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.

11434

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: Four Star Oil and Gas Company OGRID #: 131944
Address: Post Office Box 36366, Houston, TX 77236
Facility or well name: LM Barton #1C
API Number: 30-045-30567 OCD Permit Number:
U/L or Qtr/Qtr Qtr/Qtr N Section 12 Township 30N Range 12 W County: San Juan
Center of Proposed Design: Latitude 36.821358° Longitude -108.052079° 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

OIL CONS. DIV DIST. 3
OCT 02 2013

Temporary: ☐ Drilling ☐ Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A
☐ Lined ☐ Unlined Liner type: Thickness _____mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other _____
☐ String-Reinforced
Liner Seams: ☐ Welded ☐ Factory ☐ Other _____ Volume: _____bbl Dimensions: L_____ x W_____ x D_____

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

4.
☒ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC
Volume: 95 bbl Type of fluid: Produced Water
Tank Construction material: Steel
☐ 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 None

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.

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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): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____

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

OCD Representative Signature: Jonathan D. Kelly Approval Date: 10/15/2013

Title: Compliance Officer 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: August 2, 2013

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) See Attached
☐ Proof of Deed Notice (required for on-site closure) Not Required
☐ Plot Plan (for on-site closures and temporary pits) Not Required
☒ Confirmation Sampling Analytical Results (if applicable) See Attached
☐ Waste Material Sampling Analytical Results (required for on-site closure) Not Required
☐ Disposal Facility Name and Permit Number Envirotech's Landfarm #2, Permit #: NM-01-001
☒ Soil Backfilling and Cover Installation See Attached
☒ Re-vegetation Application Rates and Seeding Technique Pursuant to the BLM MOU and Approved Closure Plan
☒ Site Reclamation (Photo Documentation) See Attached
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): Mr. Adam Oliver Title: Facilities Engineer

Signature: Adam Oliver Date: 9/9/2013

e-mail address: adamoliver@chevron.com Telephone: (505) 333- 1942

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
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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 August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company *Four Star Oil and Gas Company*	Contact *Richard Carroll*
Address *Post Office Box 36366 Houston, Texas 77236*	Telephone No. *970-257-6026*
Facility Name *LM Barton #1C*	Facility Type *Gas Well*

Surface Owner *Private*	Mineral Owner	API No. *3004530567*

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	*12*	*30N*	*12W*	*660*	*South*	*1935*	*West*	*San Juan*

Latitude *36.821354* Longitude *-108.052051*

NATURE OF RELEASE

Type of Release *Produced Water*	Volume of Release *Unknown*	Volume Recovered *None*
Source of Release *Below Grade Tank*	Date and Hour of Occurrence *Unknown*	Date and Hour of Discovery *July 10, 2013 7:46am*
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom? *Brandon Powell*	
By Whom? *Richard Carroll*	Date and Hour *July 25, 2013 10:10am*	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*
No watercourse was impacted.

Describe Cause of Problem and Remedial Action Taken.*
Produced water from a gas well at the above mentioned location formerly discharged into a Below Grade Tank (BGT) on location. The Below Grade Tank was removed on July 8, 2013. Soil sampling from directly beneath the tank in accordance with Subsection E of 19.15.17.13 NMAC was performed on July 8, 2013, indicated that a release had occurred due to chloride concentrations being above 250 mg/kg.

Describe Area Affected and Cleanup Action Taken.*
A five (5) point composite sample was collected from directly beneath the former BGT immediately once it was removed. The sample was analyzed in the field for total petroleum hydrocarbons (TPH) using USEPA Method 418.1, and in Envirotech's Analytical Laboratory for benzene and total BTEX using USEPA Method 8021 and for total chlorides using USEPA Method 4500B. The sample returned results at or below the "Pit Rule" standards of 100 mg/kg TPH, 0.2 mg/kg benzene, and 50 mg/kg total BTEX; however the total chloride concentration was 1,740 mg/kg, confirming that a release had occurred Analytical results are attached for your reference. The BGT pit has been excavated and the soil disposed of at Envirotech's NMOCD Permitted Soil Remediation Facility, Landform #2. A final C-141 report and documentation will be submitted with the BGT Closure Documentation at a later date.

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: Richard Carroll	OIL CONSERVATION DIVISION	
Printed Name: *Richard Carroll*	Approved by Environmental Specialist:	
Title: *Waste and Water Specialist*	Approval Date:	Expiration Date:
E-mail Address: *RCVB@Chevron.com*	Conditions of Approval:	Attached ☐
Date: *9/9/13* Phone: *970-257-6026*		

* Attach Additional Sheets If Necessary

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

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 August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company *Four Star Oil and Gas Company*	Contact *Richard Carroll*
Address *Post Office Box 36366 Houston, Texas 77236*	Telephone No. *970-257-6026*
Facility Name *LM Barton #1C*	Facility Type *Gas Well*

Surface Owner *Private*	Mineral Owner	API No. *3004530567*

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	*12*	*30N*	*12W*	*660*	*South*	*1935*	*West*	*San Juan*

Latitude *36.821354* Longitude *-108.052051*

NATURE OF RELEASE

Type of Release *Produced Water*	Volume of Release *Unknown*	Volume Recovered *None*
Source of Release *Below Grade Tank*	Date and Hour of Occurrence *Unknown*	Date and Hour of Discovery *July 10, 2013 7:46am*
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom? *Brandon Powell*	
By Whom? *Richard Carroll*	Date and Hour *July 25, 2013 10:10am*	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*
No watercourse was impacted.

Describe Cause of Problem and Remedial Action Taken.*
Produced water from a gas well at the above mentioned location formerly discharged into a Below Grade Tank (BGT) on location. The Below Grade Tank was removed on July 8, 2013. Soil sampling from directly beneath the tank in accordance with Subsection E of 19.15.17.13 NMAC was performed on July 8, 2013, indicated that a release had occurred due to chloride concentrations being above 250 mg/kg. Remedial action was to excavate the contaminated area and re-sample for closure.

Describe Area Affected and Cleanup Action Taken.*
Approximately 124 cubic yards of contaminated soil were removed from the release area and transported to Envirotech's NMOCD Permitted Soil Remediation Facility, Landfarm #2; see attached Bill of Ladings. Soil samples were collected from the excavated area for final closure and analyzed for chlorides using USEPA Method 300.1; see BGT closure documentation for final closure results.

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

OIL CONSERVATION DIVISION

Signature: Richard Carroll

Printed Name: *Richard Carroll*

Approved by Environmental Specialist:

Title: *Waste and Water Specialist*

Approval Date: Expiration Date:

E-mail Address: *RCVB@Chevron.com*

Conditions of Approval: Attached ☐

Date: *9/9/13* Phone: *970-257-6026*

° Attach Additional Sheets If Necessary

BELOW GRADE TANK (BGT) CLOSURE PLAN

SITE NAME:

LM BARTON #1C WELL SITE
UNIT LETTER N, SECTION 12, TOWNSHIP 30 NORTH, RANGE 12 WEST
SAN JUAN COUNTY, NEW MEXICO
LATITUDE: N36.821358° LONGITUDE: W108.052079°

SUBMITTED TO:

MR. BRANDON POWELL
NEW MEXICO OIL CONSERVATION DIVISION
1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178 EXT 15

SUBMITTED BY:

MR. RICHARD CARROLL
CHEVRON NORTH AMERICA
760 HORIZON DRIVE
GRAND JUNCTION, COLORADO 81506
(970) 257-6026

INITIALLY SUBMITTED WITH BGT PERMIT
MARCH 2010

BGT CLOSURE PLAN APPROVAL
APRIL 2013

BELOW GRADE TANK (BGT) CLOSURE PLAN
CHEVRON NORTH AMERICA
LM BARTON #1C WELL SITE
SAN JUAN COUNTY, NEW MEXICO

TABLE OF CONTENTS

INTRODUCTION

Chevron North America would like to submit a closure plan for the below grade tank (BGT) at the LM Barton #1C well site located in the SE ¼ SW ¼ of Section 12, Township 30 North, Range 12 West, San Juan County, New Mexico. This closure plan has been prepared in conformance with New Mexico Oil Conservation Division (NMOCD) procedures.

