mr. David Pagano (Chevron Buckeye FMT) w/encl.
Mr. Kegan Boyer (CEMC Houston) w/encl.

Encl: Figure 1 – Site Location Map
Figure 2 – Soil Cross-Section Map
Figure 3 – Site Restoration Map
Table I – Soil Boring Analytical Summary
Table II – Waste Inventory
Appendix A – Original C-144 Form
Appendix B – Original C-141 Form
Appendix C – Petroleum Recovery Research Center Distance-to-Groundwater Radius Map
Appendix D – Certified Laboratory Reports
Appendix E – Site Reclamation Photo Documentation
Appendix F – Waste Manifests (CD)



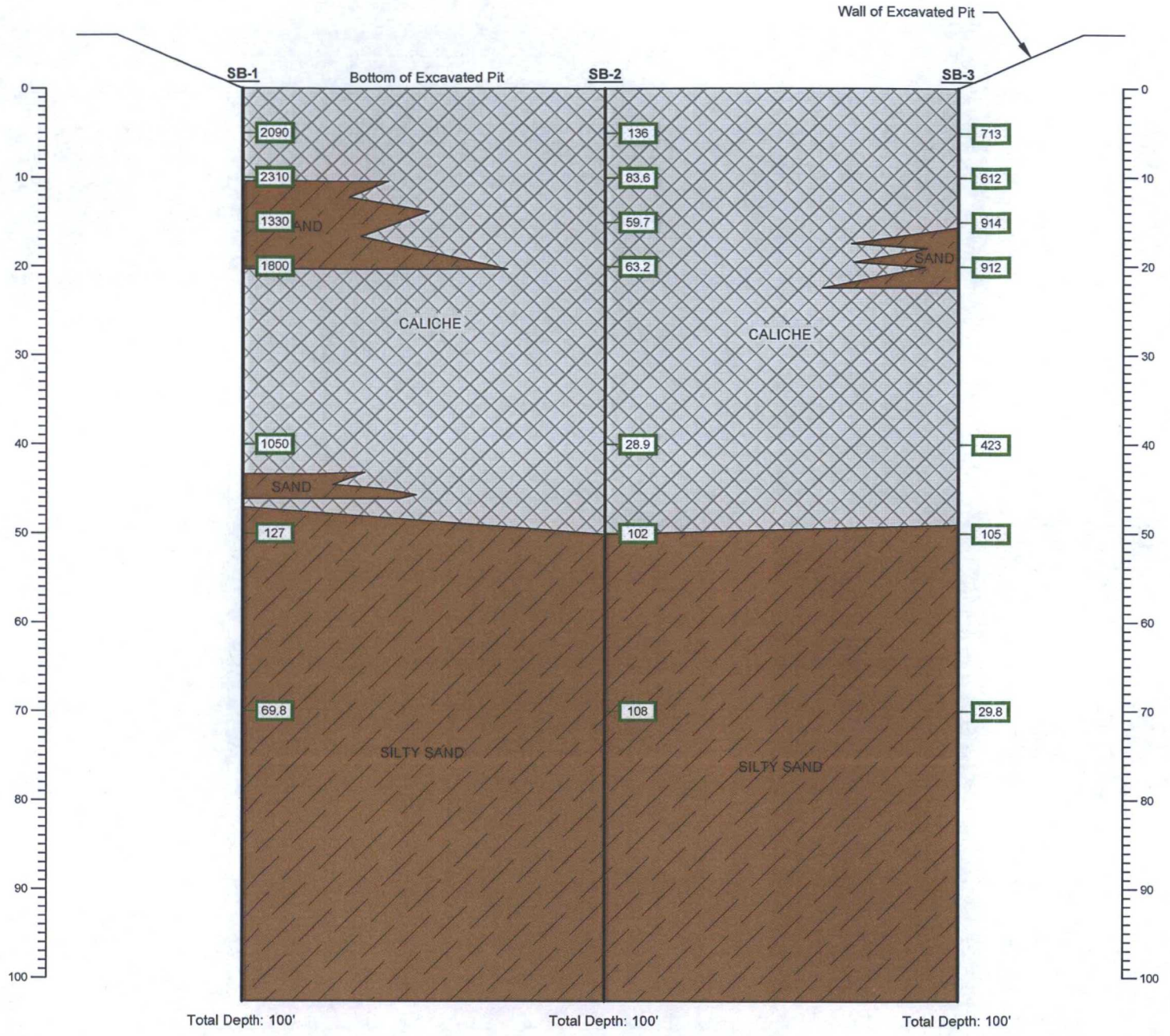
SOURCE: USGS 7.5 MINUTE QUAD
"BUCKEYE AND LOVINGTON SW, NEW MEXICO"

LAT/LONG: 32.7893° NORTH, 103.5123° WEST
COORDINATE: NAD83 DATUM, U.S. FOOT
STATE PLANE ZONE - NEW MEXICO EAST

figure 1

SITE LOCATION MAP
NEW MEXICO "O" STATE #40 PIT
SECTION 36, T17S, R34E (RP#2673)
Chevron Environmental Management Company

073824-00(000)GN-DL001_PleaseErasePrevious MAR 22/2013

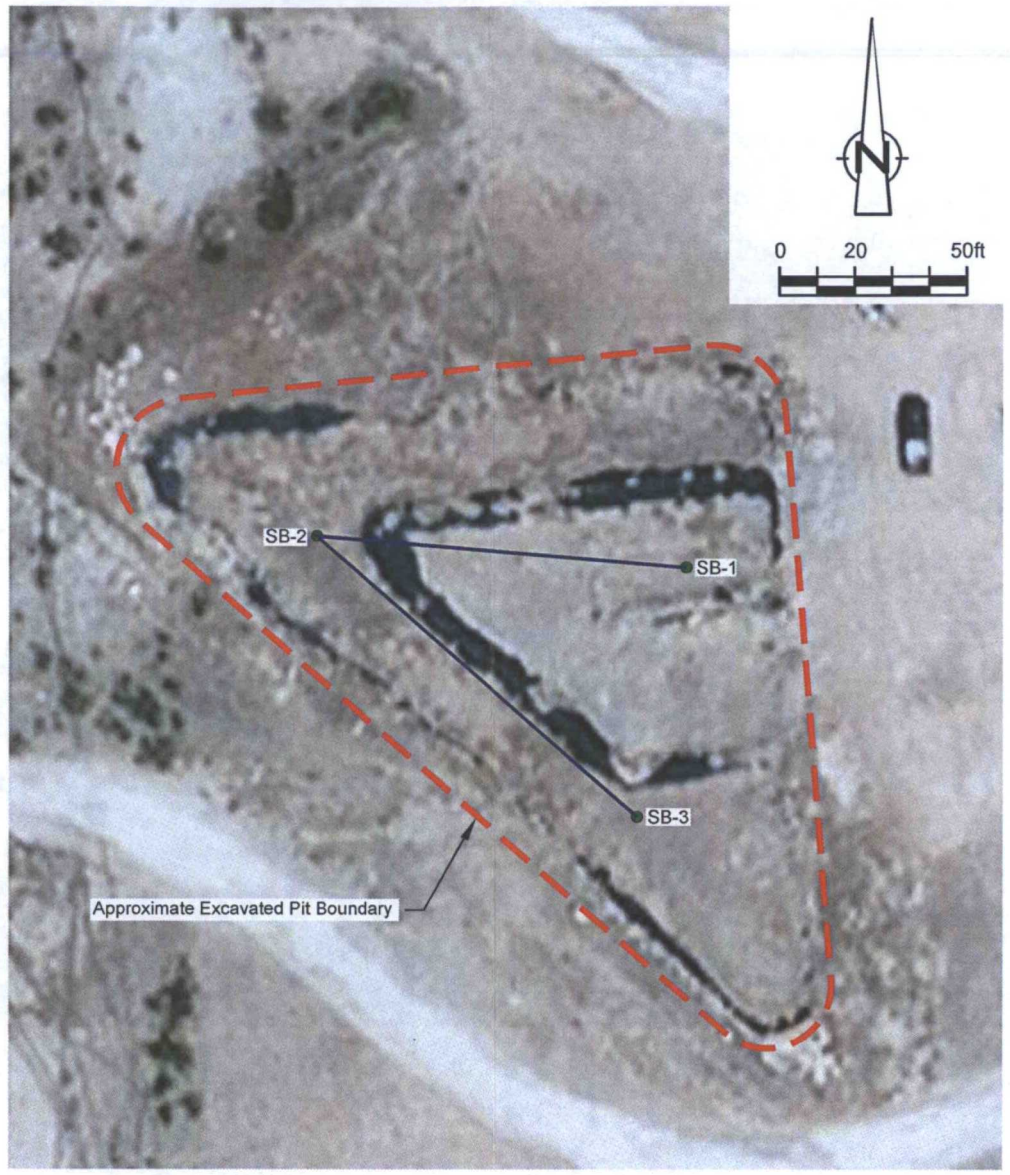


431 Chloride Concentration (mg/kg)
Analysis by EPA Method 300/300.1.

SOIL DESCRIPTIONS

CALICHE - White, tan, dry, indurated at top of unit. Dense to very dense, increasing in silty sands toward base of unit.

