



August 15, 2011



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Subject: **Site Assessment Report**  
Marathon Water Transfer Line Release  
API # 30-015-36555 – 2RP-791

Dear Mr. Barrett,

Lime Rock Resources Operating Company, Inc. (Lime Rock) has contracted Talon/LPE (Talon) to conduct a contamination assessment in response to the recent release at the above referenced facility. This report details our field testing and methodology, laboratory reports, the results of our site assessment, conclusions and recommendations for remedial actions.

Should you have any questions or if we may be of further assistance, please do not hesitate to contact us.

Respectfully submitted,

TALON/LPE

Mike Stubblefield  
Project Manager

David J. Adkins  
District Manager

ENVIRONMENTAL CONSULTING  
ENGINEERING  
DRILLING  
CONSTRUCTION  
SPILL MANAGEMENT  
GENERAL CONTRACTING

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## **1.0 Introduction and Purpose**

### **1.1 Site Location and Setting**

The Marathon Water Transfer Line Release is located approximately fifteen (15) miles east of Artesia, New Mexico. The legal location for the site is Section 26, Township 17 South and Range 28 East in Eddy County, New Mexico. More Specifically the latitude and longitude for the release are 32.80082 North and -104.14941 West.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Simona-Bippus land complex soils with 0 to 5 percent slopes. The local surface and shallow geology consists of Quaternary Age sedimentary deposits which are comprised of alluvium and eolian sands which includes silty soils under lain by dense caliche layers. Drainage courses in this area are normally dry. The New Mexico State Engineer web site indicates the nearest ground water data to be in S34-T17S-R28E. The ground water in Section 34 is reported to be at an average depth of 53' below ground surface (bgs).

### **1.2 Site Ranking**

The ranking for this site is 10 based on the as following:

|                                |          |
|--------------------------------|----------|
| Depth to ground water          | 50'-100' |
| Wellhead Protection Area       | >1000'   |
| Distance to surface water body | >1000'   |

### **1.3 Incident Description**

On May 24, 2011 a below grade 2-inch diameter steel water transfer line was found to be leaking. The line was shut-in, repaired and placed back into service. This transfer line moves produced water from the Marathon 25, Marathon A25 and Marathon 26 batteries and crosses under US Highway 82 through a conduit pipe to the Quantum SWD. Approximately 190 barrels of produced water were released. A vacuum truck was used as an initial response to recover 130 barrels of produced water. The initial release is located in Unit M, Section 26, Township 17 South and Range 28 East, just north of Highway 82 and measures approximately 10-feet wide by 30-feet in length. The discharged fluids then traveled eastward along the north side of US Highway 82 in the right of way encompassing an area approximately 6-10 feet wide by 239-feet long.

The released fluids also traveled though the conduit running southward under US Highway 82 and exited in a second flow path measuring approximately 80-feet wide and narrowing down to 4-feet wide by 544-feet long as shown on the attached Site Plan. This area and the conduit running under Highway 82 contain multiple fluid transfer lines operated by several oil companies in the area.

## **1.4 Purpose**

The objective of this contamination assessment is to provide Lime Rock with a comprehensive delineation of the impacts resulting from this release, and to propose a cost-effective remediation plan. Background samples were also obtained in order to separate the current discharge from potential influences related to historical releases in the area.

A Site Plan illustrating the study area is attached hereto.

## **2.0 FIELD INVESTIGATIONS**

On June 3 and June 6, 2011 Talon/LPE (Talon) mobilized personnel were on the site to begin the assessment and soil sampling for the construction of a work plan. Utilizing a backhoe, grab soil samples were collected from the impacted areas of the release. The soil samples labeled S-1 were collected from the initial release area. Soil sample locations S-2 and S-3 were collected in the right of way adjacent to the north side of US Highway 82. Soil samples from sampling point S-4 were collected from the impacted area near the conduit exit immediately south of US Highway 82. Soil samples S-5 to S-10 were collected from the flow path located south of US highway 82. Sampling locations are shown on the Site Plan.

On June 9, 2011 Talon returned to the Lime Rock Marathon release site to collect additional soil samples utilizing a split spoon auger rig to obtain vertical delineation for chlorides at sample location S-1. Due to the over head power lines in the area, Talon could not safely raise the drill rig's mast to continue the subsurface investigation and collect additional soil samples at greater depths for the delineation of chlorides from the initial release area.

Consequently, the drill rig moved to the impacted area on the south side of US Highway 82. A bore hole was then advanced into the second flow path running eastward from the conduit located south of US Highway 82. The boring (B-1) was located 180-feet east of the conduit between the test trench sampling locations S-7 and S-8. The sampling location is shown on the site plan.

All soil samples were collected by Talon personnel wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were analyzed for total chlorides per laboratory test method SM4500Cl-B. One sample obtained at location S-4, was also tested for Total Petroleum Hydrocarbons (TPH) using EPA Method 8015M Volatile Organics (BTEX) per EPA Method 8021B. The complete laboratory report is attached as Appendix I.

