



# AE Order Number Banner

## Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



**App Number:** pKJ1605632985

**1RP - 4191**

**LEGACY RESERVES OPERATING, LP**

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 - Legacy Reserves Operating, LP | Contact: Berry Johnson       |
| Address - PO Box 10848, Midland, TX 79702-7848  | Telephone No. : 432-689-5200 |
| Facility Name - State GA #6 /                   | Facility Type: Oil well      |

|                |                |                              |
|----------------|----------------|------------------------------|
| Surface Owner: | Mineral Owner: | Lease No. API # 30-025-03687 |
|----------------|----------------|------------------------------|

LOCATION OF RELEASE

|                  |               |                 |              |                       |                           |                       |                        |               |
|------------------|---------------|-----------------|--------------|-----------------------|---------------------------|-----------------------|------------------------|---------------|
| Unit Letter<br>D | Section<br>16 | Township<br>15S | Range<br>36E | Feet from the<br>660' | North/South Line<br>North | Feet from the<br>990' | East/West Line<br>West | County<br>Lea |
|------------------|---------------|-----------------|--------------|-----------------------|---------------------------|-----------------------|------------------------|---------------|

Latitude 33.02298 N Longitude -103.31441 W

NATURE OF RELEASE

|  |   |   |
|--|---|---|
| Type of Release: Produced Fluids   | Volume of Release 90 bbls                 | Volume Recovered -0- bbls               |
| Source of Release : Gun Barrel failure   | Date and Hour of Occurrence<br>7/17/2012  | Date and Hour of Discovery<br>7/17/2012 |
| Was Immediate Notice Given?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom?                          |   |
| By Whom?   | Date and Hour                             |   |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | If YES, Volume Impacting the Watercourse. |   |

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

A nipple on the gun barrel eroded and blew out of the stock tank causing a release of 90 barrels of produced fluids.

Describe Area Affected and Cleanup Action Taken.\* The affected area was inside the bermed battery and flowed south down lease road, the release then pooled onto the State GA#6 location. There was a small amount of fluids that flowed off location into pasture, 25'x25'. The impacted areas on the lease road and location were immediately scraped. The contaminated soil was stockpiled on location. Talon/LPE has been contracted to complete site assessment and work plan activities.

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 federal, state, or local laws and/or regulations.

|                                     |   |                                   |
|-------------------------------------|---|-----------------------------------|
| Signature: Sharon Bowersock         | APPROVED                                  |                                   |
| Printed Name: Sharon Bowersock      |   |                                   |
| Title: Eng/Regulatory Tech          | Approval Date: 2/25/16   Expiration Date: |                                   |
| E-mail Address:                     | Conditions of Approval:                   | Attached <input type="checkbox"/> |
| Date: 7/18/2012 Phone: 432-689-5200 |   |                                   |

\* Attach Additional Sheets If Necessary

491





October 30, 2012

**HOBBS OCD**

**OCT 31 2012**

**RECEIVED**

Mr. Geoffrey Leking  
**NMOCD District I**  
1625 N. French Dr.  
Hobbs, NM 88240

**Subject: Soil Assessment and Remediation Work Plan**  
Legacy Reserves Operating, LP  
State GA No. 1  
Tank Battery Release  
API # 30-025-03682