SILTY SAND - Reddish brown, tan, firm to dense, moist toward bottom of unit.



NOTES:

1. Soil borings advanced May 7 and 8, 2013.
2. Samples evaluated using drill cuttings and split spoon sampler.
3. Boundaries between soil units are approximate.
4. Harrison & Cooper (Lubbock, Texas) drilling contractor. Six-inch borehole using Ingersol Rand 11RTH60 (2006) drill rig.
5. All borings plugged with drill cuttings and approximately 20 bags of bentonite.

figure 2

SOIL CROSS-SECTION
NEW MEXICO "O" STATE #40 PIT
SECTION 36, T17S, R34E (RP#2673)
Chevron Environmental Management Company

NOTES:

1. See June 5, 2013 submittal to NMOCD for RP 2673 details and historical data.
2. Approximately 3,366 CY of impacted soils removed from Site and transported to CRI Landfill in Hobbs, New Mexico.
3. Approximately 4,032 CY of clean caliche/top soil transported from off-Site borrow pit (Pearce Ranch Trust) for use as backfill.

LAT/LONG: 32.7893° NORTH, 103.5123° WEST
COORDINATE: NAD83 DATUM, U.S. FOOT
STATE PLANE ZONE - NEW MEXICO EAST

figure 3

SITE RESOTRATION MAP
NEW MEXICO "O" STATE #40 PIT
SECTION 36, T17S, R34E (RP#2673)
Chevron Environmental Management Company

TABLE I

SOIL BORING ANALYTICAL SUMMARY
NEW MEXICO "O" STATE #40
LEA COUNTY, NEW MEXICO

Sample ID	*Sample Date*	*Depth (feet bgs)*	*Chloride*
			(mg/kg)
NMOCD Remediation Action Levels (Total Ranking Score = 10)			*500*
SB-1			
SB-1-5'	5/7/2013	5'	2,090
SB-1-10'	5/7/2013	10'	2,310
SB-1-15'	5/7/2013	15'	1,330
SB-1-20'	5/7/2013	20'	1,800
SB-1-40'	5/7/2013	40'	1,050
SB-1-50'	5/7/2013	50'	127
SB-1-70'	5/7/2013	70'	69.8
SB-1-90'	5/7/2013	90'	NA
SB-2			
SB-2-5'	5/8/2013	5'	136
SB-2-10'	5/8/2013	10'	83.6
SB-2-15'	5/8/2013	15'	59.7
SB-2-20'	5/8/2013	20'	63.2
SB-2-40'	5/8/2013	40'	28.9
SB-2-50'	5/8/2013	50'	102
SB-2-70'	5/8/2013	70'	108
SB-2-90'	5/8/2013	90'	NA
SB-3			
SB-3-5'	5/8/2013	5'	713
SB-3-10'	5/8/2013	10'	612
SB-3-15'	5/8/2013	15'	914
SB-3-20'	5/8/2013	20'	912
SB-3-40'	5/8/2013	40'	423
SB-3-50'	5/8/2013	50'	105
SB-1-70'	5/8/2013	70'	29.8
SB-3-90'	5/8/2013	90'	NA

Notes:

1. Chlorides analyzed by E300.0
2. NA - indicates sample was not analyzed
3. Highlighted cells indicated concentrations above regulatory guidelines
4. Chloride - RRALs based on NMOCD September 30, 2011 (DRAFT) guidance Release Reporting and Corrective Actions Under Rule 29 & 30

TABLE II
WASTE INVENTORY
NEW MEXICO "O" STATE #40
LEA COUNTY, NEW MEXICO

DATE	*TRUCK NUMBER*	*MANIFEST NUMBER*	*QUANTITY OF WASTE cubic yards*
3/20/2013	13	487276	18
3/20/2013	13	487224	18
3/20/2013	13	487175	18
3/20/2013	151	487273	18
3/20/2013	151	487215	18
3/20/2013	151	487168	18
3/20/2013	5	487174	18
3/20/2013	5	487220	18
3/20/2013	5	487274	18
3/20/2013	720	487212	18
3/20/2013	720	487169	18
3/20/2013	720	487275	18
3/20/2013	7	487171	18
3/20/2013	7	487272	18
3/20/2013	7	487217	18
3/20/2013	7	487271	18
3/20/2013	7	487216	18
3/20/2013	7	487173	18
3/20/2013	10	487230	18
3/20/2013	10	487280	18
3/20/2013	10	487637	18
3/21/2013	13	487520	18
3/21/2013	13	487562	18
3/21/2013	13	487634	18
3/21/2013	151	487556	18
3/21/2013	151	487509	18
3/21/2013	151	487622	18
3/21/2013	5	487517	18
3/21/2013	5	487626	18
3/21/2013	5	487559	18
3/21/2013	720	487623	18
3/21/2013	720	487511	18
3/21/2013	720	487555	18
3/21/2013	7	487632	18
3/21/2013	7	487508	18
3/21/2013	7	487560	18
3/21/2013	7	487624	18
3/21/2013	7	487512	18
3/21/2013	7	487557	18
3/21/2013	10	487564	18
3/21/2013	10	******	18
3/21/2013	10	487514	18
3/22/2013	13	487877	18
3/22/2013	13	487829	18
3/22/2013	13	487784	18
3/22/2013	151	487782	18
3/22/2013	151	487828	18

TABLE II
WASTE INVENTORY
NEW MEXICO "O" STATE #40
LEA COUNTY, NEW MEXICO

DATE	*TRUCK NUMBER*	*MANIFEST NUMBER*	*QUANTITY OF WASTE cubic yards*
3/22/2013	151	487876	18
3/22/2013	5	487884	18
3/22/2013	5	487832	18
3/22/2013	5	487791	18
3/22/2013	1	487888	18
3/22/2013	720	487882	18
3/22/2013	720	487788	18
3/22/2013	720	487830	18
3/22/2013	7	487889	18
3/22/2013	7	487799	18
3/22/2013	7	******	18
3/22/2013	7	487839	18
3/22/2013	7	487792	18
3/22/2013	7	487831	18
3/22/2013	12	487797	18
3/22/2013	12	487843	18
3/22/2013	12	487896	18
3/22/2013	1	487798	18
3/22/2013	1	487834	18
3/23/2013	13	488162	18
3/23/2013	13	488083	18
3/23/2013	13	488110	18
3/23/2013	151	488088	18
3/23/2013	151	488118	18
3/23/2013	151	488167	18
3/23/2013	5	488164	18
3/23/2013	5	488113	18
3/23/2013	5	488087	18
3/23/2013	720	488109	18
3/23/2013	720	488080	18
3/23/2013	720	488157	18
3/23/2013	7	488086	18
3/23/2013	7	488160	18
3/23/2013	7	488114	18
3/23/2013	7	488159	18
3/23/2013	7	488112	18
3/23/2013	7	488082	18
3/23/2013	12	488081	18
3/23/2013	12	488106	18
3/23/2013	12	488163	18
3/23/2013	1	488153	18
3/23/2013	1	488105	18
3/23/2013	1	488076	18
3/25/2013	13	488525	18
3/25/2013	13	488616	18
3/25/2013	13	488568	18
3/25/2013	151	488614	18

TABLE II
WASTE INVENTORY
NEW MEXICO "O" STATE #40
LEA COUNTY, NEW MEXICO

DATE	*TRUCK NUMBER*	*MANIFEST NUMBER*	*QUANTITY OF WASTE cubic yards*
3/25/2013	151	488522	18
3/25/2013	151	488562	18
3/25/2013	5	488524	18
3/25/2013	5	488617	18
3/25/2013	5	488567	18
3/25/2013	720	488622	18
3/25/2013	720	488573	18
3/25/2013	720	488526	18
3/25/2013	7	488618	18
3/25/2013	7	488565	18
3/25/2013	7	488521	18
3/25/2013	7	488523	18
3/25/2013	7	488566	18
3/25/2013	7	488615	18
3/25/2013	12	488625	18
3/25/2013	12	488574	18
3/25/2013	12	488528	18
3/25/2013	1	488613	18
3/25/2013	1	488563	18
3/25/2013	1	488520	18
3/26/2013	13	488904	18
3/26/2013	13	488858	18
3/26/2013	13	488811	18
3/26/2013	151	488894	18
3/26/2013	151	488849	18
3/26/2013	151	488802	18
3/26/2013	5	488805	18
3/26/2013	5	488852	18
3/26/2013	5	488899	18
3/26/2013	720	488910	18
3/26/2013	720	488857	18
3/26/2013	720	488808	18
3/26/2013	7	488804	18
3/26/2013	7	488851	18
3/26/2013	7	488901	18
3/26/2013	7	488861	18
3/26/2013	7	488812	18
3/26/2013	7	488911	18
3/26/2013	12	488903	18
3/26/2013	12	488806	18
3/26/2013	12	488853	18
3/26/2013	1	488847	18
3/26/2013	1	488803	18
3/26/2013	1	488895	18
3/27/2013	1	489174	18
3/27/2013	1	489230	18
3/27/2013	1	489111	18