SCOPE OF CLOSURE ACTIVITIES

The purpose of this closure plan is to provide the details of activities involved in the closure of the BGT at the LM Barton #1C well site. The following scope of closure activities has been designed to meet this objective:

1) Chevron North America shall submit a closure plan to the division's environmental bureau. Upon receipt of this plan the division shall review the current closure plan for adequacy and accordance with 19.15.17.9 Subsection C NMAC and 19.15.17.13 NMAC.
   a. **Closure Plan was submitted on March 1, 2010, to the division's environmental bureau, in accordance with 19.15.17.9 Subsection C NMAC and 19.15.17.13 NMAC. The closure plan was approved on April 23, 2013, by the NMOCD.**

2) No less than 72 hours and no greater than one (1) week prior to BGT removal, Chevron North America will provide written notification to the appropriate division district office, as in accordance with 19.15.17.13 Subsection J Paragraph (2) NMAC.
   a. **Please find attached the written notification to the district office sent on July 15, 2013. A submission of notification prior to closure was due to the tank being permitted as a below grade tank (BGT); however, the tank was actually a small above ground tank (AGT).**

3) Chevron North America shall provide written notification to the surface owner no later than 24 hours prior to BGT removal. BLM will receive notification per a Sundry Notice, as in accordance with 19.15.17.13 Subsection J Paragraph (1) NMAC.
   a. **A Sundry Notice was sent via certified mail to the BLM Farmington field office on July 15, 2013. A submission of notification prior to closure was due to the tank being permitted as a below grade tank (BGT); however, the tank was actually a small above ground tank (AGT).**

4) Chevron North America, or a contractor acting on behalf of Chevron, will remove all liquids, and/or sludge, if applicable, prior to closure. Material will be disposed of at Envirotech's Landfarm, Permit # NM-01-0011, as in accordance with 19.15.17.13 Subsection E Paragraph (1) NMAC.
   a. **All waste material was removed from the BGT by M&R Trucking and transported to Envirotech's NMOCD permitted Landfarm #2 as listed above; see attached Bill of Lading.**

5) Chevron North America, or a contractor acting on behalf of Chevron, will remove the BGT and all on-site equipment associated with the BGT that cannot or will not be reused on-site, as in accordance with 19.15.17.13 Subsection E Paragraphs (2) and (3) NMAC.
   a. **Chevron has removed the BGT and associated equipment that will not be reused onsite; see attached Site Photography.**

6) Once the BGT is removed, a five (5)-point composite sample will be collected from directly below the tank or below the leak detection system if present. An additional discrete sample will be collected from any area that is wet, discolored, or showing other evidence of a release. All samples being collected will be analyzed for benzene and total BTEX using USEPA Method 8021, TPH using USEPA Method 418.1, and chlorides using USEPA Method 300.1, as in accordance with 19.15.17.13 Subsection E Paragraph (4) NMAC.

Sample ID	Date	TPH (418.1)	Benzene	BTEX	Total Chlorides
1	7/10/2013	332 ppm	<0.05 ppm	<0.05 ppm	1740 ppm

*Sample ID 1 = 5pt Composite

7) Depending on soil sample results, the area will be either backfilled or the area will be excavated.
   a. If soil samples pass the regulatory standards of 0.2 ppm benzene, 50 ppm BTEX, 100 ppm TPH, and 250 ppm or background concentration of chlorides, as in accordance with 19.15.17.13 Subsection E Paragraph (4) NMAC.
      i. Chevron North America, or a contractor acting on behalf of Chevron, will backfill the excavation or impacted area with non-waste containing, earthen material, in accordance with 19.15.17.13 Subsection E Paragraph (6) NMAC.
         1. **The soil sample exceeded the regulatory standard of 250 ppm for chlorides and 100 ppm for TPH using USEPA Method 418.1, indicating a release had occurred.**

      ii. Upon decommissioning of the well site Chevron North America, or a contractor acting on behalf of Chevron, will construct a divison-prescribed soil cover, substantially restore, recontour and re-vegetate the site, in accordance with 19.15.17.13 Subsections G, H, and I NMAC.
         1. **Well site is still in use – re-vegetation will occur upon the decommissioning of the well site.**

   b. If soil samples exceed the regulatory standards stated above.
      i. Chevron North America will submit a Release Notification by Form C-141 to the appropriate division district office, in accordance with 19.15.17.13 Subsection E Paragraph (4) NMAC.
         1. **C-141 release notification form is attached.**

ii. Activities beyond this point will be in accordance with 19.15.3.116 NMAC and 19.15.11.19 NMAC.
   1. **The release area was excavated and approximately 124 cubic yards of contaminated soil. All contaminated soil was transported to Envirotech's NMOCD Permitted Soil Remediation Facility, Landfarm #2. Final soil samples were collected from the excavated area; please see table below for results:**

Sample ID	Date	TPH (8015)	Benzene	BTEX	Total Chlorides
1	7/10/2013	36.8 ppm	Not Sampled	Not Sampled	1740 ppm
Wall Composite	7/30/2013	Not Sampled	Not Sampled	Note Sampled	272 ppm
Bottom at 5 Feet	7/31/2013	Not Sampled	Not Sampled	Not Sampled	162 ppm

REPORTING

Reporting will occur within 60 days following the BGT closure and will consist of a form C-144 with all supporting data, and a form C-141 with all supporting data, if necessary. The supporting data will include analytical results, a site diagram, and other information related to the onsite activities.

We appreciate the opportunity to be of service. If you have any questions or require further information, please do not hesitate to contact our office at (505) 632-0615.

Respectfully Submitted:
Chevron North America

Richard Carroll
Waste and Water Specialist
Chevron North America
Mid-continent Business Unit

April E. Pohl
Regulatory Specialist

Chevron North America
Exploration and Production Company
(A Chevron U.S.A. Inc. Division)
332 Road 3100
Aztec, New Mexico 87410
Tel: 505-333-1941
Cell: 505-386-8074
Fax: 505-334-7134

Via Certified Mail

July 24, 2013

Donald J and Gwendolyn Elkins
Elkins Trust
1059 Highway 50
Aztec, NM 87410

RE: LM Barton #1C well site: Below Grade Tank Permit Closure Notification

This letter serves as surface notification for the Below Grade Tank permit closure activities at the LM Barton #1C well site (API 30-045-30567), a lease operated by Four Star Oil and Gas Company. The LM Barton #1C is located in Section 12 T 30N R 12W, San Juan County, New Mexico.

This site was incorrectly designated as a Below Grade Tank. Four Star Oil and Gas Company is closing the permit and installing an Above Ground Tank.

We appreciate the opportunity to be of service. If you have questions or require additional information please contact me at 505-333-1941.

Respectfully submitted,

April E. Pohl
Regulatory Specialist
Midcontinent Business Unit
332 Road 3100
Aztec New Mexico 87410

Toni McKnight

From: CARROLL, RICHARD V [RCVB@chevron.com]
Sent: Thursday, August 01, 2013 11:31 AM
To: Toni McKnight
Subject: FW: Chevron LM Barton #1C - Produced Water Tank removal
Attachments: 2013 4-23 LM Barton #1C 95 bbl BGT closure.pdf; Site Map.pdf

Toni,

Don't know if you need a copy of this email to show notification was provided to NMOCD as part of preparing the C-141, but here it is in case you do (see below).

Richard Carroll
Waste & Water Specialist
Chevron - MCBU - Rocky Mountain Area
760 Horizon Drive
Grand Junction, CO 81506
Office: 970-257-6026
Cell: 970-589-9847
rcvb@chevron.com

From: CARROLL, RICHARD V
Sent: Thursday, July 25, 2013 10:10 AM
To: Powell, Brandon, EMNRD
Cc: Malone, Ryan [ENGlobal]; Lindsey, Don (LLIN)
Subject: Chevron LM Barton #1C - Produced Water Tank removal

Mr. Brandon Powell,

In a follow up to our phone conversation yesterday regarding the **Chevron LM Barton #1C (API# 30-045-30567)**, I am providing the following information.

- The LM Barton #1C location is currently being retrofitted with electrical power and is undergoing renovation including removal of much of the old equipment. As part of this project, a 95 barrel produced water tank was removed and initial sampling below the tank completed. In the past few days it has come to Chevron's attention that required notification to the OCD and the landowner prior to commencing clean up operations was not provided. The failure to provide the proper notifications seemed to evolve around confusion on if the tank was a BGT or an AGT. A C144 Form was submitted back in 2010 (see attached) permitting the tank as a BGT but a visual inspection of the site by the project team indicated the tank to be an AGT. The resulting confusion on the tanks regulatory status contributed to the proper notifications not being submitted.

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Chevron North America	Project #:	92270-1128
Sample No.:	1	Date Reported:	7/8/2013
Sample ID:	BGT 5-pt Comp	Date Sampled:	7/8/2013
Sample Matrix:	Soil	Date Analyzed:	7/8/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**332**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **LM Barton #1C**

Instrument calibrated to 1000 ppm standard and zeroed before each sample.