**AMARILLO**  
921 North Bivins  
Amarillo, Texas 79107  
Phone 806.467.0607  
Fax 806.467.0622

**ARTESIA**  
408 West Texas Ave.  
Artesia, New Mexico 88210  
Phone 575.746.8768  
Fax 575.746.8905

**AUSTIN**  
911 West Anderson Lane  
Suite 202  
Austin, Texas 78757  
Phone 512.989.3428  
Fax 512.989.3487

**HOBBS**  
318 East Taylor Street  
Hobbs, New Mexico 88240  
Phone 575.393.4261  
Fax 575.393.4658

**MIDLAND**  
2901 State Hwy 349  
Midland, Texas 79706  
Phone 432.522.2133  
Fax 432.522.2180

**SAN ANTONIO**  
11 Commercial Place  
Schertz, Texas 78154  
Phone 210.265.8025  
Fax 210.568.2191

**TULSA**  
525 South Main Street  
Suite 535  
Tulsa, Oklahoma 74103  
Phone 918.742.0871  
Fax 918.382.0232

ENVIRONMENTAL CONSULTING  
ENGINEERING  
DRILLING  
CONSTRUCTION  
SPILL MANAGEMENT  
GENERAL CONTRACTING

Dear Mr. Leking,

Legacy Reserves Operating, LP has contracted Talon/LPE (Talon) to perform soil assessment and remediation services for the State GA No. 6 referenced Tank Battery Release. Talon's site assessment, soil sampling results and proposed work plan to perform remediation activities consist of the following:

**Incident Date**

July 17, 2012

**Background Information**

The State GA No. 1 is located approximately seven (7) miles northeast of Lovington, New Mexico. The legal location for the site is Section 16, Township 15 South and Range 36 East in Lea County, New Mexico. More specifically, the latitude and longitude for the release are 33.019359 North and -103.3111749 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 Kimbrough-Lea land complex. The local surface and shallow geology, Quaternary and Tertiary Age sedimentary deposits, is comprised of calcareous-loamy alluvium and calcareous-loamy eolian sands which includes silty soils underlain by sedimentary rock and hard caliche. Drainage courses in this area are normally dry. The New Mexico State Engineer web site indicates the nearest ground water data to be in S16-T15S-R36E. The ground water in Section 8 is reported to be at depth of 68' below ground surface (bgs). The referenced groundwater data is presented in Appendix I.

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'  |

Toll Free: 866.742.0742  
[www.talonlpe.com](http://www.talonlpe.com)

### **Incident Description**

On July 17, 2011, the nipple on the gun barrel eroded causing a release of 90 barrels of produced fluids. The gun barrel was taken out of service. No fluids were recovered. The impacted area was inside the bermed battery and flowed south along the lease road. The release then pooled onto the State GA #1 location. A small amount of fluids measuring approximately 25-feet long by 25-wide also flowed off the lease road into the pasture. The impacted areas on the lease road and location were immediately scraped and placed on plastic on the location. A site plan is attached.

### **Sampling Activities**

On July 17, 2012 Talon mobilized personnel to begin soil sampling for the construction of a work plan. Grab soil samples were collected utilizing a hand auger from the surface of the impacted areas.

On August 21, 2011 Talon returned to the release site to collect additional soil samples utilizing a drill rig to obtain vertical delineation samples. Grab samples were collected to a depth of 10 feet below land surface.

The soil samples were collected by Talon personnel wearing clean nitrile gloves. The samples were placed into a laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M, and volatile organics (BTEX) using EPA Method 8021B. The chlorides were analyzed per SM4500CLB. The complete laboratory reports are attached as Appendix II.

### **Analytical Results**

Analytical results received from Cardinal Laboratories are summarized below:

July 24, 2012

| <u>Sample</u> | <u>Depth</u> | <u>BTEX</u> | <u>Chlorides</u> | <u>TPH (mg/kg)</u> |
|---------------|--------------|-------------|------------------|--------------------|
| S-1           | 0'           | 100.62      | 3200             | 6850               |
|               | 1'           | 104.675     | 3000             | 2890               |
| S-2           | 0'           | 1.246       | 11600            | 609.9              |
|               | 0.5'         | <0.150      | 4960             | 24.8               |
| S-3           | 0'           | 0.293       | 21600            | <10                |
|               | 0.5'         | <0.150      | 3040             | <10                |