TABLE II
WASTE INVENTORY
NEW MEXICO "O" STATE #40
LEA COUNTY, NEW MEXICO

DATE	*TRUCK NUMBER*	*MANIFEST NUMBER*	*QUANTITY OF WASTE cubic yards*
3/27/2013	5	489173	18
3/27/2013	5	489232	18
3/27/2013	5	489112	18
3/27/2013	7	489182	18
3/27/2013	7	489235	18
3/27/2013	7	489121	18
3/27/2013	12	489249	18
3/27/2013	12	489109	18
3/27/2013	12	489171	18
3/27/2013	13	489116	18
3/27/2013	13	489176	18
3/27/2013	13	489234	18
3/27/2013	151	489224	18
3/27/2013	151	489170	18
3/27/2013	151	489110	18
3/27/2013	720	489239	18
3/27/2013	720	489181	18
3/27/2013	720	489119	18
3/28/2013	5	489439	18
3/28/2013	7	489443	18
3/28/2013	7	489436	18
3/28/2013	12	489449	18
3/28/2013	13	489441	18
3/28/2013	151	489435	18
3/28/2013	720	489434	18
4/2/2013	5	490687	18
4/2/2013	5	490757	18
4/2/2013	5	490833	18
4/2/2013	7	490690	18
4/2/2013	7	490765	18
4/2/2013	7	490835	18
4/2/2013	7	490832	18
4/2/2013	7	490679	18
4/2/2013	7	490746	18
4/2/2013	10	490760	18
4/2/2013	10	490688	18
4/2/2013	10	490829	18
4/2/2013	13	490834	18
4/2/2013	13	490763	18
4/2/2013	13	490689	18
4/2/2013	151	490739	18
4/2/2013	151	490676	18
4/2/2013	151	490831	18
4/2/2013	720	490830	18
4/2/2013	720	490755	18
4/2/2013	720	490684	18
			Total: 3,366

Chevron

Rodney Bailey
Environmental Advisor

Chevron North America
Exploration and Production
Mid Continent Business Unit/HES
15 Smith Rd
Midland, Texas 79705
Office 432-687-7123
Cell 432-894-3519
Fax 866-569-5650

April, 7 2010

Mr. Larry Johnson
NMOCD District Office
1625 N. French Drive
Hobbs, New Mexico 88240

Re: Drilling Pits; Central Vacuum Unit 342 and New Mexico O-40, Closure Plans;
CVU 342, S 36, T 17S, R 34 E, API # 30-025-38002
NM O-40, S 36, T 17S, R 34 E, API # 30-025-38140

Chevron would like to submit this work plan for the closure of drilling pits CVU 342 and NM O-40. Also attached are Pit closure form C-144 for each location.

- Chevron will excavate each pit and liner and store the material adjacent to the excavation.
- The soil beneath the temporary pit will be sampled to determine whether a release has occurred. If a release has occurred Chevron will excavate or blend the soil till closure limits stated in 19.15.17.13.(B) (1) (b) (i) are reached.
- A 20 mil poly liner with welded seams will be placed in the excavation
- The previously excavated material will be returned to the pit, on top of the pit liner. The pit liner will be folded over the backfilled material. (original pit contents)
- A second pit liner will be placed on top of the back filled pit. Clean soil will be used as backfill on top of the liner. The center will be slightly mounded to promote rain water runoff and keep it from pooling in the center.
- Area will be contoured to match surrounding area
- Area will be seeded with NMOCD approved seed.

Chevron will began closure of these drilling pits as soon as we receive NMOCD approval.

If you have any questions please call me at 432-687-7123.

Respectfully,

Rodney Bailey
Environmental Advisor
Chevron North America

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

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

Form C-144
July 21, 2008

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

Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Type of action: ☐ Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
☐ Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
☐ Modification to an existing permit
☐ Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.
Operator: Chevron OGRID #:
Address: 15 Smith Rd Midland Tx 79705
Facility or well name: New Mexico O-40
API Number: 30-025-38140 OCD Permit Number:
U/L or Qtr/Qtr O Section 36 Township 17S Range 34E County: Lea
Center of Proposed Design: Latitude Longitude 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 20 mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
☐ String-Reinforced
Liner Seams: ☑ Welded ☐ Factory ☐ Other Volume: bbl Dimensions: L x W x D

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

4.
☐ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC
Volume: 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: Thickness mil ☐ HDPE ☐ PVC ☐ Other

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

6.

Fencing: Subsection D of 19.15.17.11 NMAC *(Applies to permanent pits, temporary pits, and below-grade tanks)*

☐ Chain link, six feet in height, two strands of barbed wire at top *(Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)*

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

☐ Alternate. Please specify_____

7.

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

☐ Screen ☐ Netting ☐ Other_____

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

8.

Signs: Subsection C of 19.15.17.11 NMAC

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

☐ Signed in compliance with 19.15.3.103 NMAC

9.

Administrative Approvals and Exceptions:

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

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

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

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

10.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC

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

Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☒ No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. *(Applies to temporary, emergency, or cavitation pits and below-grade tanks)* - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☒ No ☐ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. *(Applies to permanent pits)* - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☒ No ☐ NA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☒ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☒ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☒ No
Within a 100-year floodplain. - FEMA map	☐ Yes ☒ No

11.
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
- ☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☑ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

12.
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
- ☐ Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____

☐ Previously Approved Operating and Maintenance Plan API Number: _____ *(Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)*

13.
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Climatological Factors Assessment
- ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Quality Control/Quality Assurance Construction and Installation Plan
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Nuisance or Hazardous Odors, including H_2S, Prevention Plan
- ☐ Emergency Response Plan
- ☐ Oil Field Waste Stream Characterization
- ☐ Monitoring and Inspection Plan
- ☐ Erosion Control Plan
- ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

14.
Proposed Closure: 19.15.17.13 NMAC
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

Type: ☑ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☐ Below-grade Tank ☐ Closed-loop System
☐ Alternative

Proposed Closure Method:
- ☐ Waste Excavation and Removal
- ☐ Waste Removal (Closed-loop systems only)
- ☐ On-site Closure Method (Only for temporary pits and closed-loop systems)
  - ☑ In-place Burial ☑ On-site Trench Burial
- ☐ Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)

15.
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) ***Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.***

- ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
- ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
- ☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
- ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

16.
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC)
Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Will any of the proposed closed-loop system operations and associated activities occur on or in areas that *will not* be used for future service and operations?
☐ Yes (If yes, please provide the information below) ☐ No

Required for impacted areas which will not be used for future service and operations:
☐ Soil Backfill and Cover Design Specifications - - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

17.
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC
Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☑ No ☐ NA
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☑ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☑ Yes ☐ No ☐ NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☑ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☑ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☑ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☑ No
Within a 100-year floodplain. - FEMA map	☐ Yes ☑ No

18.
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) ***Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.***
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
☐ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
☐ Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
☐ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

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): Rodney Bailey Title: Env. Advisor

Signature: Rodney Bailey Date: 4-7-10

e-mail address: bailerg@chevron.com Telephone: 432-687-7123

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

OCD Representative Signature: _____ **Approval Date:** _____

Title: _____ **OCD Permit Number:** _____

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

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

☐ **Closure Completion Date:** _____

22.
Closure Method:

☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)

☐ If different from approved plan, please explain.

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

Instructions: Please 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
☐ Re-vegetation Application Rates and Seeding Technique

24.
Closure Report Attachment Checklist: ***Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.***

☐ Proof of Closure Notice (surface owner and division)
☐ Proof of Deed Notice (required for on-site closure)
☐ Plot Plan (for on-site closures and temporary pits)
☐ Confirmation Sampling Analytical Results (if applicable)
☐ Waste Material Sampling Analytical Results (required for on-site closure)
☐ Disposal Facility Name and Permit Number
☐ 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

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): Rodney Bailey Title: Env. Advisor

Signature: Rodney Bailey Date: 4-7-10

e-mail address: _____ Telephone: _____

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Chevron Environmental Management Co.	Contact	Matt Hudson
Address	1400 Smith Street Room 19001A	Telephone No.	(713) 372-1046
Facility Name	New Mexico O State #40	Facility Type	Reserve Pit API # 30-025-38140

Surface Owner State of New Mexico	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	36	17 S	34 E	1885	South	1978	East	Lea

Latitude 32.789444 Longitude -103.511944

NATURE OF RELEASE

Type of Release	C141 submittal requested by L Johnson	Volume of Release Unknown	Volume Recovered Unknown
Source of Release	Reserve Pit	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required		If YES, To Whom?	
By Whom?		Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No		If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*
NA