### 3.0 ANALYTICAL RESULTS

Analytical reports received from Cardinal Laboratories are summarized below:

#### 3.1 Laboratory reports June 20, 2011

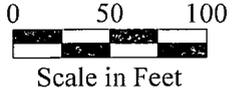
#### Sample Locations and Results for Lime Rock Marathon Release

| <b>S-1</b> |           | <b>S-2</b> |           | <b>S-3</b>  |            | <b>S-4</b> |           | <b>S-5</b>  |           |
|------------|-----------|------------|-----------|-------------|------------|------------|-----------|-------------|-----------|
| Feet       | Chlorides | Feet       | Chlorides | Feet        | Chlorides  | Feet       | Chlorides | Feet        | Chlorides |
| 0'         | 13000     | 0'         | 6400      | 0'          | 10600      | 0'         | 15600     | 0'          | 38400     |
| 2'         | 10000     | 2'         | 9800      | 2'          | 352        | 2'         | 8600      | 2'          | 4400      |
| 4'         | 16800     | 4'         | 9400      | 4'          | 48         | 4'         | 2920      | *           |           |
| 6'         | 18000     | 6'         | 208       | 6'          | 192        | 6'         | 624       |             |           |
| 8'         | 16000     | 8'         | 48        | 8'          | 320        | 8'         | 640       |             |           |
| 10'        | 14200     |            |           |             |            | 10'        | 432       |             |           |
|            |           |            |           |             |            |            |           |             |           |
| <b>S-6</b> |           | <b>S-7</b> |           | <b>S-8</b>  |            | <b>S-9</b> |           | <b>S-10</b> |           |
| Feet       | Chlorides | Feet       | Chlorides | Feet        | Chlorides  | Feet       | Chlorides | Feet        | Chlorides |
| 0'         | 21200     | 0'         | 38800     | 0'          | 20000      | 0'         | 176       | 0'          | 272       |
| 2'         | 3280      | 2'         | 5680      | 2'          | 10200      | 2'         | 6560      | 2'          | 192       |
| *          |           | *          |           | *           |            | 4'         | 7360      | 4'          | 48        |
|            |           |            |           |             |            | 6'         | 112       | 6'          | 16        |
|            |           |            |           |             |            | 8'         | 112       |             |           |
|            |           |            |           |             |            | 10'        | 48        |             |           |
|            |           |            |           |             |            |            |           |             |           |
| <b>B-1</b> |           | <b>S-4</b> |           |             |            |            |           |             |           |
| Feet       | Chlorides | Feet       | Chlorides | BTEX(mg/kg) | TPH(mg/kg) |            |           |             |           |
| 0'         | 25600     | 0.5'       | 25600     | <50         | 53400      |            |           |             |           |
| 1'         | 10600     |            |           |             |            |            |           |             |           |
| 5'         | 144       |            |           |             |            |            |           |             |           |
| 10'        | 32        |            |           |             |            |            |           |             |           |

\*Refusal encountered with backhoe.

#### 3.2 Laboratory Report June 29, 2011

Background soil samples (BG) for chlorides were taken on June 23, 2011. The results were BG-1 at land surface 2440 mg/kg, and BG-2 at land surface results were 41600 mg/kg. All sample locations are illustrated on the attached Site Plan.



County Road 209

Initial Point of Release  
Flow Lines  
Conduit

S-1  
S-2

S-3

US Highway 82

S-9

S-10

S-4

S-5

S-6

S-7

B-1

S-8

BG-001

BG-002

Legend

- ◇ - Sample Locations
- - Release Area



Date: 06/22/2011

Scale: 1" = 100'

Drawn By: TJS

Lime Rock Resources - Marathon Release  
US Highway 82 & County Road 209  
Artesia, New Mexico  
Figure 1 - Site Plan

#### 4.0 SUMMARY AND CONCLUSIONS

- Ground water in the project vicinity is greater than 50-feet below land surface per the New Mexico State Engineer Database.
- The chloride remediation standard is considered to be 1,000 mg/kg.
- The vertical chloride impacts in the initial release area on the north side of US Highway 82 could not be defined due to safety factors involving the drill rig mast and existing overhead power lines.
- Visual observations made during this investigation indicate the presence of historical hydrocarbon impacts in the initial release area (S-1). A number of flow lines operated by multiple companies are located in this area. All these flow lines utilize the utility conduit running north/south beneath Highway 82.
- The upgradient/back ground soil samples collected for this investigation revealed high chloride levels in the area south of US Highway 82. There are multiple flow lines and old drilling pits belonging to other companies in this area.
- At soil sample location S-9, chlorides were detected at 176 mg/kg at land surface in the flow path from this release. At 2-feet deep in this sample location, chloride levels were found to be 6,000 mg/kg. This may indicate evidence of historical releases from the flow lines running east/west along the south side of Highway 82.
- A hard rock barrier was encountered at 2-feet below land surface south of US Highway 82. A backhoe was not able to excavate below the rock barrier during the initial sampling activities.
- The recent hydrocarbon impacts from this release were visually observed to 2-feet deep at test pit sample locations S-1 and S-4 only.