August 30, 2012

| <u>Sample</u> | <u>Depth</u> | <u>BTEX</u> | <u>Chlorides</u> | <u>TPH (mg/kg)</u> |
|---------------|--------------|-------------|------------------|--------------------|
| B-1           | 2'           | <0.150      | 1070             | <10                |
|               | 4'           | <0.150      | 1960             | <10                |
|               | 6'           | <0.150      | 528              | <10                |
|               | 8'           | <0.150      | 160              | <10                |
|               | 10'          | <0.150      | 64               | <10                |
| B-2           | 2'           | <0.150      | 416              | 10.9               |
|               | 4'           | <0.150      | 128              | <10                |
|               | 6'           | <0.150      | 160              | <10                |
|               | 8'           | <0.150      | 96               | <10                |
|               | 10'          | <0.150      | 32               | <10                |
| B-3           | 2'           | <0.150      | 1890             | 30.3               |
|               | 4'           | <0.150      | 256              | <10                |
|               | 6'           | <0.150      | 336              | <10                |
|               | 8'           | <0.150      | 160              | <10                |
|               | 10'          | <0.150      | 272              | <10                |

### **Summary**

- Ground water in the project vicinity is 68-feet below land surface according to the New Mexico State Engineers Database.
- Based on the depth to groundwater, it is unlikely that the impacts identified from this release will pose a threat to groundwater after proposed remediation activities are complete.

### **Proposed Remedial Actions**

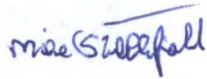
- The impacted soil at sample location B-1 along the lease road will be excavated to a depth of approximately 4-feet deep. The impacted soil in the vicinity of sample point B-3 will be excavated to a depth of approximately 3-feet deep. The impacted soil will be transported to an NMOCD approved solid waste disposal facility.
- The excavation depths will be continuously monitored by testing for chlorides using the field titration method.
- Confirmation samples will be collected from the bottom and sidewalls of the excavated areas and presented to the OCD for permission to complete excavation activities.

- The excavated area will be backfilled to grade using new material transported from a local borrow pit. The lease road will be repaired and the area will be contoured to match the surrounding location.
- A final report documenting all field activities and lab reports will be provided to the NMOCD Artesia Office including Form C-141.

If we can provide additional information or be of further assistance please contact our office at 575.746.8768.

Respectfully submitted,

TALON/LPE

A handwritten signature in blue ink that reads "Mike Stubblefield".

Mike Stubblefield  
Project Manager

A handwritten signature in blue ink, appearing to read "David J. Adkins".