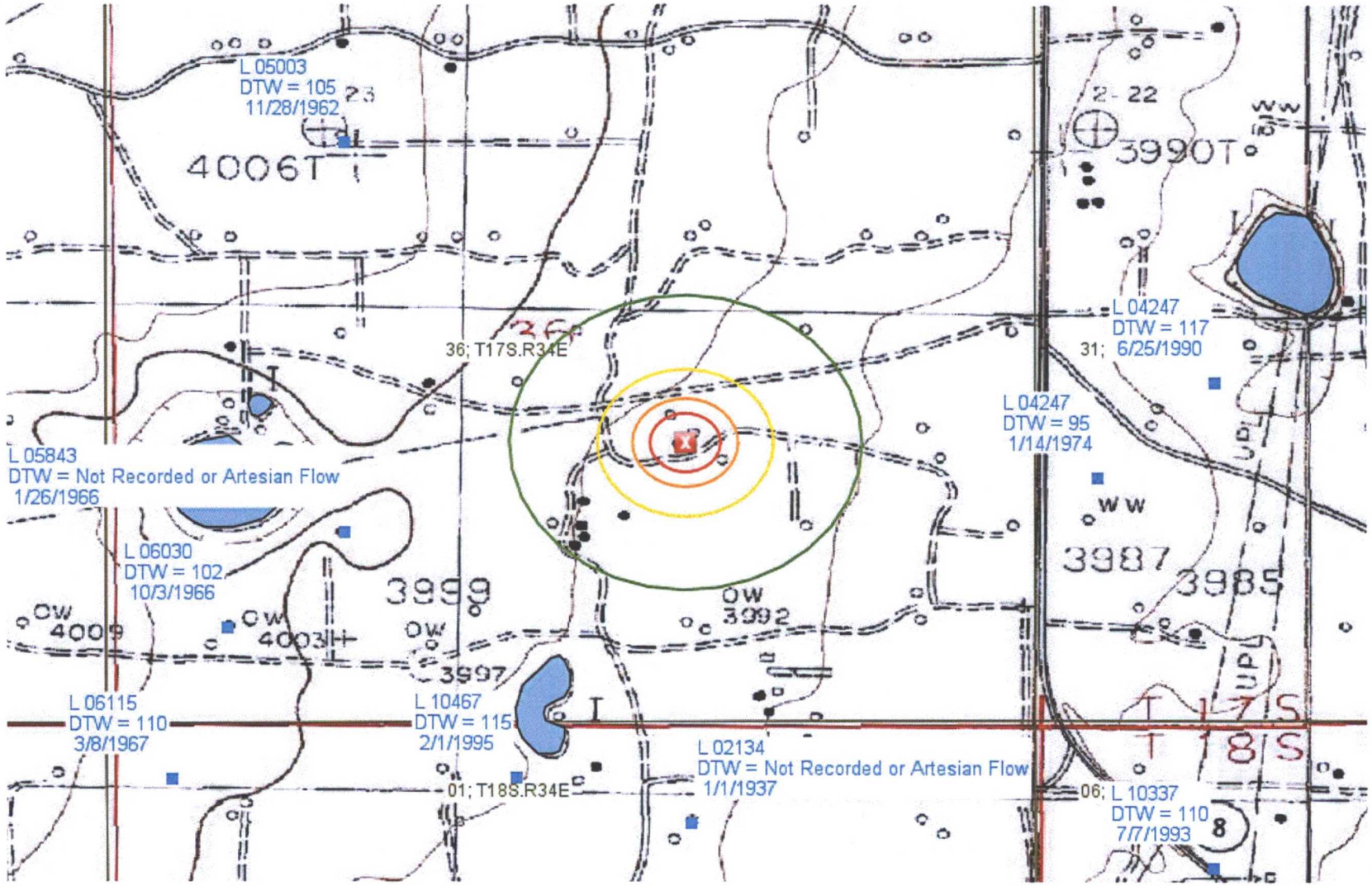
Describe Cause of Problem and Remedial Action Taken.*
Larry Johnson requested that a C141 be prepared for this location following a Site Inspection.

Describe Area Affected and Cleanup Action Taken.*
Per NMOCD directives, a reserve pit area of approximately 155' x 170' x 200' will be over-excavated and sampled. A remediation plan including analytical results and closure plan will be developed and submitted to the District 1 office for review and approval.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Matt Hudson	Approved by District Supervisor:	
Title: Project Manager	Approval Date:	Expiration Date:
E-mail Address: mhudson@chevron.com	Conditions of Approval:	Attached ☐
Date: Phone: 713-372-1046		

* Attach Additional Sheets If Necessary



Petroleum Recovery Research Center	NM O STATE NCT-1 #40	Figure: 1
	Client name/project name	Dec 08, 2010

Analytical Report 462766

for

Conestoga Rovers & Associates

Project Manager: Tom Larson

CEMC NM Ostate #40

073824

16-MAY-13

Collected By: Client

XENCO Laboratories

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Lakeland: Florida (E84098)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

XENCO Laboratories

16-MAY-13

Project Manager: **Tom Larson**
Conestoga Rovers & Associates
2135 S Loop 250 W
Midland, TX 79703

Reference: XENCO Report No(s): **462766**
CEMC NM Ostate #40
Project Address: New Mexico

Tom 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(s) 462766. 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. The uncertainty of measurement associated with the results of analysis reported is available upon request. 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. 462766 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,

Kelsey Brooks
Project Manager

Sample Cross Reference 462766

Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SB-1 5'	S	05-07-13 14:30		462766-001
SB-1 10'	S	05-07-13 14:35		462766-002
SB-1 15'	S	05-07-13 14:40		462766-003
SB-1 20'	S	05-07-13 14:45		462766-004
SB-1 40'	S	05-07-13 14:50		462766-005
SB-1 50'	S	05-07-13 14:55		462766-006
SB-1 70'	S	05-07-13 15:00		462766-007
SB-1 90'	S	05-07-13 15:10		462766-008
SB-2 5'	S	05-08-13 10:20		462766-009
SB-2 10'	S	05-08-13 10:25		462766-010
SB-2 15'	S	05-08-13 10:30		462766-011
SB-2 20'	S	05-08-13 10:35		462766-012
SB-2 40'	S	05-08-13 10:40		462766-013
SB-2 50'	S	05-08-13 10:45		462766-014
SB-2 70'	S	05-08-13 10:50		462766-015
SB-2 90'	S	05-08-13 11:05		462766-016
SB-3 5'	S	05-08-13 12:00		462766-017
SB-3 10'	S	05-08-13 12:05		462766-018
SB-3 15'	S	05-08-13 12:07		462766-019
SB-3 20'	S	05-08-13 12:10		462766-020
SB-3 40'	S	05-08-13 12:13		462766-021
SB-3 50'	S	05-08-13 12:15		462766-022
SB-3 70'	S	05-08-13 12:20		462766-023
SB-3 90'	S	05-08-13 12:25		462766-024

CASE NARRATIVE

Client Name: Conestoga Rovers & Associates
Project Name: CEMC NM Ostate #40

Project ID: *073824*
Work Order Number(s): *462766*

Report Date: *16-MAY-13*
Date Received: *05/09/2013*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:
Batch: LBA-913663 Inorganic Anions by EPA 300/300.1
E300

Batch 913663, Chloride recovered above QC limits in the Matrix Spike.
Samples affected are: 462766-004, -005, -014, -006, -013, -015, -017, -001, -002, -009, -012, -011, -007, -019, -020, -018, -003, -010.
The Laboratory Control Sample for Chloride is within laboratory Control Limits

XENCO Laboratories

Certificate of Analysis Summary 462766

Conestoga Rovers & Associates, Midland, TX

Project Name: CEMC NM Ostate #40

Project Id: 073824
Contact: Tom Larson
Project Location: New Mexico

Date Received in Lab: Thu May-09-13 09:10 am
Report Date: 16-MAY-13
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	462766-001		462766-002		462766-003		462766-004		462766-005		462766-006	
	Field Id:	SB-1 5'		SB-1 10'		SB-1 15'		SB-1 20'		SB-1 40'		SB-1 50'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	May-07-13 14:30		May-07-13 14:35		May-07-13 14:40		May-07-13 14:45		May-07-13 14:50		May-07-13 14:55	
Inorganic Anions by EPA 300/300.1	*Extracted:*	May-10-13 10:00		May-10-13 10:00		May-10-13 10:00		May-10-13 10:00		May-10-13 10:00		May-10-13 10:00	
	Analyzed:	May-10-13 22:10		May-10-13 22:54		May-10-13 23:15		May-10-13 23:37		May-10-13 23:59		May-11-13 00:20	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		2090	42.8	2310	43.4	1330	20.9	1800	42.6	1050	21.2	127	4.17
Percent Moisture	*Extracted:*												
	Analyzed:	May-09-13 15:00		May-09-13 15:00		May-09-13 15:00		May-09-13 15:00		May-09-13 15:00		May-09-13 15:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		6.51	1.00	7.80	1.00	4.27	1.00	6.00	1.00	5.52	1.00	4.06	1.00