## 5.0 PROPOSED REMEDIAL ACTIONS

- The initial release area located north of US Highway 82 at sample location S-1 will be excavated to depth of 4-feet below ground surface. A 20 mil liner will be installed into the excavated area and the excavation will be backfilled back to grade using new material transported from a local borrow pit.
- The impacted area located south of Highway 82 near the conduit will also be excavated 4-feet below ground surface and a 20 mil liner will be installed into the excavated area. The excavated area will be backfilled back to grade using new material transported from a local borrow pit.
- Due to public highway and worker safety concerns, Lime Rock Resources respectfully request that no remediation activities be required on the impacted area located on the right of way along the north side US Highway 82.
- The impacted soil from the flow path located south of US Highway 82 will be excavated to a depth of 2-feet deep.
- No post excavation confirmation sampling is requested in this remediation plan because of the confirmed background presence of high levels of historic chlorides and multiple operators and flow lines in the area.
- A final report documenting all remedial actions will be provided to the NMOCD Artesia Office with Form C-141.

**SITE PLAN**

**APPENDIX I**  
**LAB REPORTS**

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

|                   |                   |                     |                |
|-------------------|-------------------|---------------------|----------------|
| Received:         | 06/14/2011        | Sampling Date:      | 06/03/2011     |
| Reported:         | 06/20/2011        | Sampling Type:      | Soil           |
| Project Name:     | MARATHON RELEASE  | Sampling Condition: | ** (See Notes) |
| Project Number:   | NONE GIVEN        | Sample Received By: | Jodi Henson    |
| Project Location: | SEC. 26-T17S-R28E |                     |                |

**Sample ID: S-1 0' (H101239-01)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 13000  | 16.0            | 06/16/2011 | ND              | 448 | 112        | 400           | 3.51 |           |  |

**Sample ID: S-1 2' (H101239-02)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 10000  | 16.0            | 06/16/2011 | ND              | 448 | 112        | 400           | 3.51 |           |  |

**Sample ID: S-1 4' (H101239-03)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 16800  | 16.0            | 06/16/2011 | ND              | 448 | 112        | 400           | 3.51 |           |  |

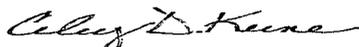
**Sample ID: S-1 6' (H101239-04)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 18000  | 16.0            | 06/16/2011 | ND              | 448 | 112        | 400           | 3.51 |           |  |

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

|                   |                   |                     |                |
|-------------------|-------------------|---------------------|----------------|
| Received:         | 06/14/2011        | Sampling Date:      | 06/03/2011     |
| Reported:         | 06/20/2011        | Sampling Type:      | Soil           |
| Project Name:     | MARATHON RELEASE  | Sampling Condition: | ** (See Notes) |
| Project Number:   | NONE GIVEN        | Sample Received By: | Jodi Henson    |
| Project Location: | SEC. 26-T17S-R28E |                     |                |

**Sample ID: S-1 8' (H101239-05)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 16000  | 16.0            | 06/16/2011 | ND              | 448 | 112        | 400           | 3.51 |           |  |

**Sample ID: S-1 10' (H101239-06)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 14200  | 16.0            | 06/16/2011 | ND              | 448 | 112        | 400           | 3.51 |           |  |

**Sample ID: S-2 0' (H101239-07)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 6400   | 16.0            | 06/16/2011 | ND              | 448 | 112        | 400           | 3.51 |           |  |

**Sample ID: S-2 2' (H101239-08)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 9800   | 16.0            | 06/16/2011 | ND              | 448 | 112        | 400           | 3.51 |           |  |

**Sample ID: S-2 4' (H101239-09)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 9400   | 16.0            | 06/16/2011 | ND              | 448 | 112        | 400           | 3.51 |           |  |

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

|                   |                   |                     |                |
|-------------------|-------------------|---------------------|----------------|
| Received:         | 06/14/2011        | Sampling Date:      | 06/03/2011     |
| Reported:         | 06/20/2011        | Sampling Type:      | Soil           |
| Project Name:     | MARATHON RELEASE  | Sampling Condition: | ** (See Notes) |
| Project Number:   | NONE GIVEN        | Sample Received By: | Jodi Henson    |
| Project Location: | SEC. 26-T17S-R28E |                     |                |

**Sample ID: S-2 6' (H101239-10)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 208    | 16.0            | 06/16/2011 | ND              | 448 | 112        | 400           | 3.51 |           |  |

**Sample ID: S-2 8' (H101239-11)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 48.0   | 16.0            | 06/16/2011 | ND              | 448 | 112        | 400           | 3.51 |           |  |

**Sample ID: S-3 0' (H101239-12)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 10600  | 16.0            | 06/16/2011 | ND              | 448 | 112        | 400           | 3.51 |           |  |

**Sample ID: S-3 2' (H101239-13)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 352    | 16.0            | 06/16/2011 | ND              | 448 | 112        | 400           | 3.51 |           |  |

**Sample ID: S-3 4' (H101239-14)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 48.0   | 16.0            | 06/16/2011 | ND              | 448 | 112        | 400           | 3.51 |           |  |

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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|                   |                   |                     |                |
|-------------------|-------------------|---------------------|----------------|
| Received:         | 06/14/2011        | Sampling Date:      | 06/03/2011     |
| Reported:         | 06/20/2011        | Sampling Type:      | Soil           |
| Project Name:     | MARATHON RELEASE  | Sampling Condition: | ** (See Notes) |
| Project Number:   | NONE GIVEN        | Sample Received By: | Jodi Henson    |
| Project Location: | SEC. 26-T17S-R28E |                     |                |