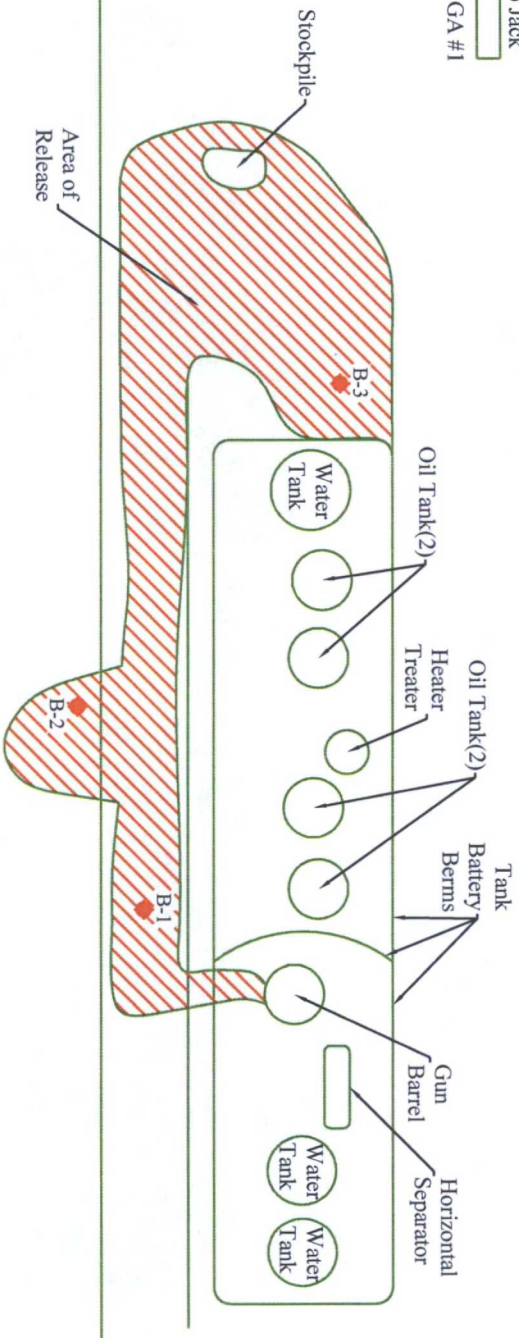
David J. Adkins  
District Manager



## **SITE MAP**



Pump Jack  
State GA #1



**Legend**  
 - Sample Location  
 - Release Area



Date: 10/05/2012  
 Scale: 1" = 60'  
 Drawn By: TJS

State GA Tank Battery  
 Legacy Reserves Operating, LP  
 Lea County, New Mexico  
 Figure 1 - Site Plan



**APPENDIX I**  
**GROUNDWATER DATA**  
**INITIAL C-141**



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the  
POD suffix indicates the  
POD has been replaced  
& no longer serves a  
water right file.)

(R=POD has  
been replaced,  
O=orphaned,  
C=the file is  
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

| POD Number              | POD<br>Code | Subbasin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X      | Y        | Distance | Depth<br>Well | Depth<br>Water | Water<br>Column |
|-------------------------|-------------|----------|--------|------|------|-----|-----|-----|-----|--------|----------|----------|---------------|----------------|-----------------|
| <a href="#">L 03275</a> | L           |          | LE     | 2    | 1    | 1   | 16  | 15S | 36E | 657429 | 3655188* | 200      | 110           | 68             | 42              |
| <a href="#">L 03126</a> | L           |          | LE     | 4    | 3    | 3   | 09  | 15S | 36E | 657423 | 3655390* | 280      | 90            | 65             | 25              |
| <a href="#">L 10983</a> | L           |          | LE     | 2    | 4    | 4   | 08  | 15S | 36E | 657019 | 3655584* | 448      | 184           |                |                 |

Average Depth to Water: **66 feet**

Minimum Depth: **65 feet**

Maximum Depth: **68 feet**

Record Count: 3

### UTMNAD83 Radius Search (in meters):

**Easting (X):** 657229

**Northing (Y):** 3655188

**Radius:** 500

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



**APPENDIX II**  
**LABORATORY RESULTS**



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

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July 24, 2012

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: STATE GA NO. 6

Enclosed are the results of analyses for samples received by the laboratory on 07/18/12 12:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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 (V1, 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



**Analytical Results For:**

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

Received: 07/18/2012  
Reported: 07/24/2012  
Project Name: STATE GA NO. 6  
Project Number: NONE GIVEN  
Project Location: SEC. 16 - T15S - R36 E

Sampling Date: 07/17/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S - 1 0' (H201640-01)**

| BTX 8021B      |        |                 | mg/kg      |              |      |            |               | Analyzed By: AP |           | S-06 |  |
|----------------|--------|-----------------|------------|--------------|------|------------|---------------|-----------------|-----------|------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD             | Qualifier |      |  |
| Benzene*       | 1.06   | 0.250           | 07/18/2012 | ND           | 1.91 | 95.7       | 2.00          | 0.781           |           |      |  |
| Toluene*       | 12.4   | 0.250           | 07/18/2012 | ND           | 1.94 | 97.1       | 2.00          | 2.18            |           |      |  |
| Ethylbenzene*  | 9.56   | 0.250           | 07/18/2012 | ND           | 1.98 | 99.0       | 2.00          | 1.91            |           |      |  |
| Total Xylenes* | 77.6   | 0.750           | 07/18/2012 | ND           | 5.99 | 99.9       | 6.00          | 2.45            |           |      |  |

Surrogate: 4-Bromofluorobenzene (PIE) 163 % 89.4-126

| Chloride, SM4500Cl-B |        |                 | mg/kg      |              |     |            |               | Analyzed By: HM |           |  |  |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|-----------------|-----------|--|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD             | Qualifier |  |  |
| Chloride             | 3200   | 16.0            | 07/19/2012 | ND           | 416 | 104        | 400           | 0.00            |           |  |  |

| TPH 8015M    |        |                 | mg/kg      |              |     |            |               | Analyzed By: AM |           |  |  |
|--------------|--------|-----------------|------------|--------------|-----|------------|---------------|-----------------|-----------|--|--|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD             | Qualifier |  |  |
| GRO C6-C10   | 1790   | 10.0            | 07/18/2012 | ND           | 166 | 83.1       | 200           | 7.23            |           |  |  |
| DRO >C10-C28 | 5060   | 10.0            | 07/18/2012 | ND           | 171 | 85.7       | 200           | 6.06            |           |  |  |