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.%

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 462766

Conestoga Rovers & Associates, Midland, TX

Project Name: CEMC NM Ostate #40

Project Id: 073824
Contact: Tom Larson
Project Location: New Mexico

Date Received in Lab: Thu May-09-13 09:10 am
Report Date: 16-MAY-13
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	462766-007		462766-008		462766-009		462766-010		462766-011		462766-012	
	Field Id:	SB-1 70'		SB-1 90'		SB-2 5'		SB-2 10'		SB-2 15'		SB-2 20'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	May-07-13 15:00		May-07-13 15:10		May-08-13 10:20		May-08-13 10:25		May-08-13 10:30		May-08-13 10:35	
Inorganic Anions by EPA 300/300.1	*Extracted:*	May-10-13 10:00				May-10-13 10:00		May-10-13 10:00		May-10-13 10:00		May-10-13 10:00	
	Analyzed:	May-11-13 01:25				May-11-13 02:09		May-11-13 02:30		May-11-13 06:29		May-11-13 03:36	
	Units/RL:	mg/kg	RL			mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		69.8	4.17			136	4.32	83.6	4.38	59.7	4.22	63.2	4.21
Percent Moisture	*Extracted:*												
	Analyzed:	May-09-13 15:00		May-09-13 15:00		May-09-13 15:00		May-09-13 15:00		May-09-13 15:20		May-09-13 15:20	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		4.19	1.00	13.7	1.00	7.46	1.00	8.61	1.00	5.30	1.00	5.03	1.00

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.%

Kelsey Brooks
Project Manager

XENCO Laboratories

Certificate of Analysis Summary 462766

Conestoga Rovers & Associates, Midland, TX

Project Name: CEMC NM Ostate #40

Project Id: 073824
Contact: Tom Larson
Project Location: New Mexico

Date Received in Lab: Thu May-09-13 09:10 am
Report Date: 16-MAY-13
Project Manager: Kelsey Brooks

Analysis Requested	*Lab Id:*	462766-013		462766-014		462766-015		462766-016		462766-017		462766-018	
	Field Id:	SB-2 40'		SB-2 50'		SB-2 70'		SB-2 90'		SB-3 5'		SB-3 10'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	May-08-13 10:40		May-08-13 10:45		May-08-13 10:50		May-08-13 11:05		May-08-13 12:00		May-08-13 12:05	
Inorganic Anions by EPA 300/300.1	*Extracted:*	May-10-13 10:00		May-10-13 10:00		May-10-13 10:00				May-10-13 10:00		May-10-13 10:00	
	Analyzed:	May-11-13 03:57		May-11-13 04:19		May-11-13 04:41				May-11-13 06:07		May-11-13 02:52	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			mg/kg	RL	mg/kg	RL
Chloride		28.9	4.27	102	4.25	108	4.18			713	20.4	612	10.6
Percent Moisture	*Extracted:*												
	Analyzed:	May-09-13 15:20		May-09-13 15:20		May-09-13 15:20		May-09-13 16:00		May-09-13 16:00		May-09-13 16:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		6.27	1.00	5.82	1.00	4.37	1.00	5.04	1.00	2.17	1.00	5.71	1.00

Kelsey Brooks
Project Manager

XENCO Laboratories

Certificate of Analysis Summary 462766

Conestoga Rovers & Associates, Midland, TX

Project Name: CEMC NM Ostate #40

Project Id: 073824
Contact: Tom Larson
Project Location: New Mexico

Date Received in Lab: Thu May-09-13 09:10 am
Report Date: 16-MAY-13
Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	462766-019		462766-020		462766-021		462766-022		462766-023		462766-024	
	Field Id:	SB-3 15'		SB-3 20'		SB-3 40'		SB-3 50'		SB-3 70'		SB-3 90'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	May-08-13 12:07		May-08-13 12:10		May-08-13 12:13		May-08-13 12:15		May-08-13 12:20		May-08-13 12:25	
Inorganic Anions by EPA 300/300.1	*Extracted:*	May-10-13 10:00		May-10-13 10:00		May-10-13 10:00		May-10-13 10:00		May-10-13 10:00			
	Analyzed:	May-11-13 06:51		May-11-13 07:12		May-11-13 09:23		May-11-13 10:06		May-11-13 10:28			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		914	21.3	912	21.0	423	10.6	105	4.22	29.8	4.19		
Percent Moisture	*Extracted:*												
	Analyzed:	May-09-13 16:00		May-09-13 16:00		May-09-13 16:00		May-09-13 16:00		May-09-13 16:00		May-09-13 16:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		6.01	1.00	4.91	1.00	5.68	1.00	5.22	1.00	4.48	1.00	5.38	1.00

Kelsey Brooks
Project Manager

XENCO Laboratories

Certificate of Analytical Results 462766

Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id:	**SB-1 5'**	Matrix: Soil	Date Received: 05.09.13 09.10
Lab Sample Id:	**462766-001**	Date Collected: 05.07.13 14.30	

Analytical Method:	**Inorganic Anions by EPA 300/300.1**			Prep Method:	E300P
Tech:	AMB			% Moisture:	6.51
Analyst:	AMB	Date Prep:	05.10.13 10.00	Basis:	Dry Weight
Seq Number:	913663				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2090**	42.8	mg/kg	05.10.13 22.10		20

Analytical Method:	**Percent Moisture**		
Tech:	SHSM	% Moisture:	
Analyst:	WRU	Basis:	Wet Weight
Seq Number:	913378		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**6.51**	1.00	%	05.09.13 15.00		1

XENCO Laboratories

Certificate of Analytical Results 462766

Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id:	**SB-1 10'**	Matrix: Soil	Date Received: 05.09.13 09.10
Lab Sample Id:	**462766-002**	Date Collected: 05.07.13 14.35	

Analytical Method:	**Inorganic Anions by EPA 300/300.1**			Prep Method:	E300P
Tech:	AMB			% Moisture:	7.8
Analyst:	AMB	Date Prep:	05.10.13 10.00	Basis:	Dry Weight
Seq Number:	913663				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2310**	43.4	mg/kg	05.10.13 22.54		20

Analytical Method:	**Percent Moisture**		
Tech:	SHSM	% Moisture:	
Analyst:	WRU	Basis:	Wet Weight
Seq Number:	913378		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**7.80**	1.00	%	05.09.13 15.00		1

XENCO Laboratories

Certificate of Analytical Results 462766

Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id: SB-1 15' | Matrix: Soil | Date Received: 05.09.13 09.10

Lab Sample Id: **462766-003** | Date Collected: 05.07.13 14.40

Analytical Method: **Inorganic Anions by EPA 300/300.1** | Prep Method: E300P

Tech: AMB | % Moisture: 4.27

Analyst: AMB | Date Prep: 05.10.13 10.00 | Basis: Dry Weight

Seq Number: 913663

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1330**	20.9	mg/kg	05.10.13 23.15		10

Analytical Method: **Percent Moisture**

Tech: SHSM | % Moisture:

Analyst: WRU | Basis: Wet Weight

Seq Number: 913378

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**4.27**	1.00	%	05.09.13 15.00		1

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Certificate of Analytical Results 462766

Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id:	**SB-1 20'**	Matrix: Soil	Date Received: 05.09.13 09.10
Lab Sample Id:	**462766-004**	Date Collected: 05.07.13 14.45	

Analytical Method:	**Inorganic Anions by EPA 300/300.1**			Prep Method:	E300P
Tech:	AMB			% Moisture:	6
Analyst:	AMB	Date Prep:	05.10.13 10.00	Basis:	Dry Weight
Seq Number:	913663				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1800**	42.6	mg/kg	05.10.13 23.37		20

Analytical Method:	**Percent Moisture**		
Tech:	SHSM	% Moisture:	
Analyst:	WRU	Basis:	Wet Weight
Seq Number:	913378		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**6.00**	1.00	%	05.09.13 15.00		1

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Certificate of Analytical Results 462766

Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id: SB-1 40' Matrix: Soil Date Received: 05.09.13 09.10

Lab Sample Id: **462766-005** Date Collected: 05.07.13 14.50

Analytical Method: **Inorganic Anions by EPA 300/300.1** Prep Method: E300P

Tech: AMB % Moisture: 5.52

Analyst: AMB Date Prep: 05.10.13 10.00 Basis: Dry Weight

Seq Number: 913663

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1050**	21.2	mg/kg	05.10.13 23.59		10

Analytical Method: **Percent Moisture**

Tech: SHSM % Moisture:

Analyst: WRU Basis: Wet Weight

Seq Number: 913378

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**5.52**	1.00	%	05.09.13 15.00		1

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Certificate of Analytical Results 462766

Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id:	**SB-1 50'**	Matrix: Soil	Date Received: 05.09.13 09.10
Lab Sample Id:	**462766-006**	Date Collected: 05.07.13 14.55	

Analytical Method:	**Inorganic Anions by EPA 300/300.1**			Prep Method:	E300P
Tech:	AMB			% Moisture:	4.06
Analyst:	AMB	Date Prep:	05.10.13 10.00	Basis:	Dry Weight
Seq Number:	913663				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**127**	4.17	mg/kg	05.11.13 00.20		2

Analytical Method:	**Percent Moisture**		
Tech:	SHSM	% Moisture:	
Analyst:	WRU	Basis:	Wet Weight
Seq Number:	913378		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**4.06**	1.00	%	05.09.13 15.00		1

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Certificate of Analytical Results 462766

Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id: SB-1 70' Matrix: Soil Date Received: 05.09.13 09.10