**Sample ID: S-3 6' (H101239-15)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 192    | 16.0            | 06/16/2011 | ND              | 448 | 112        | 400           | 3.51 |           |  |

**Sample ID: S-3 8' (H101239-16)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 320    | 16.0            | 06/17/2011 | ND              | 448 | 112        | 400           | 3.51 |           |  |

**Sample ID: S-4 0' (H101239-17)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 15600  | 16.0            | 06/17/2011 | ND              | 448 | 112        | 400           | 3.51 |           |  |

**Sample ID: S-4 2' (H101239-18)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 8600   | 16.0            | 06/17/2011 | ND              | 448 | 112        | 400           | 3.51 |           |  |

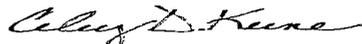
**Sample ID: S-4 4' (H101239-19)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 2920   | 16.0            | 06/17/2011 | ND              | 448 | 112        | 400           | 3.51 |           |  |

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

 Received: 06/14/2011  
 Reported: 06/20/2011  
 Project Name: MARATHON RELEASE  
 Project Number: NONE GIVEN  
 Project Location: SEC. 26-T17S-R28E

 Sampling Date: 06/03/2011  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: S-4 6' (H101239-20)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 624    | 16.0            | 06/17/2011 | ND              | 448 | 112        | 400           | 3.51 |           |

**Sample ID: S-4 8' (H101239-21)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 640    | 16.0            | 06/17/2011 | ND              | 432 | 108        | 400           | 3.77 |           |

**Sample ID: S-4 10' (H101239-22)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 432    | 16.0            | 06/17/2011 | ND              | 432 | 108        | 400           | 3.77 |           |

**Sample ID: S-5 0' (H101239-23)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 38400  | 16.0            | 06/17/2011 | ND              | 432 | 108        | 400           | 3.77 |           |

**Sample ID: S-5 2' (H101239-24)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 4400   | 16.0            | 06/17/2011 | ND              | 432 | 108        | 400           | 3.77 |           |

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

|                   |                   |                     |                |
|-------------------|-------------------|---------------------|----------------|
| Received:         | 06/14/2011        | Sampling Date:      | 06/06/2011     |
| Reported:         | 06/20/2011        | Sampling Type:      | Soil           |
| Project Name:     | MARATHON RELEASE  | Sampling Condition: | ** (See Notes) |
| Project Number:   | NONE GIVEN        | Sample Received By: | Jodi Henson    |
| Project Location: | SEC. 26-T17S-R28E |                     |                |

**Sample ID: S-6 0' (H101239-25)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 21200  | 16.0            | 06/17/2011 | ND              | 432 | 108        | 400           | 3.77 |           |

**Sample ID: S-6 2' (H101239-26)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 3280   | 16.0            | 06/17/2011 | ND              | 432 | 108        | 400           | 3.77 |           |

**Sample ID: S-7 0' (H101239-27)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 38800  | 16.0            | 06/17/2011 | ND              | 432 | 108        | 400           | 3.77 |           |

**Sample ID: S-7 2' (H101239-28)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 5680   | 16.0            | 06/17/2011 | ND              | 432 | 108        | 400           | 3.77 |           |

**Sample ID: S-8 0' (H101239-29)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 20000  | 16.0            | 06/17/2011 | ND              | 432 | 108        | 400           | 3.77 |           |

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

 Received: 06/14/2011  
 Reported: 06/20/2011  
 Project Name: MARATHON RELEASE  
 Project Number: NONE GIVEN  
 Project Location: SEC. 26-T17S-R28E

 Sampling Date: 06/06/2011  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: S-8 2' (H101239-30)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 10200  | 16.0            | 06/17/2011 | ND              | 432 | 108        | 400           | 3.77 |           |  |

**Sample ID: S-9 0' (H101239-31)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 176    | 16.0            | 06/17/2011 | ND              | 432 | 108        | 400           | 3.77 |           |  |

**Sample ID: S-9 2' (H101239-32)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 6560   | 16.0            | 06/17/2011 | ND              | 432 | 108        | 400           | 3.77 |           |  |

**Sample ID: S-9 4' (H101239-33)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 7360   | 16.0            | 06/17/2011 | ND              | 432 | 108        | 400           | 3.77 |           |  |

**Sample ID: S-9 6' (H101239-34)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 112    | 16.0            | 06/17/2011 | ND              | 432 | 108        | 400           | 3.77 |           |  |

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Celest D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

|                   |                   |                     |                |
|-------------------|-------------------|---------------------|----------------|
| Received:         | 06/14/2011        | Sampling Date:      | 06/06/2011     |
| Reported:         | 06/20/2011        | Sampling Type:      | Soil           |
| Project Name:     | MARATHON RELEASE  | Sampling Condition: | ** (See Notes) |
| Project Number:   | NONE GIVEN        | Sample Received By: | Jodi Henson    |
| Project Location: | SEC. 26-T17S-R28E |                     |                |

**Sample ID: S-9 8' (H101239-35)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 112    | 16.0            | 06/17/2011 | ND              | 432 | 108        | 400           | 3.77 |           |

**Sample ID: S-9 10' (H101239-36)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 06/17/2011 | ND              | 432 | 108        | 400           | 3.77 |           |