Surrogate: 1-Chlorooctane 118 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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: 07/18/2012  
 Reported: 07/24/2012  
 Project Name: STATE GA NO. 6  
 Project Number: NONE GIVEN  
 Project Location: SEC. 16 - T15S - R36 E

 Sampling Date: 07/17/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S - 1 1' BGS (H201640-02)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: AP |      |            |               | S-06  |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | 0.705  | 0.250           | 07/18/2012 | ND              | 1.91 | 95.7       | 2.00          | 0.781 |           |
| Toluene*       | 6.87   | 0.250           | 07/18/2012 | ND              | 1.94 | 97.1       | 2.00          | 2.18  |           |
| Ethylbenzene*  | 10.5   | 0.250           | 07/18/2012 | ND              | 1.98 | 99.0       | 2.00          | 1.91  |           |
| Total Xylenes* | 86.6   | 0.750           | 07/18/2012 | ND              | 5.99 | 99.9       | 6.00          | 2.45  |           |

Surrogate: 4-Bromofluorobenzene (PIC) 231 % 89.4-126

| Chloride, SM4500Cl-B |        | mg/kg           |                 | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|-----------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 3000   | 16.0            | 07/19/2012      | ND              | 416 | 104        | 400           | 0.00 |           |
| TPH 8015M            | mg/kg  |                 | Analyzed By: AM |                 |     |            |               |      | S-04      |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: AM |     |            |               | S-04 |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | 1170   | 10.0            | 07/18/2012 | ND              | 166 | 83.1       | 200           | 7.23 |           |
| DRO >C10-C28 | 1720   | 10.0            | 07/18/2012 | ND              | 171 | 85.7       | 200           | 6.06 |           |

Surrogate: 1-Chlorooctane 141 % 65.2-140

Surrogate: 1-Chlorooctadecane 116 % 63.6-154

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: 07/18/2012  
 Reported: 07/24/2012  
 Project Name: STATE GA NO. 6  
 Project Number: NONE GIVEN  
 Project Location: SEC. 16 - T15S - R36 E

 Sampling Date: 07/17/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S - 2 0' (H201640-03)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: AP |      |            |               |       |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 07/18/2012 | ND              | 1.91 | 95.7       | 2.00          | 0.781 |           |
| Toluene*       | 0.153  | 0.050           | 07/18/2012 | ND              | 1.94 | 97.1       | 2.00          | 2.18  |           |
| Ethylbenzene*  | 0.127  | 0.050           | 07/18/2012 | ND              | 1.98 | 99.0       | 2.00          | 1.91  |           |
| Total Xylenes* | 0.966  | 0.150           | 07/18/2012 | ND              | 5.99 | 99.9       | 6.00          | 2.45  |           |

Surrogate: 4-Bromofluorobenzene (PIC) 116 % 89.4-126

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 11600  | 16.0            | 07/19/2012 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: AM |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | 10.9   | 10.0            | 07/18/2012 | ND              | 166 | 83.1       | 200           | 7.23 |           |
| DRO >C10-C28 | 599    | 10.0            | 07/18/2012 | ND              | 171 | 85.7       | 200           | 6.06 |           |

Surrogate: 1-Chlorooctane 74.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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: 07/18/2012  
Reported: 07/24/2012  
Project Name: STATE GA NO. 6  
Project Number: NONE GIVEN  
Project Location: SEC. 16 - T15S - R36 E