Lab Sample Id: **462766-007** Date Collected: 05.07.13 15.00

Analytical Method: **Inorganic Anions by EPA 300/300.1** Prep Method: E300P

Tech: AMB % Moisture: 4.19

Analyst: AMB Date Prep: 05.10.13 10.00 Basis: Dry Weight

Seq Number: 913663

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**69.8**	4.17	mg/kg	05.11.13 01.25		2

Analytical Method: **Percent Moisture**

Tech: SHSM % Moisture:

Analyst: WRU Basis: Wet Weight

Seq Number: 913378

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**4.19**	1.00	%	05.09.13 15.00		1

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Certificate of Analytical Results 462766

Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id:	**SB-1 90'**	Matrix: Soil	Date Received: 05.09.13 09.10
Lab Sample Id:	**462766-008**	Date Collected: 05.07.13 15.10	

Analytical Method:	**Percent Moisture**		
Tech:	SHSM	% Moisture:	
Analyst:	WRU	Basis: Wet Weight	
Seq Number:	913378		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**13.7**	1.00	%	05.09.13 15.00		1

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Certificate of Analytical Results 462766

Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id:	**SB-2 5'**	Matrix: Soil	Date Received: 05.09.13 09.10
Lab Sample Id:	**462766-009**	Date Collected: 05.08.13 10.20	

Analytical Method:	**Inorganic Anions by EPA 300/300.1**		Prep Method: E300P
Tech:	AMB		% Moisture: 7.46
Analyst:	AMB	Date Prep: 05.10.13 10.00	Basis: Dry Weight
Seq Number:	913663		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**136**	4.32	mg/kg	05.11.13 02.09		2

Analytical Method:	**Percent Moisture**		
Tech:	SHSM		% Moisture:
Analyst:	WRU		Basis: Wet Weight
Seq Number:	913378		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**7.46**	1.00	%	05.09.13 15.00		1

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Certificate of Analytical Results 462766

Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id:	**SB-2 10'**	Matrix: Soil	Date Received: 05.09.13 09.10
Lab Sample Id:	**462766-010**	Date Collected: 05.08.13 10.25	

Analytical Method:	**Inorganic Anions by EPA 300/300.1**			Prep Method:	E300P
Tech:	AMB			% Moisture:	8.61
Analyst:	AMB	Date Prep:	05.10.13 10.00	Basis:	Dry Weight
Seq Number:	913663				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**83.6**	4.38	mg/kg	05.11.13 02.30		2

Analytical Method:	**Percent Moisture**		
Tech:	SHSM	% Moisture:	
Analyst:	WRU	Basis:	Wet Weight
Seq Number:	913378		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**8.61**	1.00	%	05.09.13 15.00		1

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Certificate of Analytical Results 462766

Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id:	**SB-2 15'**	Matrix: Soil	Date Received: 05.09.13 09.10
Lab Sample Id:	**462766-011**	Date Collected: 05.08.13 10.30	

Analytical Method:	**Inorganic Anions by EPA 300/300.1**			Prep Method:	E300P
Tech:	AMB			% Moisture:	5.3
Analyst:	AMB	Date Prep:	05.10.13 10.00	Basis:	Dry Weight
Seq Number:	913663				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**59.7**	4.22	mg/kg	05.11.13 06.29		2

Analytical Method:	**Percent Moisture**		
Tech:	SHSM	% Moisture:	
Analyst:	WRU	Basis:	Wet Weight
Seq Number:	913378		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**5.30**	1.00	%	05.09.13 15.20		1

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Certificate of Analytical Results 462766

Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id:	**SB-2 20'**	Matrix: Soil	Date Received: 05.09.13 09.10
Lab Sample Id:	**462766-012**	Date Collected: 05.08.13 10.35	

Analytical Method:	**Inorganic Anions by EPA 300/300.1**			Prep Method:	E300P
Tech:	AMB			% Moisture:	5.03
Analyst:	AMB	Date Prep:	05.10.13 10.00	Basis:	Dry Weight
Seq Number:	913663				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**63.2**	4.21	mg/kg	05.11.13 03.36		2

Analytical Method:	**Percent Moisture**		
Tech:	SHSM	% Moisture:	
Analyst:	WRU	Basis:	Wet Weight
Seq Number:	913378		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**5.03**	1.00	%	05.09.13 15.20		1

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Certificate of Analytical Results 462766

Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id: SB-2 40' Matrix: Soil Date Received: 05.09.13 09.10

Lab Sample Id: **462766-013** Date Collected: 05.08.13 10.40

Analytical Method: **Inorganic Anions by EPA 300/300.1** Prep Method: E300P

Tech: AMB % Moisture: 6.27

Analyst: AMB Date Prep: 05.10.13 10.00 Basis: Dry Weight

Seq Number: 913663

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**28.9**	4.27	mg/kg	05.11.13 03.57		2

Analytical Method: **Percent Moisture**

Tech: SHSM % Moisture:

Analyst: WRU Basis: Wet Weight

Seq Number: 913378

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**6.27**	1.00	%	05.09.13 15.20		1

Certificate of Analytical Results 462766

Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id:	**SB-2 50'**	Matrix: Soil	Date Received: 05.09.13 09.10
Lab Sample Id:	**462766-014**	Date Collected: 05.08.13 10.45	

Analytical Method:	**Inorganic Anions by EPA 300/300.1**			Prep Method:	E300P
Tech:	AMB			% Moisture:	5.82
Analyst:	AMB	Date Prep:	05.10.13 10.00	Basis:	Dry Weight
Seq Number:	913663				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**102**	4.25	mg/kg	05.11.13 04.19		2

Analytical Method:	**Percent Moisture**		
Tech:	SHSM	% Moisture:	
Analyst:	WRU	Basis:	Wet Weight
Seq Number:	913378		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**5.82**	1.00	%	05.09.13 15.20		1

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Certificate of Analytical Results 462766

Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id:	**SB-2 70'**	Matrix: Soil	Date Received: 05.09.13 09.10
Lab Sample Id:	**462766-015**	Date Collected: 05.08.13 10.50	

Analytical Method:	**Inorganic Anions by EPA 300/300.1**			Prep Method:	E300P
Tech:	AMB			% Moisture:	4.37
Analyst:	AMB	Date Prep:	05.10.13 10.00	Basis:	Dry Weight
Seq Number:	913663				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**108**	4.18	mg/kg	05.11.13 04.41		2

Analytical Method:	**Percent Moisture**		
Tech:	SHSM	% Moisture:	
Analyst:	WRU	Basis:	Wet Weight
Seq Number:	913378		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**4.37**	1.00	%	05.09.13 15.20		1

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Certificate of Analytical Results 462766

Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id:	**SB-2 90'**	Matrix: Soil	Date Received: 05.09.13 09.10
Lab Sample Id:	**462766-016**	Date Collected: 05.08.13 11.05	

Analytical Method:	**Percent Moisture**		
Tech:	SHSM	% Moisture:	
Analyst:	WRU	Basis: Wet Weight	
Seq Number:	913386		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**5.04**	1.00	%	05.09.13 16.00		1

XENCO Laboratories

Certificate of Analytical Results 462766

Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id:	**SB-3 5'**	Matrix: Soil	Date Received: 05.09.13 09.10
Lab Sample Id:	**462766-017**	Date Collected: 05.08.13 12.00	

Analytical Method:	**Inorganic Anions by EPA 300/300.1**			Prep Method:	E300P
Tech:	AMB			% Moisture:	2.17
Analyst:	AMB	Date Prep:	05.10.13 10.00	Basis:	Dry Weight
Seq Number:	913663				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**713**	20.4	mg/kg	05.11.13 06.07		10

Analytical Method:	**Percent Moisture**		
Tech:	SHSM	% Moisture:	
Analyst:	WRU	Basis:	Wet Weight
Seq Number:	913386		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**2.17**	1.00	%	05.09.13 16.00		1

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Certificate of Analytical Results 462766

Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id:	**SB-3 10'**	Matrix: Soil	Date Received: 05.09.13 09.10
Lab Sample Id:	**462766-018**	Date Collected: 05.08.13 12.05	

Analytical Method:	**Inorganic Anions by EPA 300/300.1**			Prep Method:	E300P
Tech:	AMB			% Moisture:	5.71
Analyst:	AMB	Date Prep:	05.10.13 10.00	Basis:	Dry Weight
Seq Number:	913663				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**612**	10.6	mg/kg	05.11.13 02.52		5

Analytical Method:	**Percent Moisture**		
Tech:	SHSM	% Moisture:	
Analyst:	WRU	Basis:	Wet Weight
Seq Number:	913386		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**5.71**	1.00	%	05.09.13 16.00		1

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Certificate of Analytical Results 462766

Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id:	**SB-3 15'**	Matrix: Soil	Date Received: 05.09.13 09.10
Lab Sample Id:	**462766-019**	Date Collected: 05.08.13 12.07	

Analytical Method:	**Inorganic Anions by EPA 300/300.1**			Prep Method:	E300P
Tech:	AMB			% Moisture:	6.01
Analyst:	AMB	Date Prep:	05.10.13 10.00	Basis:	Dry Weight
Seq Number:	913663				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**914**	21.3	mg/kg	05.11.13 06.51		10