**Sample ID: S-10 0' (H101239-37)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 272    | 16.0            | 06/17/2011 | ND              | 432 | 108        | 400           | 3.77 |           |

**Sample ID: S-10 2' (H101239-38)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 192    | 16.0            | 06/17/2011 | ND              | 432 | 108        | 400           | 3.77 |           |

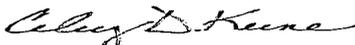
**Sample ID: S-10 4' (H101239-39)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 06/17/2011 | ND              | 432 | 108        | 400           | 3.77 |           |

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

|                   |                   |                     |                |
|-------------------|-------------------|---------------------|----------------|
| Received:         | 06/14/2011        | Sampling Date:      | 06/06/2011     |
| Reported:         | 06/20/2011        | Sampling Type:      | Soil           |
| Project Name:     | MARATHON RELEASE  | Sampling Condition: | ** (See Notes) |
| Project Number:   | NONE GIVEN        | Sample Received By: | Jodi Henson    |
| Project Location: | SEC. 26-T17S-R28E |                     |                |

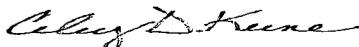
**Sample ID: S-10 6' (H101239-40)**

| Chloride, SM4500Cl-B | mg/kg  | Analyzed By: HM |            |              |     |            |               |      |           |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 16.0   | 16.0            | 06/17/2011 | ND           | 432 | 108        | 400           | 3.77 |           |

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

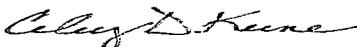
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager











June 20, 2011

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MARATHON

Enclosed are the results of analyses for samples received by the laboratory on 06/14/11 16:00.

Cardinal Laboratories is accredited through Texas NELAP for:

|                    |  |
|--------------------|--|
| Method SW-846 8021 | Benzene, Toluene, Ethyl Benzene, and Total Xylenes |
| Method SW-846 8260 | Benzene, Toluene, Ethyl Benzene, and Total Xylenes |
| Method TX 1005     | Total Petroleum Hydrocarbons                       |

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

|                  |                              |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5)     |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V2, V3)      |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

June 20, 2011

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MARATHON RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 06/14/11 16:00.

Cardinal Laboratories is accredited through Texas NELAP for:

|                    |  |
|--------------------|--|
| Method SW-846 8021 | Benzene, Toluene, Ethyl Benzene, and Total Xylenes |
| Method SW-846 8260 | Benzene, Toluene, Ethyl Benzene, and Total Xylenes |
| Method TX 1005     | Total Petroleum Hydrocarbons                       |

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

|                  |                              |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5)     |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V2, V3)      |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, prominent initial "C".

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

|                   |              |                     |               |
|-------------------|--------------|---------------------|---------------|
| Received:         | 06/14/2011   | Sampling Date:      | 06/09/2011    |
| Reported:         | 06/20/2011   | Sampling Type:      | Soil          |
| Project Name:     | MARATHON     | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN   | Sample Received By: | Jodi Henson   |
| Project Location: | 26-T17S-R28E |                     |               |

**Sample ID: B-1 0' (H101234-01)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 25600  | 16.0            | 06/16/2011 | ND              | 448 | 112        | 400           | 0.00 |           |  |

**Sample ID: B-1 1' (H101234-02)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 10600  | 16.0            | 06/16/2011 | ND              | 448 | 112        | 400           | 0.00 |           |  |

**Sample ID: B-1 5' (H101234-03)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 144    | 16.0            | 06/16/2011 | ND              | 448 | 112        | 400           | 0.00 |           |  |

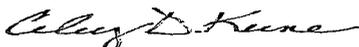
**Sample ID: B-1 10' (H101234-04)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 32.0   | 16.0            | 06/16/2011 | ND              | 448 | 112        | 400           | 0.00 |           |  |

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

|                   |              |                     |               |
|-------------------|--------------|---------------------|---------------|
| Received:         | 06/14/2011   | Sampling Date:      | 06/09/2011    |
| Reported:         | 06/20/2011   | Sampling Type:      | Soil          |
| Project Name:     | MARATHON     | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN   | Sample Received By: | Jodi Henson   |
| Project Location: | 26-T17S-R28E |                     |               |

**Sample ID: S-4 0.5' (H101234-05)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 7920   | 16.0            | 06/16/2011 | ND              | 448 | 112        | 400           | 0.00 |           |  |

**Sample ID: S-4 0.5' (H101234-06)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: CMS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.200 | 0.200           | 06/16/2011 | ND               | 1.92 | 96.1       | 2.00          | 2.32 |           |  |
| Toluene*       | 0.752  | 0.200           | 06/16/2011 | ND               | 2.04 | 102        | 2.00          | 1.57 |           |  |
| Ethylbenzene*  | 0.521  | 0.200           | 06/16/2011 | ND               | 2.03 | 102        | 2.00          | 2.24 |           |  |
| Total Xylenes* | 4.64   | 0.600           | 06/16/2011 | ND               | 5.99 | 99.9       | 6.00          | 1.72 |           |  |