Analyst

Rene Garcia
Printed

Review

Toni McKnight, EIT
Printed

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envirotech-inc.com
info@envirotech-inc.com

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CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 8-Jul-13

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	1000	1000
	500	
	1000	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Analyst — Date: 7/8/2013

Rene Garcia
Print Name

Review — Date: 7/8/2013

Toni McKnight, EIT
Print Name

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envirotech-inc.com
info@envirotech-inc.com

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Analytical Laboratory

Analytical Report

Report Summary

Client: Chevron

Chain Of Custody Number: 15842

Samples Received: 7/8/2013 1:30:00PM

Job Number: 92270-1128

Work Order: P307021

Project Name/Location: LM Barton #1C/ BGT Closure

Entire Report Reviewed By: _____ Date: 7/10/13

Tim Cain, Laboratory Manager

Supplement to analytical report generated on: 7/10/13 7:46 am

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Analytical Laboratory

Chevron	Project Name:	LM Barton #1C/ BGT Closure	
322 Road 3100	Project Number:	92270-1128	Reported:
Aztec NM, 87410	Project Manager:	Chevron	10-Jul-13 08:39

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
1	P307021-01A	Soil	07/08/13	07/08/13	Glass Jar, 4 oz.

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Chevron	Project Name:	LM Barton #1C/ BGT Closure	
322 Road 3100	Project Number:	92270-1128	Reported:
Aztec NM, 87410	Project Manager:	Chevron	10-Jul-13 08:39

1

P307021-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1328005	08-Jul-13	09-Jul-13	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1328005	08-Jul-13	09-Jul-13	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1328005	08-Jul-13	09-Jul-13	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1328005	08-Jul-13	09-Jul-13	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1328005	08-Jul-13	09-Jul-13	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1328005	08-Jul-13	09-Jul-13	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1328005	08-Jul-13	09-Jul-13	EPA 8021B	
Surrogate: Bromochlorobenzene		*99.5 %*	*80-120*		*1328005*	*08-Jul-13*	*09-Jul-13*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.8 %*	*80-120*		*1328005*	*08-Jul-13*	*09-Jul-13*	*EPA 8021B*	
Surrogate: Fluorobenzene		*96.2 %*	*80-120*		*1328005*	*08-Jul-13*	*09-Jul-13*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1328004	08-Jul-13	09-Jul-13	EPA 8015D	
Diesel Range Organics (C10-C28)	**36.8**	5.00	mg/kg	1	1328004	08-Jul-13	09-Jul-13	EPA 8015D	
GRO and DRO Combined Fractions	**36.8**	5.00	mg/kg	1	1328004	08-Jul-13	09-Jul-13	EPA 8015D	
Cation/Anion Analysis									
Chloride	**1740**	10.0	mg/kg	1	1328006	08-Jul-13	08-Jul-13	EPA 300.0	

Chevron	Project Name:	LM Barton #1C/ BGT Closure	
322 Road 3100	Project Number:	92270-1128	Reported:
Aztec NM, 87410	Project Manager:	Chevron	10-Jul-13 08:39

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1328005 - Purge and Trap EPA 5030A										
Blank (1328005-BLK1)				Prepared: 08-Jul-13 Analyzed: 09-Jul-13						
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: Bromochlorobenzene	*49.5*		*ug/L*	*50.0*		*98.9*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*50.9*		"	*50.0*		*102*	*80-120*			
Surrogate: Fluorobenzene	*50.2*		"	*50.0*		*100*	*80-120*			
Duplicate (1328005-DUP1)		**Source: P307020-01**		Prepared: 08-Jul-13 Analyzed: 09-Jul-13						
Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	ND	0.05	"		ND				30	
o-Xylene	ND	0.05	"		ND				30	
Surrogate: Bromochlorobenzene	*50.2*		*ug/L*	*50.0*		*100*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*48.3*		"	*50.0*		*96.5*	*80-120*			
Surrogate: Fluorobenzene	*48.2*		"	*50.0*		*96.5*	*80-120*			
Matrix Spike (1328005-MS1)		**Source: P307020-01**		Prepared: 08-Jul-13 Analyzed: 09-Jul-13						
Benzene	0.05	0.001	mg/kg	0.0498	ND	97.9	39-150			
Toluene	0.05	0.001	"	0.0498	ND	97.7	46-148			
Ethylbenzene	0.05	0.001	"	0.0498	ND	97.0	32-160			
p,m-Xylene	0.10	0.001	"	0.0997	ND	97.2	46-148			
o-Xylene	0.05	0.001	"	0.0498	ND	97.8	46-148			
Surrogate: Bromochlorobenzene	*52.0*		*ug/L*	*50.0*		*104*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*49.8*		"	*50.0*		*99.6*	*80-120*			
Surrogate: Fluorobenzene	*49.9*		"	*50.0*		*99.9*	*80-120*			

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Analytical Laboratory

Chevron	Project Name:	LM Barton #1C/ BGT Closure	
322 Road 3100	Project Number:	92270-1128	Reported:
Aztec NM, 87410	Project Manager:	Chevron	10-Jul-13 08:39

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1328004 - GRO/DRO Extraction EPA 3550C										
Blank (1328004-BLK1)				Prepared: 08-Jul-13 Analyzed: 09-Jul-13						
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							
Diesel Range Organics (C10-C28)	ND	4.99	"							
GRO and DRO Combined Fractions	ND	4.99	"							
Duplicate (1328004-DUP1)		Source: P307020-01		Prepared: 08-Jul-13 Analyzed: 09-Jul-13						
Gasoline Range Organics (C6-C10)	ND	4.98	mg/kg		ND				30	
Diesel Range Organics (C10-C28)	ND	4.98	"		ND				30	
Matrix Spike (1328004-MS1)		Source: P307020-01		Prepared: 08-Jul-13 Analyzed: 09-Jul-13						
Gasoline Range Organics (C6-C10)	263	5.26	mg/kg	263	ND	100	75-125			
Diesel Range Organics (C10-C28)	260	5.26	"	263	ND	98.9	75-125			

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Chevron	Project Name:	LM Barton #1C/ BGT Closure	
322 Road 3100	Project Number:	92270-1128	Reported:
Aztec NM, 87410	Project Manager:	Chevron	10-Jul-13 08:39

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1328006 - Anion Extraction EPA 300.0										
Blank (1328006-BLK1)				Prepared & Analyzed: 08-Jul-13						
Chloride	ND	9.98	mg/kg							
Duplicate (1328006-DUP1)		Source: P307020-01		Prepared & Analyzed: 08-Jul-13						
Chloride	5420	9.99	mg/kg		4400			20.8	30	

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Chevron	Project Name:	LM Barton #1C/ BGT Closure	
322 Road 3100	Project Number:	92270-1128	Reported:
Aztec NM, 87410	Project Manager:	Chevron	10-Jul-13 08:39

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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CHAIN OF CUSTODY RECORD

15842

Client:	Project Name / Location:	ANALYSIS / PARAMETERS
Chevron	LM Barton #1C / BGT Closure	
Email results to:	Sampler Name:	
	René Garcia Reyes	
Client Phone No.:	Client No.:	
	92270-1128	

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative: HNO_3	Preservative: HCl	Preservative: Ice	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
1	7/8/13	10:30	P307021-01	4oz			X	X	X								X				X	X

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	7/8	13:30		7/8/13	13:30
Relinquished by: (Signature)			Received by: (Signature)		

Sample Matrix

Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐ _____

☐ Sample(s) dropped off after hours to secure drop off area.

RUSH

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Analytical Laboratory

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Analytical Laboratory

Analytical Report

Report Summary

Client: Chevron

Chain Of Custody Number: 15759

Samples Received: 7/17/2013 3:20:00PM

Job Number: 92270-1128

Work Order: P307050

Project Name/Location: LM Barton #1C

Entire Report Reviewed By: _____ Date: 7/23/13

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.

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Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301 Ph (970) 259-0615 Fr (800) 362-1879

Chevron	Project Name:	LM Barton #1C	
322 Road 3100	Project Number:	92270-1128	Reported:
Aztec NM, 87410	Project Manager:	Tiffany McIntosh	23-Jul-13 10:25

North 1 foot BGS

P307050-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cation/Anion Analysis									
Chloride	**443**	**10.0**	mg/kg	1	1329026	18-Jul-13	18-Jul-13	EPA 300.0	

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Analytical Laboratory

Chevron	Project Name:	LM Barton #1C	
322 Road 3100	Project Number:	92270-1128	Reported:
Aztec NM, 87410	Project Manager:	Tiffany McIntosh	23-Jul-13 10:25

South 1 foot BGS

P307050-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cation/Anion Analysis									
Chloride	976	9.99	mg/kg	1	1329026	18-Jul-13	18-Jul-13	EPA 300.0	

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Chevron	Project Name:	LM Barton #1C	
322 Road 3100	Project Number:	92270-1128	Reported:
Aztec NM, 87410	Project Manager:	Tiffany McIntosh	23-Jul-13 10:25