Analytical Method:	**Percent Moisture**		
Tech:	SHSM	% Moisture:	
Analyst:	WRU	Basis:	Wet Weight
Seq Number:	913386		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**6.01**	1.00	%	05.09.13 16.00		1

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Certificate of Analytical Results 462766

Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id:	**SB-3 20'**	Matrix: Soil	Date Received: 05.09.13 09.10
Lab Sample Id:	**462766-020**	Date Collected: 05.08.13 12.10	

Analytical Method:	**Inorganic Anions by EPA 300/300.1**			Prep Method:	E300P
Tech:	AMB			% Moisture:	4.91
Analyst:	AMB	Date Prep:	05.10.13 10.00	Basis:	Dry Weight
Seq Number:	913663				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**912**	21.0	mg/kg	05.11.13 07.12		10

Analytical Method:	**Percent Moisture**		
Tech:	SHSM	% Moisture:	
Analyst:	WRU	Basis:	Wet Weight
Seq Number:	913386		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**4.91**	1.00	%	05.09.13 16.00		1

XENCO Laboratories

Certificate of Analytical Results 462766

Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id:	**SB-3 40'**	Matrix: Soil	Date Received: 05.09.13 09.10
Lab Sample Id:	**462766-021**	Date Collected: 05.08.13 12.13	

Analytical Method:	**Inorganic Anions by EPA 300/300.1**			Prep Method:	E300P
Tech:	AMB			% Moisture:	5.68
Analyst:	AMB	Date Prep:	05.10.13 10.00	Basis:	Dry Weight
Seq Number:	913664				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**423**	10.6	mg/kg	05.11.13 09.23		5

Analytical Method:	**Percent Moisture**		
Tech:	SHSM	% Moisture:	
Analyst:	WRU	Basis:	Wet Weight
Seq Number:	913386		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**5.68**	1.00	%	05.09.13 16.00		1

Certificate of Analytical Results 462766

Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id:	**SB-3 50'**	Matrix: Soil		Date Received:	05.09.13 09.10
Lab Sample Id:	**462766-022**	Date Collected:	05.08.13 12.15		
Analytical Method:	**Inorganic Anions by EPA 300/300.1**			Prep Method:	E300P
Tech:	AMB			% Moisture:	5.22
Analyst:	AMB	Date Prep:	05.10.13 10.00	Basis:	Dry Weight
Seq Number:	913664				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**105**	4.22	mg/kg	05.11.13 10.06		2

Analytical Method:	**Percent Moisture**		
Tech:	SHSM	% Moisture:	
Analyst:	WRU	Basis:	Wet Weight
Seq Number:	913386		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**5.22**	1.00	%	05.09.13 16.00		1

XENCO Laboratories

Certificate of Analytical Results 462766

Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id:	**SB-3 70'**	Matrix: Soil	Date Received: 05.09.13 09.10
Lab Sample Id:	**462766-023**	Date Collected: 05.08.13 12.20	

Analytical Method:	**Inorganic Anions by EPA 300/300.1**			Prep Method:	E300P
Tech:	AMB			% Moisture:	4.48
Analyst:	AMB	Date Prep:	05.10.13 10.00	Basis:	Dry Weight
Seq Number:	913664				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**29.8**	4.19	mg/kg	05.11.13 10.28		2

Analytical Method:	**Percent Moisture**				
Tech:	SHSM			% Moisture:	
Analyst:	WRU			Basis:	Wet Weight
Seq Number:	913386				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**4.48**	1.00	%	05.09.13 16.00		1

Certificate of Analytical Results 462766

Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id:	**SB-3 90'**	Matrix: Soil	Date Received: 05.09.13 09.10
Lab Sample Id:	**462766-024**	Date Collected: 05.08.13 12.25	

Analytical Method:	**Percent Moisture**		
Tech:	SHSM	% Moisture:	
Analyst:	WRU	Basis: Wet Weight	
Seq Number:	913386		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	**5.38**	1.00	%	05.09.13 16.00		1

Final 1.000

XENCO Laboratories

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 affect the recovery of the spike concentration. This condition could also affect 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 quantiation limit and above the detection limit.

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.

* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

\+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Conestoga Rovers & Associates

CEMC NM Ostate #40

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 913663 — Matrix: Solid — Date Prep: 05/10/2013
MB Sample Id: 638042-1-BLK — LCS Sample Id: 638042-1-BKS — LCSD Sample Id: 638042-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<2.00	50.0	51.7	103	51.6	103	80-120	0	20	mg/kg	05/10/13 21:27	

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 913664 — Matrix: Solid — Date Prep: 05/10/2013
MB Sample Id: 638044-1-BLK — LCS Sample Id: 638044-1-BKS — LCSD Sample Id: 638044-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<2.00	50.0	50.3	101	52.3	105	80-120	4	20	mg/kg	05/11/13 08:39	

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 913663 — Matrix: Soil — Date Prep: 05/10/2013
Parent Sample Id: 462766-001 — MS Sample Id: 462766-001 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Chloride	2090	1070	3410	123	80-120	mg/kg	05/10/13 22:32	X

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 913663 — Matrix: Soil — Date Prep: 05/10/2013
Parent Sample Id: 462766-018 — MS Sample Id: 462766-018 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Chloride	612	265	848	89	80-120	mg/kg	05/11/13 03:14	

Analytical Method: Inorganic Anions by EPA 300/300.1 — Prep Method: E300P
Seq Number: 913664 — Matrix: Soil — Date Prep: 05/10/2013
Parent Sample Id: 462766-021 — MS Sample Id: 462766-021 S

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Chloride	423	265	724	114	80-120	mg/kg	05/11/13 09:44	

Conestoga Rovers & Associates

CEMC NM Ostate #40

Analytical Method: Percent Moisture
Seq Number: 913378 Matrix: Solid
MB Sample Id: 913378-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Percent Moisture	ND	%	05/09/13 14:00	

Analytical Method: Percent Moisture
Seq Number: 913386 Matrix: Solid
MB Sample Id: 913386-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Percent Moisture	ND	%	05/09/13 16:00	

Analytical Method: Percent Moisture
Seq Number: 913378 Matrix: Soil
Parent Sample Id: 462621-005 MD Sample Id: 462621-005 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	11.1	10.6	5	20	%	05/09/13 14:00	

Analytical Method: Percent Moisture
Seq Number: 913386 Matrix: Soil
Parent Sample Id: 462766-016 MD Sample Id: 462766-016 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	5.04	4.87	3	20	%	05/09/13 16:00	

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

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☒ 12600 West I-20 East, Odessa, TX 79765 **432-563-1800**

Serial #: 330716 Page 1 of 3

Company-City: CRA MIDLAND **Phone:** 432-686-0086

Lab Only: 462766

Project Name-Location: CEMC NM OSTATE #40 ☐ Previously done at XENCO **Project ID:** 073824

TAT: ASAP 5h 12h 24h 48h 3d (5d) 7d 10d 21d Standard TAT is project specific.
It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

Proj. State: TX, AL, FL, GA, ~~LA, MS~~, NC, NJ, PA, SC, TN, UT Other (NM)

Proj. Manager (PM): TOM LARSON

E-mail Results to ☒ PM and tlarson@craworld.com **Fax No:**

Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O.

Bill to: SEE SSOW (C. KNIGHT CRA)

Quote/Pricing: **P.O. No:** ☐ Call for P.O.

Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW **TRRP** QAPP Per-Contract CLP AGCEE NAVY DOE DOD USACE OTHER: NMOCD

Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)

Sampler Name JAKE FERENZ **Signature** Jake F.

	Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOA: Full-List BTEX-MTBE EtOH Oxyg VOHs VOAs	VOA: PP TCL DW Appdx-1 Appdx-2 CALL Other:	PAHs SIM 8310 8270	TX-1005 DRO GRO MA EPH MA VPH	SVOCs: Full-List DW BN&AE TCLP PP Appdx-2 CALL	OC Pesticides PCBs Herbicides OP Pesticides	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx2	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	EDB / DBCP	Cl - Chlorides 300.0EPA	TAT ASAP 5h 12h 24h 48h 3d (5d) 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Sample Clean-ups are pre-approved as needed	
1	SB-1 5'	5.7.13	2:30pm		S		X	1	4oz	C	C										X	X				1
2	↓ 10'	↓	2:35		S		X	1	↓	↓	↓										X	X				2
3	15'		2:40		S		X	1													X	X				3
4	20'		2:45		S		X	1													X	X				4
5	40'		2:50		S		X	1													X	X				5
6	50'		2:55		S		X	1													X	X				6
7	70'		3:00		S		X	1													X	X				7
8	90'	5.7.13	3:10		S		X	1													X			X		8
9	SB-2 5'	5.8.13	10:20 AM		S		X	1													X	X				9
10	10'	5.8.13	10:25		S		X	1													X	X				10

Remarks

Addn: Date Rcv. by: From:

	Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1	1) JF - Jake F.	5.9.13 9:11am	2)	
2	3)		4)	
3	5)		6) [signature]	5/9/13 9:10

Total Containers per COC: Cooler Temp: 5.0 °C

Otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges and Collection Fees are pre-approved if needed.