Surrogate: 4-Bromofluorobenzene (PIL) 113 % 70-130

| TPH 8015M    |        | mg/kg           |            | Analyzed By: CK |     |            |               |      |           |  | S-04 |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |      |
| GRO C6-C10   | <100   | 100             | 06/18/2011 | ND              | 199 | 99.3       | 200           | 3.48 |           |  |      |
| DRO >C10-C28 | 53400  | 100             | 06/18/2011 | ND              | 189 | 94.7       | 200           | 3.43 |           |  |      |

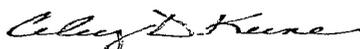
Surrogate: 1-Chlorooctane 94.8 % 70-130

Surrogate: 1-Chlorooctadecane 177 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

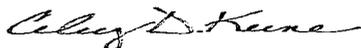
- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND             Analyte NOT DETECTED at or above the reporting limit
- RPD            Relative Percent Difference
- \*\*              Samples not received at proper temperature of 6°C or below.
- \*\*\*             Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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---

Celey D. Keene, Lab Director/Quality Manager



**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

101 East Marland, Hobbs, NM 88240  
 (575) 393-2326 FAX (575) 393-2476

|   |             |                                |             |   |  |        |        |   |  |  |  |  |  |  |  |          |          |  |  |  |  |  |  |  |  |  |  |
|---|-------------|--------------------------------|-------------|---|--|--------|--------|---|--|--|--|--|--|--|--|----------|----------|--|--|--|--|--|--|--|--|--|--|
| Company Name: <b>Talon / LPE</b>                        |             | <b>BILL TO</b>                 |             | <b>ANALYSIS REQUEST</b>   |  |        |        |   |  |  |  |  |  |  |  |          |          |  |  |  |  |  |  |  |  |  |  |
| Project Manager: <b>Mike Stubblefield</b>               |             | P.O. #:                        |             | <i>Total Chromium</i><br><i>BETX 826DB</i><br><i>TPH 8015 M</i> |  |        |        |   |  |  |  |  |  |  |  |          |          |  |  |  |  |  |  |  |  |  |  |
| Address: <b>408 W. Texas Ave.</b>                       |             | Company: <b>Talon / LPE</b>    |             |   |  |        |        |   |  |  |  |  |  |  |  |          |          |  |  |  |  |  |  |  |  |  |  |
| City: <b>Artesia</b> State: <b>NM</b> Zip: <b>88210</b> |             | Attn:                          |             |   |  |        |        |   |  |  |  |  |  |  |  |          |          |  |  |  |  |  |  |  |  |  |  |
| Phone #: <b>505-441-7254</b> Fax #: <b>505-746-8905</b> |             | Address:                       |             |   |  |        |        |   |  |  |  |  |  |  |  |          |          |  |  |  |  |  |  |  |  |  |  |
| Project #: _____ Project Owner: <b>Kevin Beck</b>       |             | City:                          |             |   |  |        |        |   |  |  |  |  |  |  |  |          |          |  |  |  |  |  |  |  |  |  |  |
| Project Name: <b>Maintenance</b>                        |             | State: _____ Zip: _____        |             |   |  |        |        |   |  |  |  |  |  |  |  |          |          |  |  |  |  |  |  |  |  |  |  |
| Project Location: <b>26-TPH-R2SE</b>                    |             | Phone #: _____                 |             |   |  |        |        |   |  |  |  |  |  |  |  |          |          |  |  |  |  |  |  |  |  |  |  |
| Sampler Name: <b>Mike Stubblefield</b>                  |             | Fax #: _____                   |             |   |  |        |        |   |  |  |  |  |  |  |  |          |          |  |  |  |  |  |  |  |  |  |  |
| FOR LAB USE ONLY  |             |                                |             |   |  |        |        |   |  |  |  |  |  |  |  |          |          |  |  |  |  |  |  |  |  |  |  |
| Lab I.D.  | Sample I.D. | (GRAB OR C/COMP. # CONTAINERS) | MATRIX      |   |  |        |        |   |  |  |  |  |  |  |  | PRESERV. | SAMPLING |  |  |  |  |  |  |  |  |  |  |
|   |             |                                | GROUNDWATER |   |  | DATE   | TIME   |   |  |  |  |  |  |  |  |          |          |  |  |  |  |  |  |  |  |  |  |
|   |             |                                | WASTEWATER  |   |  |        |        |   |  |  |  |  |  |  |  |          |          |  |  |  |  |  |  |  |  |  |  |
|   |             |                                | SOIL        |   |  |        |        |   |  |  |  |  |  |  |  |          |          |  |  |  |  |  |  |  |  |  |  |
|   |             |                                | OIL         |   |  |        |        |   |  |  |  |  |  |  |  |          |          |  |  |  |  |  |  |  |  |  |  |
|   |             |                                | SLUDGE      |   |  |        |        |   |  |  |  |  |  |  |  |          |          |  |  |  |  |  |  |  |  |  |  |
|   |             |                                | OTHER:      |   |  |        |        |   |  |  |  |  |  |  |  |          |          |  |  |  |  |  |  |  |  |  |  |
|   |             |                                | ACID/BASE:  |   |  |        |        |   |  |  |  |  |  |  |  |          |          |  |  |  |  |  |  |  |  |  |  |
|   |             |                                | ICE/COOL    |   |  |        |        |   |  |  |  |  |  |  |  |          |          |  |  |  |  |  |  |  |  |  |  |
|   |             |                                | OTHER:      |   |  |        |        |   |  |  |  |  |  |  |  |          |          |  |  |  |  |  |  |  |  |  |  |
| <b>H101234</b>  |             |                                |             |   |  |        |        |   |  |  |  |  |  |  |  |          |          |  |  |  |  |  |  |  |  |  |  |
| -1  | B-1 0'      | G                              | /           |   |  | 6-9-11 | 9:50a  | / |  |  |  |  |  |  |  |          |          |  |  |  |  |  |  |  |  |  |  |
| 2   | B-1 1'      | G                              | /           |   |  | 6-9-11 | 9:55a  | / |  |  |  |  |  |  |  |          |          |  |  |  |  |  |  |  |  |  |  |
| 3   | B-1 5'      | G                              | /           |   |  | 6-9-11 | 10:16a | / |  |  |  |  |  |  |  |          |          |  |  |  |  |  |  |  |  |  |  |
| 4   | B-1 10'     | G                              | /           |   |  | 6-9-11 | 10:34a | / |  |  |  |  |  |  |  |          |          |  |  |  |  |  |  |  |  |  |  |
| 5   | S-4 0.5'    | G                              | /           |   |  | 6-9-11 | 10:58a | / |  |  |  |  |  |  |  |          |          |  |  |  |  |  |  |  |  |  |  |
| 6   | S-4 0.5'    | G                              | /           |   |  | 6-9-11 | 10:58a | / |  |  |  |  |  |  |  |          |          |  |  |  |  |  |  |  |  |  |  |