BGT 1 foot BGS

P307050-05 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cation/Anion Analysis									
Chloride	1270	10.0	mg/kg	1	1329026	18-Jul-13	18-Jul-13	EPA 300.0	

envirotech
Analytical Laboratory

Chevron	Project Name:	LM Barton #1C	
322 Road 3100	Project Number:	92270-1128	Reported:
Aztec NM, 87410	Project Manager:	Tiffany McIntosh	23-Jul-13 10:25

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1329026 - Anion Extraction EPA 300.0										
Blank (1329026-BLK1)				Prepared & Analyzed: 18-Jul-13						
Chloride	ND	10.0	mg/kg							
Duplicate (1329026-DUP1)		Source: P307050-01		Prepared & Analyzed: 18-Jul-13						
Chloride	451	10.0	mg/kg		443			1.97	30	

CHAIN OF CUSTODY RECORD

15759

Client:	Project Name / Location:
Chevron	LM Barton #1C
Email results to:	**Sampler Name:**
T. McIntosh	T. McIntosh
Client Phone No.:	**Client No.:**
505-215-1711	92270-1128

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
					HNO_3	HCl	Cool															
North 1 foot BGS	7/17/13	1245	P307050-01	ziplock bag			X										X				X	X
West 1 foot BGS		1230	P307050-02																		X	X
South 1 foot BGS		1315	P307050-03																		X	X
East 1 foot BGS		1300	P307050-04																		X	X
BGT 1 foot BGS		1345	P307050-05																		X	X
BGT 4 feet BGS		1330	P307050-06																		X	X

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Tiffany McIntosh	7/17/13	1520	William Gee	7/17/13	15:20
Relinquished by: (Signature)			Received by: (Signature)		

Sample Matrix

Soil ☑ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐ _____

☐ Sample(s) dropped off after hours to secure drop off area.

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Analytical Report

Report Summary

Client: Chevron

Chain Of Custody Number: 15763

Samples Received: 7/30/2013 11:55:00AM

Job Number: 92270-1128

Work Order: P307091

Project Name/Location: LM Barton #1C

Entire Report Reviewed By: _____ Date: 7/31/13

Tim Cain, Laboratory Manager

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Analytical Laboratory

Chevron	Project Name:	LM Barton #1C	
322 Road 3100	Project Number:	92270-1128	Reported:
Aztec NM, 87410	Project Manager:	Tiffany McIntosh	31-Jul-13 14:20

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Bottom	P307091-01A	Soil	07/30/13	07/30/13	Plastic Baggie
Stock Pile	P307091-02A	Soil	07/30/13	07/30/13	Plastic Baggie
Wall Composite	P307091-03A	Soil	07/30/13	07/30/13	Plastic Baggie

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Analytical Laboratory

Chevron	Project Name:	LM Barton #1C	
322 Road 3100	Project Number:	92270-1128	Reported:
Aztec NM, 87410	Project Manager:	Tiffany McIntosh	31-Jul-13 14:20

Bottom

P307091-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cation/Anion Analysis									
Chloride	**796**	10.0	mg/kg	1	1331010	30-Jul-13	30-Jul-13	EPA 300.0	

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Analytical Laboratory

Chevron	Project Name:	LM Barton #1C	
322 Road 3100	Project Number:	92270-1128	**Reported:**
Aztec NM, 87410	Project Manager:	Tiffany McIntosh	31-Jul-13 14:20

Stock Pile

P307091-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cation/Anion Analysis									
Chloride	**413**	10.0	mg/kg	1	1331010	30-Jul-13	30-Jul-13	EPA 300.0	

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Analytical Laboratory

Chevron	Project Name:	LM Barton #1C	
322 Road 3100	Project Number:	92270-1128	Reported:
Aztec NM, 87410	Project Manager:	Tiffany McIntosh	31-Jul-13 14:20

Wall Composite

P307091-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cation/Anion Analysis									
Chloride	**272**	9.99	mg/kg	1	1331010	30-Jul-13	30-Jul-13	EPA 300.0	

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Analytical Laboratory

Chevron	Project Name:	LM Barton #1C	
322 Road 3100	Project Number:	92270-1128	**Reported:**
Aztec NM, 87410	Project Manager:	Tiffany McIntosh	31-Jul-13 14:20

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1331010 - Anion Extraction EPA 300.0										
Blank (1331010-BLK1)				Prepared & Analyzed: 30-Jul-13						
Chloride	ND	10.0	mg/kg							
Duplicate (1331010-DUP1)		Source: P307091-01		Prepared & Analyzed: 30-Jul-13						
Chloride	816	10.0	mg/kg		796			2.51	30	

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Analytical Laboratory

Chevron	Project Name:	LM Barton #1C	
322 Road 3100	Project Number:	92270-1128	Reported:
Aztec NM, 87410	Project Manager:	Tiffany McIntosh	31-Jul-13 14:20

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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1 day Rush

CHAIN OF CUSTODY RECORD

15763

Client:	Project Name / Location:
Chevron	LM Barton #1C
Email results to: T. McIntosh / T. McKnight	Sampler Name: T. McIntosh
Client Phone No.:	Client No.: 92270-1128

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative HNO_3	Preservative HCl	Preservative Cool	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
Bottom	7/30/13	1005	P307091-01	zip lock bag			X										X				X	X
Stock Pile	"	1010	P307091-02	"			"										"				X	X
Wall Composite	"	1000	P307091-03	"			"										"				X	X

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Tiffany McIntosh	7/30/13	1155	Miriam Joe	7/31/13	11:55
Relinquished by: (Signature)			Received by: (Signature)		

Sample Matrix

Soil ☑ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐ _____

☐ Sample(s) dropped off after hours to secure drop off area.

1 day RUSH

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Analytical Report

Report Summary

Client: Chevron

Chain Of Custody Number: 15912

Samples Received: 7/31/2013 2:20:00PM

Job Number: 92270-1128

Work Order: P307103

Project Name/Location: LM Barton #1C

Entire Report Reviewed By: _____ Date: 8/2/13

Tim Cain, Laboratory Manager

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Chevron	Project Name:	LM Barton #1C	
322 Road 3100	Project Number:	92270-1128	Reported:
Aztec NM, 87410	Project Manager:	Tiffany McIntosh	02-Aug-13 09:54

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Bottom at 5 ft	P307103-01A	Soil	07/31/13	07/31/13	Plastic Baggie

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Analytical Laboratory

Chevron	Project Name:	LM Barton #1C	
322 Road 3100	Project Number:	92270-1128	Reported:
Aztec NM, 87410	Project Manager:	Tiffany McIntosh	02-Aug-13 09:54

Bottom at 5 ft

P307103-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cation/Anion Analysis									
Chloride	**162**	9.99	mg/kg	1	1331020	01-Aug-13	01-Aug-13	EPA 300.0	

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Chevron	Project Name:	LM Barton #1C	
322 Road 3100	Project Number:	92270-1128	**Reported:**
Aztec NM, 87410	Project Manager:	Tiffany McIntosh	02-Aug-13 09:54

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1331020 - Anion Extraction EPA 300.0										
Blank (1331020-BLK1)				Prepared & Analyzed: 01-Aug-13						
Chloride	ND	9.99	mg/kg							
Duplicate (1331020-DUP1)		Source: P307103-01		Prepared & Analyzed: 01-Aug-13						
Chloride	162	10.0	mg/kg		162			0.108	30	

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Analytical Laboratory

Chevron	Project Name:	LM Barton #1C	
322 Road 3100	Project Number:	92270-1128	Reported:
Aztec NM, 87410	Project Manager:	Tiffany McIntosh	02-Aug-13 09:54

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

RUSH

CHAIN OF CUSTODY RECORD

15912

Client: CHEVRON NORTH AMERICA	Project Name / Location: LM BARTON #1C
Email results to:	Sampler Name: T. McKnight
Client Phone No.:	Client No.: 92270-1128

ANALYSIS / PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative HNO_3	Preservative HCl	Preservative Cool	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
Bottom at 5 Ft	7/31/13	13:00	P307103-01	1 Plastic Bag			✓										✓				X	X

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Toni McKnight	7/31/13	14:20	[signature]	7/31/13	14:20
Relinquished by: (Signature)			Received by: (Signature)		

Sample Matrix

Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐ ____________

☐ Sample(s) dropped off after hours to secure drop off area.