Preservatives: Various (**V**), HCl pH<2 (**H**), H2SO4 pH<2 (**S**), HNO3 pH<2 (**N**), Asbc Acid&NaOH (**A**), ZnAc&NaOH (**Z**), (Cool, <4C) (**C**), None (**NA**), See Label (**L**), Other (**O**)
Cont. Size: 4oz (**4**), 8oz (**8**), 32oz (**32**), 40ml VOA (**40**), 1L (**1**), 500ml (**5**), Tedlar Bag (**B**), Various (**V**), Other **Cont. Type:** Glass Amb (**A**), Glass Clear (**C**), Plastic (**P**), Various (**V**)
Matrix: Air (**A**), Product (**P**), Solid (**S**), Water (**W**), Liquid (**L**)

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Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

XENCO Laboratories

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☐ 5332, Blackberry Drive, San Antonio, TX 78238 **210-509-3334**
☐ 9701 Harry Hines Blvd., Dallas, TX 75220 **214-902-0300**
☒ 12600 West I-20 East, Odessa, TX 79765 **432-563-1800**

Serial #: 330717 Page 2 of 3

Company-City	CRA MIDLAND
Phone	432-686-0086
Project Name-Location	LEMC NM OSTATE #1D
☐ Previously done at XENCO	
Project ID	073824
Proj. State: TX, AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, UT Other	NM
Proj. Manager (PM)	
E-mail Results to ~~☒PM~~ and	tlmson@crawerld.com
Fax No:	
Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O.	
Bill to:	SEE SSAW (C. knight - CRA)
Quote/Pricing:	
P.O. No:	
☐ Call for P.O.	
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW **TRRP**	
QAPP Per-Contract CLP AGCEE NAVY DOE DOD USACE OTHER:	NMOCD
Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)	
Sampler Name	JAKE FORBIS **Signature**

Lab Only: 462766

TAT: ASAP 5h 12h 24h 48h 3d (5d) 7d 10d 21d Standard TAT is project specific.
It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

	Sample ID	Sampling Date	Time	Depth ft' in" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives
1	SB-2	15'	5.8.13	10:30 AM		S		X	1	4oz	C	C
2		20'		10:35								
3		40'		10:40								
4		50'		10:45								
5		70'		10:50								
6	↓	90'		11:05								
7	SB-3	5'		12 noon								
8		10'		12:05 pm								
9		15'		12:07								
10	↓	20'	5.8.13	12:10								

	VOA: Full-List BTEX-MTBE EtOH Oxyg VOHs VOAs	VOA: PP TCL DW Appdx-1 Appdx-2 CALL Other:	PAHs SIM 8310 8270	TX-1005 DRO GRO MA EPH MA VPH	SVOCs: Full-List DW BN&AE TCLP PP Appdx-2 CALL	OC Pesticides PCBs Herbicides OP Pesticides	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx2	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	EDB / DBCP	Cl - chlorides 300, 0EPA	TATASAP 5h 12h 24h 48h 3d (5d) 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Sample Clean-ups are pre-approved as needed	Addn: Date Rcv. by: From:
1										X	X				1
2										X	X				2
3										X	X				3
4										X	X				4
5										X	X				5
6										X	X	X			6
7										X	X				7
8										X	X				8
9										X	X				9
10										X	X				10

Remarks

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1) JF	5.9.13 9:11 AM	2)	
3)		4)	
5)		6)	5/9/13 9:10

Total Containers per COC: Cooler Temp: 5.0 °C

Otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges and Collection Fees are pre-approved if needed.

Preservatives: Various (**V**), HCl pH<2 (**H**), H2SO4 pH<2 (**S**), HNO3 pH<2 (**N**), Asbc Acid&NaOH (**A**), ZnAc&NaOH (**Z**), (Cool, <4C) (**C**), None (**NA**),See Label (**L**), Other (**O**) _____
Cont. Size: 4oz (**4**), 8oz (**8**), 32oz (**32**), 40ml VOA (**40**), 1L (**1**), 500ml (**5**), Tedlar Bag (**B**), Various (**V**), Other _____ **Cont. Type:** Glass Amb (**A**), Glass Clear (**C**), Plastic (**P**), Various (**V**)

Matrix: Air (**A**), Product (**P**), Solid (**S**), Water (**W**), Liquid (**L**)

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Final 1.000

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☒ 12600 West I-20 East, Odessa, TX 79765 **432-563-1800**

Serial #: 330718 Page 3 of 3

Company-City: CRA MIDLAND **Phone:** 432-686-7886

Lab Only: 462766

Project Name-Location: ☐ Previously done at XENCO — CONC NM OSTATE #40 **Project ID:** 073824

TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific.
It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

Proj. State: TX, AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, UT Other NM **Proj. Manager (PM)**

E-mail Results to ☒ PM and tlarson@craworld.com **Fax No:**

Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O.
Bill to: SEE SOW (C. Knight CRA)

Quote/Pricing: **P.O. No:** ☐ Call for P.O.

Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRRP

QAPP Per-Contract CLP AGCEE NAVY DOE DOD USACE OTHER: NMOCD

Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)

Sampler Name JEFFERSON **Signature**

	Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives
1	SB-3 40'	5.8.13	12:13		S		X	1	4oz	C	C
2	50'	5.8.13	12:15		S		X	1	4oz	C	C
3	70'	5.8.13	12:20		S		X	1	4oz	C	C
4	90'	5.8.13	12:25		S		X	1	4oz	C	C
5											
6											
7											
8											
9											
10											

	VOA: Full-List BTEX-MTBE EtOH Oxyg VOHs VOAs	VOA: PP TCL DW Appdx-1 Appdx-2 CALL Other:	PAHs SIM 8310 8270	TX-1005 DRO GRO MA EPH MA VPH	SVOCs: Full-List DW BN&AE TCLP PP Appdx-2 CALL	OC Pesticides PCBs Herbicides OP Pesticides	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx2	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	EDB / DBCP	Cl - chlorides, 300.0
1										X
2										X
3										X
4										X
5										
6										
7										
8										
9										
10										

	TAT ASAP 5h	12h	24h	48h	3d	5d	7d	10d	21d
1							X		
2							X		
3							X		
4									
5									
6									
7									
8									
9									
10									

	Addn: PAH above	mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)
1			
2			
3			
4			X
5			
6			
7			
8			
9			
10			

Remarks

Sample Clean-ups are pre-approved as needed

Addn: Date Rcv. by: From:

	Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1	1)	5.9.13 9:00	2)	
2	3)		4)	
3	5)		6)	5/9/13 9:10

Total Containers per COC: Cooler Temp: 5.0 °C

Otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges and Collection Fees are pre-approved if needed.

Preservatives: Various (**V**), HCl pH<2 (**H**), H2SO4 pH<2 (**S**), HNO3 pH<2 (**N**), Asbc Acid&NaOH (**A**), ZnAc&NaOH (**Z**), (Cool, <4C) (**C**), None (**NA**),See Label (**L**), Other (**O**) _____
Cont. Size: 4oz (**4**), 8oz (**8**), 32oz (**32**), 40ml VOA (**40**), 1L (**1**), 500ml (**5**), Tedlar Bag (**B**), Various (**V**), Other _____ **Cont. Type:** Glass Amb (**A**), Glass Clear (**C**), Plastic (**P**), Various (**V**)

Matrix: Air (**A**), Product (**P**), Solid (**S**), Water (**W**), Liquid (**L**)

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Conestoga Rovers & Associates

Date/ Time Received: 05/09/2013 09:10:00 AM

Work Order #: 462766

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	5
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	Yes
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	Yes
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	Yes

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:

Checklist completed by: Kelsey Brooks Date: 05/09/2013

Checklist reviewed by: Kelsey Brooks Date: 05/09/2013

PHOTO 1: View of reserve pit facing north before any remedial work activities

PHOTO 2: View of reserve pit facing south before any remedial work activities

PHOTOGRAPH LOG
New Mexico O State #40
Lea County, New Mexico
Chevron Environmental Management Company

PHOTO 3: View of excavation/waste removal activities

PHOTO 4: View of excavation/waste removal activities facing southwest

PHOTO 5: View of excavated reserve pit facing south

PHOTO 6: View of excavated pit and entrance ramp facing north

PHOTOGRAPH LOG
New Mexico O State #40
Lea County, New Mexico
Chevron Environmental Management Company

PHOTO 7: View of drill rig inside excavated reserve pit facing north

PHOTO 8: View of backfill activities facing north

PHOTO 9: View of backfill activities facing west

PHOTO 10: View of backfilling activities facing south

PHOTO 9: View of backfill ready for 20 mil poly liner installation facing northwest

PHOTO 11: View of 20 mil poly liner installation facing southeast

PHOTO 12: View of 20 mil poly liner installation/backfill facing northwest

PHOTO 13: View of final grading and seeding activities facing north