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|   |   |                                 |  |                |
|---|---|---------------------------------|--|----------------|
| Relinquished By: <b>Mike Stubblefield</b> | Date: <b>6/19/11</b>  | Received By: <b>John Red</b>    | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | Add'l Phone #: |
|   | Time: <b>2:10</b>   |                                 | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No   | Add'l Fax #:   |
| Relinquished By:                          | Date:   | Received By: <b>Yodi Newson</b> | REMARKS:   |                |
|   | Time:   |                                 |  |                |
| Delivered By: (Circle One)                | Sample Condition  | CHECKED BY: <b>[Signature]</b>  |  |                |
| Sampler - UPS - Bus - Other:              | Cool - Intact   | (Initials)                      |  |                |
|   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                                 |  |                |
|   | <input type="checkbox"/> No <input type="checkbox"/> No             |                                 |  |                |

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#26



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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June 29, 2011

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MARATHON RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 06/27/11 11:30.

Cardinal Laboratories is accredited through Texas NELAP for:

|                    |  |
|--------------------|--|
| Method SW-846 8021 | Benzene, Toluene, Ethyl Benzene, and Total Xylenes |
| Method SW-846 8260 | Benzene, Toluene, Ethyl Benzene, and Total Xylenes |
| Method TX 1005     | Total Petroleum Hydrocarbons                       |

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

|                  |                              |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5)     |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V2, V3)      |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

|                   |                   |                     |                |
|-------------------|-------------------|---------------------|----------------|
| Received:         | 06/27/2011        | Sampling Date:      | 06/23/2011     |
| Reported:         | 06/29/2011        | Sampling Type:      | Soil           |
| Project Name:     | MARATHON RELEASE  | Sampling Condition: | ** (See Notes) |
| Project Number:   | 701307.024.01     | Sample Received By: | Jodi Henson    |
| Project Location: | SEC. 26-T17S-R28E |                     |                |

**Sample ID: BG - 1 (H101322-01)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 2440   | 16.0            | 06/28/2011 | ND              | 448 | 112        | 400           | 3.64 |           |

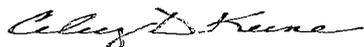
**Sample ID: BG - 2 (H101322-02)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 41600  | 16.0            | 06/28/2011 | ND              | 448 | 112        | 400           | 3.64 |           |

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

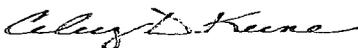
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**CARDINAL LABORATORIES**  
 101 East Marland, Hobbs, NM 88240  
 (505) 393-2326 FAX (505) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