RUSH

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Field Chloride

Client:	Chevron North America	Project #:	92270-1128
Sample ID.:	1	Date Reported:	7/8/2013
Sample Description:	BGT-5pt Composite	Date Sampled:	7/8/2013
Sample Matrix:	Soil	Date Analyzed:	7/8/2013
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	**2,120**	**32.0**

ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992
Hach Company Quantab Titrators for Chloride

Comments: **LM Barton #1C**

Analyst

Rene Garcia
Printed

Review

Toni McKnight, EIT
Printed

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Field Chloride

Client:	Chevron North America	Project #:	92270-1128
Sample ID.:	N	Date Reported:	7/11/2013
Sample Description:	Background (North)	Date Sampled:	7/11/2013
Sample Matrix:	Soil	Date Analyzed:	7/11/2013
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	**39**	**32.0**

ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992
Hach Company Quantab Titrators for Chloride

Comments: **LM Barton #1C**

Analyst

Tiffany McIntosh
Printed

Review

Toni McKnight, EIT
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Field Chloride

Client:	Chevron North America	Project #:	92270-1128
Sample ID.:	W	Date Reported:	7/11/2013
Sample Description:	Background (West)	Date Sampled:	7/11/2013
Sample Matrix:	Soil	Date Analyzed:	7/11/2013
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	**ND**	**32.0**

ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992
Hach Company Quantab Titrators for Chloride

Comments: **LM Barton #1C**

Tiffany McIntosh
Analyst

Tiffany McIntosh
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Toni McKnight
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Field Chloride

Client:	Chevron North America	Project #:	92270-1128
Sample ID.:	S	Date Reported:	7/11/2013
Sample Description:	Background (South)	Date Sampled:	7/11/2013
Sample Matrix:	Soil	Date Analyzed:	7/11/2013
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	**ND**	**32.0**

ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992
Hach Company Quantab Titrators for Chloride

Comments: **LM Barton #1C**

Tiffany McIntosh
Analyst

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Field Chloride

Client:	Chevron North America	Project #:	92270-1128
Sample ID.:	E	Date Reported:	7/11/2013
Sample Description:	Background (East)	Date Sampled:	7/11/2013
Sample Matrix:	Soil	Date Analyzed:	7/11/2013
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	**92**	**32.0**

ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992
Hach Company Quantab Titrators for Chloride

Comments: **LM Barton #1C**

Tiffany McIntosh
Analyst

Toni McKnight
Review

Tiffany McIntosh
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Field Chloride

Client:	Chevron North America	Project #:	92270-1128
Sample ID.:	3	Date Reported:	7/17/2013
Sample Description:	South 1 Foot BGS	Date Sampled:	7/17/2013
Sample Matrix:	Soil	Date Analyzed:	7/17/2013
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	**>630**	**32.0**

ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992
Hach Company Quantab Titrators for Chloride

Comments: **LM Barton #1C**

Analyst

Tiffany McIntosh
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Field Chloride

Client:	Chevron North America	Project #:	92270-1128
Sample ID.:	4	Date Reported:	7/17/2013
Sample Description:	East 1 Foot BGS	Date Sampled:	7/17/2013
Sample Matrix:	Soil	Date Analyzed:	7/17/2013
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	**63**	**32.0**

ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992
Hach Company Quantab Titrators for Chloride

Comments: **LM Barton #1C**

Analyst

Tiffany McIntosh
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Review

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Field Chloride

Client:	Chevron North America	Project #:	92270-1128
Sample ID.:	5	Date Reported:	7/17/2013
Sample Description:	BGT 1 Foot BGS	Date Sampled:	7/17/2013
Sample Matrix:	Soil	Date Analyzed:	7/17/2013
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	**>630**	**32.0**

ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992
Hach Company Quantab Titrators for Chloride

Comments: **LM Barton #1C**

Analyst

Tiffany McIntosh
Printed

Review

Toni McKnight, EIT
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Field Chloride

Client:	Chevron North America	Project #:	92270-1128
Sample ID.:	North	Date Reported:	7/30/2013
Sample Description:	North	Date Sampled:	7/30/2013
Sample Matrix:	Soil	Date Analyzed:	7/30/2013
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	**132**	**32.0**

ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992
Hach Company Quantab Titrators for Chloride

Comments: **LM Barton #1C**

Analyst

Tiffany McIntosh
Printed

Review

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Field Chloride

Client:	Chevron North America	Project #:	92270-1128
Sample ID.:	West	Date Reported:	7/30/2013
Sample Description:	West	Date Sampled:	7/30/2013
Sample Matrix:	Soil	Date Analyzed:	7/30/2013
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	**419**	**32.0**

ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992
Hach Company Quantab Titrators for Chloride

Comments: **LM Barton #1C**

Tiffany McIntosh
Analyst

Tiffany McIntosh
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Toni McKnight
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Field Chloride

Client:	Chevron North America	Project #:	92270-1128
Sample ID.:	South	Date Reported:	7/30/2013
Sample Description:	South	Date Sampled:	7/30/2013
Sample Matrix:	Soil	Date Analyzed:	7/30/2013
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	**82**	**32.0**

ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992
Hach Company Quantab Titrators for Chloride

Comments: **LM Barton #1C**

Tiffany McIntosh
Analyst

Tiffany McIntosh
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Toni McKnight
Review

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Field Chloride

Client:	Chevron North America	Project #:	92270-1128
Sample ID.:	East	Date Reported:	7/30/2013
Sample Description:	East	Date Sampled:	7/30/2013
Sample Matrix:	Soil	Date Analyzed:	7/30/2013
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	**139**	**32.0**

ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992
Hach Company Quantab Titrators for Chloride

Comments: **LM Barton #1C**

Analyst

Tiffany McIntosh
Printed

Review

Toni McKnight, EIT
Printed

5796 US Highway 64, Farmington, NM 87401 Ph (505) 632-0615 Fx (505) 632-1865
Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301 Ph (970) 259-0615 Fr (800) 362-1879
envirotech-inc.com
info@envirotech-inc.com

envirotech

Field Chloride

Client:	Chevron North America	Project #:	92270-1128
Sample ID.:	Bottom Low Range	Date Reported:	7/17/2013
Sample Description:	Bottom Low Range	Date Sampled:	7/17/2013
Sample Matrix:	Soil	Date Analyzed:	7/17/2013
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	**>630**	**32.0**

ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992
Hach Company Quantab Titrators for Chloride

Comments: **LM Barton #1C**

Tiffany McIntosh
Analyst

Tiffany McIntosh
Printed

Toni McKnight
Review

Toni McKnight, EIT
Printed

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info@envirotech-inc.com

envirotech

Field Chloride

Client:	Chevron North America	Project #:	92270-1128
Sample ID.:	Stock Pile	Date Reported:	7/30/2013
Sample Description:	Stock Pile	Date Sampled:	7/30/2013
Sample Matrix:	Soil	Date Analyzed:	7/30/2013
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	**322**	**32.0**

ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992
Hach Company Quantab Titrators for Chloride

Comments: **LM Barton #1C**

Analyst

Tiffany McIntosh
Printed

Review

Toni McKnight, EIT
Printed

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Field Chloride

Client:	Chevron North America	Project #:	92270-1128
Sample ID.:	Bottom (High Range)	Date Reported:	7/30/2013
Sample Description:	Bottom (High Range)	Date Sampled:	7/30/2013
Sample Matrix:	Soil	Date Analyzed:	7/30/2013
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	**965**	**32.0**

ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992
Hach Company Quantab Titrators for Chloride

Comments: **LM Barton #1C**

Tiffany McIntosh
Analyst

Tiffany McIntosh
Printed

Toni McKnight
Review

Toni McKnight, EIT
Printed

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info@envirotech-inc.com

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Field Chloride

Client:	Chevron North America	Project #:	92270-1128
Sample ID.:	1	Date Reported:	7/31/2013
Sample Description:	Bottom at 5 Feet	Date Sampled:	7/31/2013
Sample Matrix:	Soil	Date Analyzed:	7/31/2013
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	**227**	**32.0**

ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992
Hach Company Quantab Titrators for Chloride

Comments: **LM Barton #1C**

Toni McKnight
Analyst

Toni McKnight, EIT
Printed

Tiffany McIntosh
Review

Tiffany McIntosh
Printed

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envirotech-inc.com
info@envirotech-inc.com

envirotech

Bill of Lading

MANIFEST # 44176

DATE 7-16-13 JOB # 9220-1131

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Chevron LM Barrod TC	BF	Tank Bottoms		—	15	M&R	1003	17:55	
2	" "	" "	Washout		—	5	M&R	1003	17:55	
						20				

RESULTS:			
405	CHLORIDE TEST		LANDFARM EMPLOYEE:
	PAINT FILTER TEST		Certification of above receival & placement

NOTES:

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. M & R NAME Hubert Yazzie SIGNATURE

COMPANY CONTACT PHONE DATE

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Bill of Lading

MANIFEST # 44306

DATE 7/30/13 JOB # 92210-1128

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Chevron LM Barbara #1	LF2	Cont. Soil	Z-6	12	-	Paul and Son	317	1300	
2	" "	" "	" "	Z-5	12	-	" "	317	14:55	
3	" "	" "	" "	Z-5	12	-	" "	317	16:40	
					36					

RESULTS:		LANDFARM EMPLOYEE:	NOTES:
292	CHLORIDE TEST	Dawn Robinson	
	PAINT FILTER TEST	Certification of above receival & placement	

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. Paul & Son Construction NAME Josh Velasquez SIGNATURE

COMPANY CONTACT Josh Velasquez PHONE 505-860-0223 DATE 7/30/13

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Bill of Lading

MANIFEST # 44308 92210-11BM

DATE 7-30-13 JOB # [illegible] 28

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Chevron LA Bredon #2	LF II	Cont Soil	2-5	10	—	L&L	25	15:10	[signature]
2	" "	" "	" "	2-5	10	—	L&L	25	17:10	[signature]
					20					

RESULTS:

192	CHLORIDE TEST	
	PAINT FILTER TEST	

LANDFARM EMPLOYEE: [signature]

Certification of above receival & placement

NOTES:

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. L&L NAME Robert Gallison SIGNATURE [signature]

COMPANY CONTACT Robert Gallison PHONE 505-330-1820 DATE 7-30-13

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envirotech **Bill of Lading**

MANIFEST # 44320

DATE 7-31-13 JOB # 92270-1128

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Chevron Lybrook 82	LF II	Cont Soil	AA-5	12	—	R.W. Miller	D07	10:05	[signature]
2	" "	" "	" "	AA-5	12	—	" "	D07	11:45	[signature]
					24					

RESULTS:		LANDFARM EMPLOYEE: [signature]	NOTES:
292	CHLORIDE TEST		
	PAINT FILTER TEST	Certification of above receival & placement	

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO Ralph W Miller NAME George Begay SIGNATURE [signature]

COMPANY CONTACT Ralph W Miller PHONE (505) 325-3609 DATE 7/31/13

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Bill of Lading

MANIFEST # 44321

DATE 7-31-13 JOB # 92270-1128

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
2	Chevron La Barbon #2	CF II	Cont Soil	AA-5	12	–	Paul & Son	317	10:15	[signature]
2	" "	" "	" "	AA-5	12	–	Paul & Son	317	12:00	[signature]
					24					

RESULTS:

292 CHLORIDE TEST

PAINT FILTER TEST

LANDFARM EMPLOYEE: [signature]

Certification of above receival & placement

NOTES:

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. Paul & Son Construction NAME Josh Velasquez SIGNATURE [signature]

COMPANY CONTACT Josh Velasquez PHONE 505-860-0223 DATE 7-31-13

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Bill of Lading

MANIFEST # 44323

DATE 7-31-13 JOB # 92270-1128

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Chevron LM Barnes #2	LF II	Cont Soil	AA-5	10	—	L&L	25	10:20	[signature]
2	" "	" "	" "	AA-5	10	—	L&L	25	12:05	[signature]
					20					

RESULTS:

292	CHLORIDE TEST	LANDFARM EMPLOYEE:	[signature]
	PAINT FILTER TEST	Certification of above receival & placement	

NOTES:

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. L&L Oil Field Service NAME Robert Garrison SIGNATURE [signature]

COMPANY CONTACT Robert Garrison PHONE 505-330-1820 DATE 7-31-13

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August 1, 2013

Project No. 92270-1128

Mr. Don Lindsey
Chevron North America
332 Rd 3100
Aztec, New Mexico 87410

Email: llin@chevron.com

Phone: (505) 320-3549
Fax: (505) 334-7134

RE: LEAD SAMPLING REPORT FOR THE LM BARTON #1C LOCATED IN SAN JUAN COUNTY, NEW MEXICO

Dear Mr. Lindsey,

On July 8, 2013, Envirotech collected two (2) suspect samples of lead paint from the LM Barton #1C site located in San Juan County, New Mexico as requested by Mr. Kenny Dearen (505-947-3205). One (1) suspect lead paint sample was collected from the Separator and one (1) suspect lead paint sample was collected from the Below Ground Tank (BGT).

These samples were shipped standard overnight for analysis under Chain of Custody Record No. CAL13076734 to Crisp Analytical Laboratories, L.L.C. Carrollton, Texas; CA Labs is a Dallas NVLAP Accredited Asbestos Analytical Laboratory, Accreditation No. 200349-0.

The following table shows a detailed breakdown of the sampling results:

SAMPLE #	LOCATION / DESCRIPTION	RESULTS (%PB)
O-7354	Separator – Paint	Lead Containing at 0.0110%
O-7355	***Below Ground Tank (BGT) – Paint***	***Lead Based at 9.8049%***

As per the attached results, the sample of suspect lead paint collected from the Separator resulted in 0.0110% by weight for lead containing. Therefore, this material is below US EPA designation of 0.5% by weight for lead based. Therefore, this material may be disturbed, removed and disposed of as non-hazardous waste by regular construction personnel. Envirotech still recommends using the proper personal protection equipment (PPE) when disturbing or removing this material.

The sample of suspect lead paint collected from the Below Ground Tank (BGT) resulted in 9.8049% by weight for lead based paint. This material is above the US EPA designation of 0.5% by weight for lead based. Therefore, this material may only be disturbed, removed and properly disposed of by certified personnel using the proper personal protection equipment (PPE) for lead abatement.

We appreciate the opportunity to be of service, should you have any questions or need any additional information please call me at (505) 632-0615.

Thank you,
ENVIROTECH, INC.

Donald P. Ortiz
Field Operations Manager
dortiz@envirotech-inc.com

Attachment: Analytical Results
DPO:rjm/Office/Client/ACM/92270Chevron/92270-0458LSBarton#1C/LeadSamplingReport.doc

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Atomic Absorption Lead Report

Analysis Method: Lead in Paint analyzed by Atomic Absorption (AA)/SW-846-7420;
This analysis is not covered by the scope of accreditation by NVLAP or AIHA.

Sample Prep Method: Samples are dissolved in nitric acid, extracted, and analyzed on a properly calibrated AA; Absorbency curve was calculated, bandwidth corrected, and wavelength at the time of the analysis was measured and recorded.

Client Information:
Envirotech, Inc.
5796 US Hwy 64
Farmington, NM 87401

Phone: 505-632-0615
Fax: 505-632-1835

Client Project:
92270-1128, Chevron, LM Barton #1C

Turnaround Time: 3 Days
Attn: Rocky Martinez

CA Labs Project #:
CAL13076734CB

Date of Sampling: 7/8/13
Report Date: 7/12/13
Samples Received: 7/10/13 10:30am
Purchase Order #: 1776

Sample#		Sample Concentration: parts per million (ppm)	Weight Percent:
0-7354 Lead / Separator – Paint		<109.59	<0.0110
0-7355 Lead / BGT – Paint		98,048.78	9.8049
Lab Blank	< 1.00	----	----

Quality Control:
Duplicate: 1.0 **RPD**
Spike: 99.2 **% Recovery**

NVLAP # 200349-0

Approved Signatories:

Julio Robles
Analyst

TDH # 30-0235

Page 1 of 1

Leslie Crisp
Laboratory Director

Chad Lytle
Senior Analyst

Notes
The current guidelines for lead in paint from the Consumer Products Safety Council (CPSC) is 0.06% by weight, the Housing and Urban Development (HUD) guideline is 0.5% by weight.

CA Labs is participating in ELPAT rounds sponsored by American Industrial Hygiene Association (AIHA) and National Lead Laboratory Program (NLLAP). This test reports relates only to the items tested. Neither AIHA, NVLAP nor EPA accreditation implies endorsement by any US Government agency. CA Labs is accredited by the American Industrial Hygiene Association (AIHA LAP, LLC) in the TEM, PLM, and PCM asbestos fields of testing for Industrial Hygiene and in the culturable fungi field of testing for Environmental Microbiology. This report may not be reproduced except in full without written permission from CA Labs. This Method is not covered by the AIHA accreditation for Environmental Hygiene.

These results are submitted pursuant to CA Labs' current terms and condition of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee may be assessed for the return of any samples.

CA Labs
Dedicated to Quality

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Phone 225-751-5632
Fax 225-751-5634

ATOMIC ABSORPTION
LEAD ANALYSIS
LABORATORY ANALYSIS REPORT

Envirotech, Inc.
5796 US Hwy 64
Farmington, NM 87401

Reference number: CAL13076734CB

LABORATORY ANALYSIS:

Summary of lead analysis by atomic absorption in all relevant media using the method described in SW-846-7420. All analysts have received the necessary in-house and extramural training to perform analysis of samples for the presence of lead. A duplicate analysis is performed on greater than ten percent of all samples. A spiked concentration sample is analyzed with each sample group for instrument calibration. All analysts are required to participate in quality control analysis rounds. Instrument calibrations are performed on a daily, weekly, and monthly basis.

CA Labs is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM) and by the USEPA for analysis of asbestos in drinking water. CA Labs is accredited by the American Industrial Hygiene Association (AIHA LAP, LLC) PLM, TEM and PCM Asbestos fields of testing for industrial hygiene. This analysis is not covered by the scope of accreditation by NVLAP. This method is not covered by the AIHA accreditation for Industrial Hygiene.