|   |                |                            |              |                         |     |        |        |            |          |        |                |              |  |  |  |
|---|----------------|----------------------------|--------------|-------------------------|-----|--------|--------|------------|----------|--------|----------------|--------------|--|--|--|
| Company Name: <i>Delcom LPE</i>                                 |                | <b>BILL TO</b>             |              | <b>ANALYSIS REQUEST</b> |     |        |        |            |          |        |                |              |  |  |  |
| Project Manager: <i>Mike Stubblefield</i>                       |                | P.O. #:                    |              | <i>total Chlorides</i>  |     |        |        |            |          |        |                |              |  |  |  |
| Address: <i>408 W. Japan</i>                                    |                | Company: <i>Delcom/LPE</i> |              |                         |     |        |        |            |          |        |                |              |  |  |  |
| City: <i>Altoona</i> State: <i>NM</i> Zip: <i>88210</i>         |                | Attn:                      |              |                         |     |        |        |            |          |        |                |              |  |  |  |
| Phone #: <i>575-746-8968</i> Fax #: <i>575-746-8905</i>         |                | Address:                   |              |                         |     |        |        |            |          |        |                |              |  |  |  |
| Project #: <i>771307.024.01</i> Project Owner: <i>Lime Rock</i> |                | City:                      |              |                         |     |        |        |            |          |        |                |              |  |  |  |
| Project Name: <i>Marathon Release</i>                           |                | State: Zip:                |              |                         |     |        |        |            |          |        |                |              |  |  |  |
| Project Location: <i>26-7175 R28E</i>                           |                | Phone #:                   |              |                         |     |        |        |            |          |        |                |              |  |  |  |
| Sampler Name: <i>Mike Stubblefield</i>                          |                | Fax #:                     |              |                         |     |        |        |            |          |        |                |              |  |  |  |
| FOR LAB USE ONLY  |                |                            |              |                         |     |        |        |            |          |        |                |              |  |  |  |
| Lab I.D.  | Sample I.D.    | (GRAB OR C/OMP.            | # CONTAINERS | MATRIX                  |     |        |        |            | PRESERV. |        | SAMPLING       |              |  |  |  |
|   |                | GROUNDWATER                | WASTEWATER   | SOIL                    | OIL | SLUDGE | OTHER: | ACID/BASE: | ICE/COOL | OTHER: | DATE           | TIME         |  |  |  |
| <i>H101377</i>  |                |                            |              |                         |     |        |        |            |          |        |                |              |  |  |  |
|   | <i>-1 BG-1</i> |                            |              |                         |     |        |        |            |          |        | <i>6/23/11</i> | <i>5:25p</i> |  |  |  |
|   | <i>-2 BG-2</i> |                            |              |                         |     |        |        |            |          |        | <i>6/23/11</i> | <i>5:28p</i> |  |  |  |

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|                                       |                              |  |  |                |
|---------------------------------------|------------------------------|--|--|----------------|
| Relinquished By: <i>Hubert Wilson</i> | Date: <i>6/27/11</i>         | Received By: <i>John Mc...</i>   | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | Add'l Phone #: |
|                                       | Time: <i>9:20</i>            |  | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No   | Add'l Fax #:   |
| Relinquished By:                      | Date:                        | Received By: <i>Jodi Newson</i>  | REMARKS:   |                |
|                                       | Time:                        |  |  |                |
| Delivered By: (Circle One)            | Sampler - UPS - Bus - Other: | Sample Condition<br>Cool Intact<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | CHECKED BY: <i>(initials)</i>  |                |

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476  
 #210

**APPENDIX II**  
**INITIAL C-141 FORM**

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

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

Form C-141  
Revised October 10, 2003  
Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

|                 |                                    |               |                     |
|-----------------|------------------------------------|---------------|---------------------|
| Name of Company | Lime Rock Resources                | Contact       | Michael Barrett     |
| Address         | PO Box 2147 Roswell, NM 88202-2147 | Telephone No. | 575-623-8424        |
| Facility Name   | Marathon Water Transfer Line       | Facility Type | Produced Water Line |
| Surface Owner   | C.O.G. ?                           | Mineral Owner | State               |
|                 |                                    | Lease No.     |                     |

**LOCATION OF RELEASE**

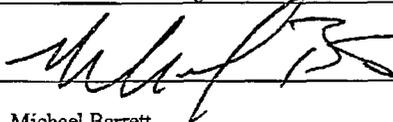
| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| SW ¼        | 26      | 17 S     | 28 E  | 330'          | FSL              | 1815'         | FWL            | Eddy   |

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

**NATURE OF RELEASE**

|  |   |   |  |                            |          |
|--|---|---|--|----------------------------|----------|
| Type of Release  | Produced Water  | Volume of Release                         | 190 bbls   | Volume Recovered           | 130 bbls |
| Source of Release  | Hole in water line  | Date and Hour of Occurrence               | 5/24/11  | Date and Hour of Discovery | 5/24/11  |
| Was Immediate Notice Given?  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom?                          | 5/25/11 OCD Emergency Extension<br>5/26/11 Mike Bratcher |                            |          |
| By Whom?   | Michael Barrett   | Date and Hour                             | 5/25/11  |                            |          |
| Was a Watercourse Reached?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                       | If YES, Volume Impacting the Watercourse. | N/A  |                            |          |
| If a Watercourse was Impacted, Describe Fully.*<br>N/A   |   |   |  |                            |          |
| Describe Cause of Problem and Remedial Action Taken.*<br>Hole in 2" steel water line. Isolated line, clamped hole. P/U standing fluid.   |   |   |  |                            |          |
| Describe Area Affected and Cleanup Action Taken.*<br>Hot & dry. Leak is @ road crossing @ CR 209 & US 82. Area is 500 +/- long & averages 3' wide. Preparing work & remediation plan. Will sample 5/31/11. |   |   |  |                            |          |

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:                                     |  |  |                  | <b>OIL CONSERVATION DIVISION</b>             |  |
| Printed Name: Michael Barrett                  | Approved by District Supervisor:  |  |                  |  |  |
| Title: Production Supervisor                   | Approval Date:  |  | Expiration Date: |  |  |
| E-mail Address: mbarrett@limerockresources.com | Conditions of Approval:   |  |                  | Attached <input checked="" type="checkbox"/> |  |
| Date: 5/27/11                                  | Phone: 575-623-8424   |  |                  |  |  |

\* Attach Additional Sheets If Necessary