This report must not be used to claim product endorsement by AIHA or any agency of the U.S. Government. This test relates only to the items described and tested herein. This report may not be reproduced except in full, without written permission by CA Labs.

METHOD:

The procedure for paint chip analysis follows AOAC5.009(974.02) and SW-846-7420. The analysis of soil, wipes, and wastewater for the presence of lead is also referenced by SW-846-7420. Methodology for the analysis of lead in air samples follows NIOSH Method 7082.

Analysis performed at Crisp Analytical Labs, L.L.C. 1929 Old Denton Road Carrollton, TX 75006: phone (972) 242-2754; fax (972) 242-2798, after hours mobile (214) 564-8366.

CA Labs

Crisp Analytical Laboratories, L.L.C
1929 Old Denton Rd.
Carrollton, TX 75006

Phone: 972-242-2754
Fax: 972-242-2798
Mobile: 469-222-6967

Chain of Custody

Client Name:	Envirotech, Inc.	CA Labs job #	CAL 1307673Y
Client Address:	5796 US Hwy 64 Farmington, NM 87401	Billing Address: (if different)	
Phone number:	(505) 632-0615	P.O. # :	1776
Fax number:	(505) 632-1865	Project Name:	LM Barton #1C
Email:	rmartinez@envirotech-inc.com & jvalencia@envirotech-inc.com	Project Number:	92270-1128, Chevron
Contact:		Reports Results VIA:	EMAIL X FAX VERBAL X

Total # Samples Submitted:	Total # Samples to be Analyzed:	Material Matrix:
3	3	Air / Bulk / Water

Asbestos: *please call ahead for availability of all rush and/or after hours samples.*

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
Circle analysis and TA time		*Circle analysis and TA time*	*2 hour*	PCM: NIOSH 7400	Note TAT
AHERA	*4 hour*	Improved	4 hour	**Allergen Particle:**	24 hour
EPA Level II	8 hour	Interim	8 hour	tape/bulk/swab	2 days
Drinking Water	16 hour		16 hour	Cyclex-d cassettes	3 days
Wipe	24 hour	~~AHERA~~	24 hour	Air-o-cell cassettes	5-10 days
Micro-vac	2 days		2 days	Anderson cultures	Specify
NIOSH 7402	3 days	Point Count -	~~2 days~~	Bulk/swab cultures	Mold or
Chatfield Bulk	5 days	(NESHAPS)	5 days	Bacteria cultures	bacteria

Please indicate appropriate turn around time. (minimum turnaround - 24 hrs for Lead TCLP and water)

Lead: *Circle analysis and TA time*

Matrix:	Paint Chips	Soil	Air	Wipes	Wastewater	
TA Time:	*8 hour*	1 day	2 days	3 days	5 days	6-10 days

Sample Information:

Sample Number:	Sample Location:	Sample Date/Time:	Sample Volume (L)
O-7354	Lead / Separator - Paint	07/08/2013	
O-7355	Lead / BGT - Paint	07/08/2013	
O-7356	ACM / Separator - Gasket	07/08/2013	

Rene

Custody Information:

Samples relinquished: July 8, 2013 3:16 PM
Signature / Date / Time

Samples received: 7/10/13 10:32am
Signature / Date / Time

Samples relinquished:
Signature / Date / Time

Samples received:
Signature / Date / Time

envirotech

August 1, 2013 Project No. 92270-1128

Mr. Don Lindsey
Chevron North America
332 Rd 3100
Aztec, New Mexico 87410

Email: llin@chevron.com

Phone: (505) 320-3549
Fax: (505) 334-7134

RE: ASBESTOS SAMPLING REPORT FOR THE LM BARTON #1C LOCATED IN SAN JUAN COUNTY, NEW MEXICO.

Dear Mr. Lindsey,

On July 8, 2013, Envirotech collected one (1) suspect Asbestos Containing Material (ACM) sample from the LM Barton #1C site located in San Juan County, New Mexico as requested by Mr. Kenny Dearen (505-947-3205).

This sample was shipped standard overnight under Chain-of-Custody Record No. CAL13076735 to Crisp Analytical Laboratories, L.L.C. Carrollton, Texas; CA Labs is a Dallas NVLAP Accredited Asbestos Analytical Laboratory, Accreditation No. 200349-0.

The following table shows a breakdown of the analysis:

Lab ID#	Location / Layer	Sample Description	ACM Detected
O-7356	Separator-Layer 1	Brown Gasket	None
	Separator-Layer 2	Gray Plaster	None

As per the attached analytical results, the sample of suspect gray gasket collected from the Separator resulted in two (2) separate layers and did **not** detect any asbestos. Therefore, this material can be removed and disposed of as non-hazardous waste.

We appreciate the opportunity to be of service and look forward to working with you in the future. If you should require additional information or have any questions, please contact our office at (505) 632-0615.

Thank you,
ENVIROTECH, INC.

Donald P. Ortiz
Field Operations Manager
dortiz@envirotech-inc.com

Attachment: Analytical Results

DPO:rjm/Office/Client/ACM/92270Chevron/92270-1128LMBarton#1C/ACMReport.doc

CA Labs
Dedicated to Quality

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Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Envirotech, Inc.
5796 US Hwy 64
Farmington, NM 87401

Attn: Rocky Martinez
Customer Project: 92270-1128, Chevron, LM Barton #1C
Reference #: CAL13076735CB Date: 7/15/2013

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated of asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found be PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be delectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". ***In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.***

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines .Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: 92270-1128, Chevron, LM Barton #1C **CA Labs Project #:** CAL13076735CB

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

No Asbestos Detected.

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

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Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Rocky Martinez
Envirotech, Inc.
5796 US Hwy 64
Farmington, NM 87401

Phone # 505-632-0615
Fax # 505-632-1835

Customer Project:
92270-1128, Chevron, LM Barton #1C
Turnaround Time:
3 Days

CA Labs Project #:
CAL13076735CB

Date: 7/15/2013
Samples Received: 7/10/13 10:30am
Date Of Sampling: 7/8/13
Purchase Order #: 1776

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
0-7356		*7356-1*	***Separator - Gasket/*** *brown gasketing*	*y*	***None Detected***	66% fg	34% qu,bi
		7356-2	*gray plaster*	*y*	***None Detected***		100% qu,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: *Interim* (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Julio Robles
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1 Fire Damage significant fiber damage - reported percentages reflect undistored fibers
2 Fire Damage no significant fiber damages effecting fibrous percentages
3 Actinolite in association with Vermiculite
4 Layer not analyzed - attached to previous positive layer and contamination is suspected
5 Not enough sample to analyze
6 Anthophyllite in association with Fibrous Talc
7 Contamination suspected from other building materials
8 Favorable scenario for water separation on vermiculite for possible analysis by another method
9 < 1% Result point counted positive
10 TEM analysis suggested

CA Labs

Crisp Analytical Laboratories, L.L.C
1929 Old Denton Rd.
Carrollton, TX 75006

Phone: 972-242-2754
Fax: 972-242-2798
Mobile: 469-222-6967

Chain of Custody

Client Name:	Envirotech, Inc.	CA Labs job #	CAL 1307673
Client Address:	5796 US Hwy 64	Billing Address:	
	Farmington, NM 87401	(if different)	
Phone number:	(505) 632-0615	P.O. #	1776
Fax number:	(505) 632-1865	Project Name:	LM Barton #1C
Email:	rmartinez@envirotech-inc.com & jvalencia@envirotech-inc.com	Project Number:	92270-1128, Chevron
Contact:		Reports Results VIA:	EMAIL X FAX VERBAL X

Total # Samples Submitted:	Total # Samples to be Analyzed:	Material Matrix:
3	3	Air / (Bulk) / Water

Asbestos: *please call ahead for availability of all rush and/or after hours samples.*

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
Circle analysis and TA time		*Circle analysis and TA time*	*2 hour*	PCM: NIOSH 7400	Note TAT
AHERA	*4 hour*	Improved	4 hour	**Allergen Particle:**	24 hour
EPA Level II	8 hour	Interim	8 hour	tape/bulk/swab	2 days
Drinking Water	16 hour		16 hour	Cyclex-d cassettes	3 days
Wipe	24 hour	(AHERA)	24 hour	Air-o-cell cassettes	5-10 days
Micro-vac	2 days		2 days	Anderson cultures	Specify
NIOSH 7402	3 days	Point Count -	(3 days)	Bulk/swab cultures	Mold or
Chatfield Bulk	5 days	(NESHAPS)	5 days	Bacteria cultures	bacteria

Please indicate appropriate turn around time. *(minimum turnaround 24 hrs for Lead TCLP and water)*

Lead: *Circle analysis and TA time*

Matrix:	~~Paint Chips~~	Soil	Air	Wipes	Wastewater	
TA Time:	*8 hour*	1 day	2 days	(3 days)	5 days	6-10 days

Sample Information:

Sample Number:	Sample Location:	Sample Date/Time:	Sample Volume (L)
~~O-7354~~	~~Lead / Separator - Paint~~	~~07/08/2013~~	
~~O-7355~~	~~Lead / 965 - Paint~~	~~07/08/2013~~	
O-7356	ACM / Separator - Gasket	07/08/2013	

Rene

Custody Information:

Samples relinquished: July 8, 2013 3:16 PM
Signature / Date / Time

Samples received: 7/10/13 10:32am
Signature / Date / Time

Samples relinquished:
Signature / Date / Time

Samples received
Signature / Date / Time

Site Photography
Chevron North America
LM Barton #1C Well Site
Below Grade Tank Closure
Project No. 92270-1128
July 2013

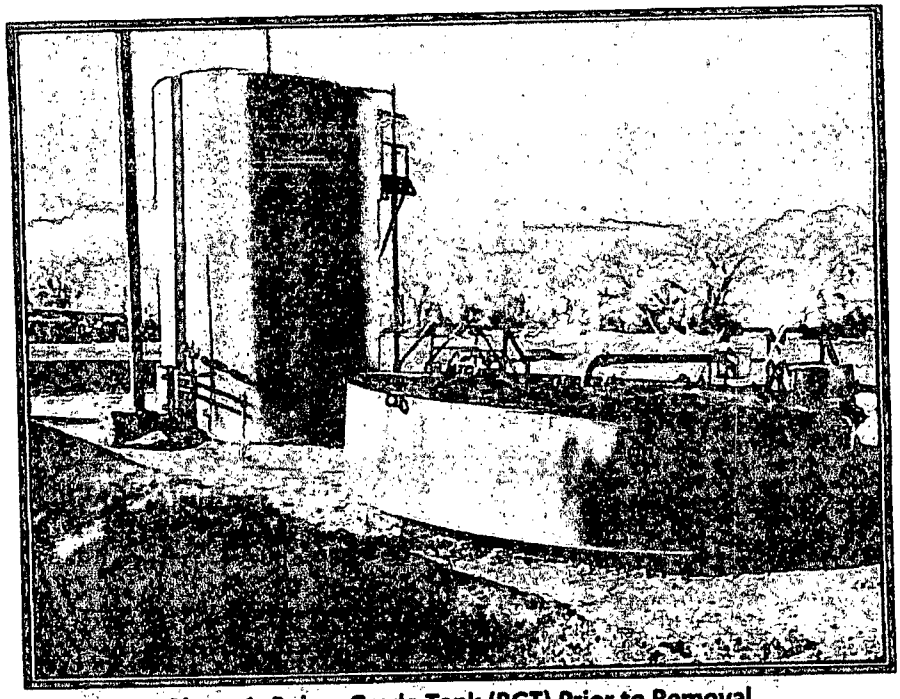

Photo 1: Below Grade Tank (BGT) Prior to Removal

Photo 2: Removed and Excavated BGT

Site Photography
Chevron North America
LM Barton #1C Well Site
Below Grade Tank Closure
Project No. 92270-1128
July 2013

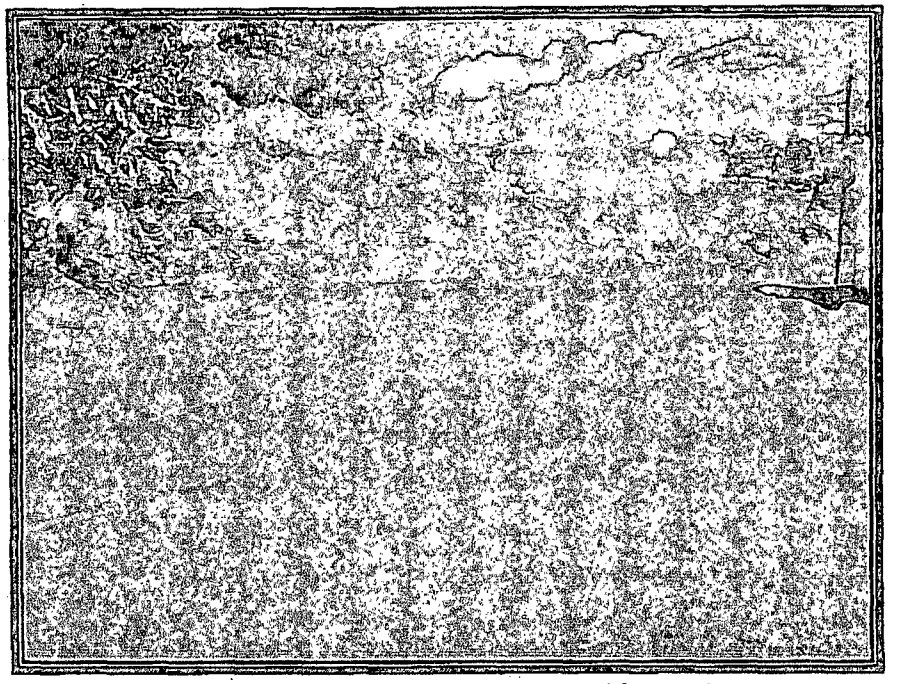

Photo 3: Backfilled and Re-contoured (View 1)

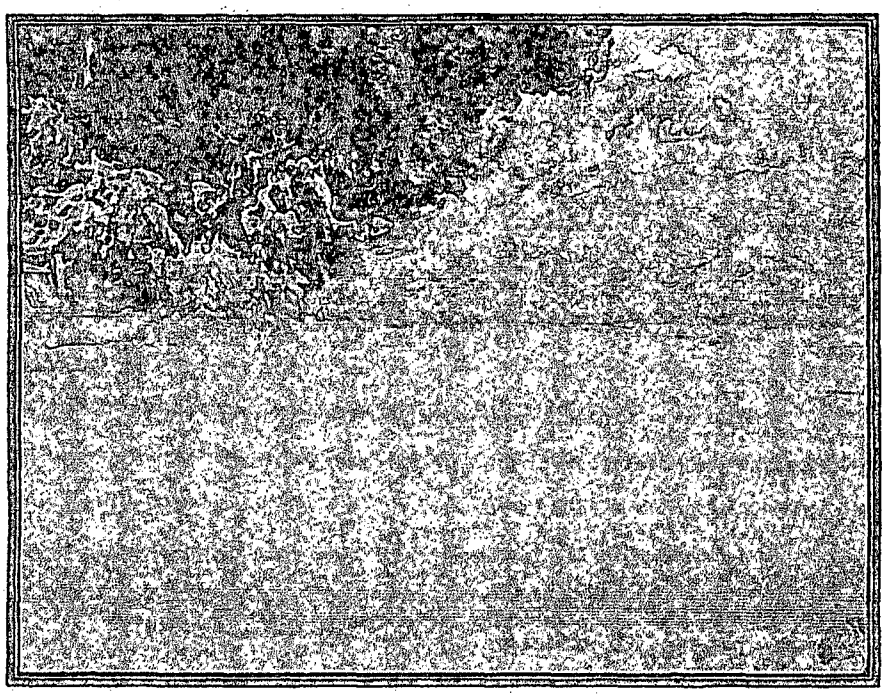

Photo 4: Backfilled and Re-contoured (View 2)

envirotech

OIL CONS. DIV DIST. 3
OCT 02 2013

September 9, 2013

Project Number 92270-1128

Mr. Brandon Powell
New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87410

Phone (505) 334-6178
brandon.powell@state.nm.us

RE: BELOW-GRADE TANK CLOSURE DOCUMENTATION FOR THE LM BARTON #1C WELL SITE, SAN JUAN COUNTY, NEW MEXICO

Dear Mr. Powell:

On behalf of Chevron North America please find enclosed the Below-Grade Tank (BGT) Closure Plan, Form C-141, and Form C-144 and required documents for BGT closure activities conducted at the LM Barton #1C well site located in Section 12, Township 30 North, Range 12 West, San Juan County, New Mexico.

This report details sample results above the regulatory limit for total petroleum hydrocarbons (TPH) using USEPA Method 418.1 and total chlorides, confirming a release had occurred; see attached ***Analytical Results***. The contaminated area was excavated and re-sampled for closure. Closure samples returned results below the cleanup standards determined for the site for TPH using USEPA Method 8015 and for total chlorides using USEPA Method 300.1. Envirotech, Inc. recommends no further action in regards to this incident.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully Submitted,
ENVIROTECH, INC.

Toni McKnight, EIT
Environmental Project Manager
tmcknight@envirotech-inc.com

Enclosures: Below Grade Tank Closure Documentation

Email Cc: Mr. Adam Oliver – Chevron NA
Mr. Richard Carroll – Chevron NA