Sampling Date: 07/17/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S - 2 0.5' BGS (H201640-04)**

| BTX 8021B      |        |                 | mg/kg      |              |      |            |               |       |           | Analyzed By: AP |  |
|----------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|-----------------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |                 |  |
| Benzene*       | <0.050 | 0.050           | 07/18/2012 | ND           | 1.91 | 95.7       | 2.00          | 0.781 |           |                 |  |
| Toluene*       | <0.050 | 0.050           | 07/18/2012 | ND           | 1.94 | 97.1       | 2.00          | 2.18  |           |                 |  |
| Ethylbenzene*  | <0.050 | 0.050           | 07/18/2012 | ND           | 1.98 | 99.0       | 2.00          | 1.91  |           |                 |  |
| Total Xylenes* | <0.150 | 0.150           | 07/18/2012 | ND           | 5.99 | 99.9       | 6.00          | 2.45  |           |                 |  |

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 89.4-126

| Chloride, SM4500Cl-B |        |                 | mg/kg      |              |     |            |               |      |           | Analyzed By: HM |  |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|-----------------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |                 |  |
| Chloride             | 4960   | 16.0            | 07/19/2012 | ND           | 416 | 104        | 400           | 0.00 |           |                 |  |

| TPH 8015M    |        |                 | mg/kg      |              |     |            |               |      |           | Analyzed By: AM |  |
|--------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|-----------------|--|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |                 |  |
| GRO C6-C10   | <10.0  | 10.0            | 07/18/2012 | ND           | 166 | 83.1       | 200           | 7.23 |           |                 |  |
| DRO >C10-C28 | 24.8   | 10.0            | 07/18/2012 | ND           | 171 | 85.7       | 200           | 6.06 |           |                 |  |

Surrogate: 1-Chlorooctane 81.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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: 07/18/2012  
Reported: 07/24/2012  
Project Name: STATE GA NO. 6  
Project Number: NONE GIVEN  
Project Location: SEC. 16 - T15S - R36 E

Sampling Date: 07/17/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S - 3 0' (H201640-05)**

| BTX 8021B      |              |                 | mg/kg      |              |      |            |               |       |           | Analyzed By: MS |  |
|----------------|--------------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|-----------------|--|
| Analyte        | Result       | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |                 |  |
| Benzene*       | <0.050       | 0.050           | 07/23/2012 | ND           | 1.80 | 90.0       | 2.00          | 3.13  |           |                 |  |
| Toluene*       | <0.050       | 0.050           | 07/23/2012 | ND           | 1.83 | 91.5       | 2.00          | 0.431 |           |                 |  |
| Ethylbenzene*  | <b>0.055</b> | 0.050           | 07/23/2012 | ND           | 1.91 | 95.6       | 2.00          | 0.110 |           |                 |  |
| Total Xylenes* | <b>0.238</b> | 0.150           | 07/23/2012 | ND           | 5.74 | 95.7       | 6.00          | 0.699 |           |                 |  |

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 89.4-126

| Chloride, SM4500Cl-B |              |                 | mg/kg      |              |     |            |               |      |           | Analyzed By: HM |  |
|----------------------|--------------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|-----------------|--|
| Analyte              | Result       | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |                 |  |
| Chloride             | <b>21600</b> | 16.0            | 07/19/2012 | ND           | 416 | 104        | 400           | 0.00 |           |                 |  |

| TPH 8015M    |        |                 | mg/kg      |              |     |            |               |      |           | Analyzed By: AM |  |
|--------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|-----------------|--|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |                 |  |
| GRO C6-C10   | <10.0  | 10.0            | 07/18/2012 | ND           | 166 | 83.1       | 200           | 7.23 |           |                 |  |
| DRO >C10-C28 | <10.0  | 10.0            | 07/18/2012 | ND           | 171 | 85.7       | 200           | 6.06 |           |                 |  |

Surrogate: 1-Chlorooctane 77.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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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: 07/18/2012  
Reported: 07/24/2012  
Project Name: STATE GA NO. 6  
Project Number: NONE GIVEN  
Project Location: SEC. 16 - T15S - R36 E

Sampling Date: 07/17/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S - 3 0.5' BGS (H201640-06)**

| BTEX 8021B     |        |                 | mg/kg      |              | Analyzed By: MS |            |               |       |           |  |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|-------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD   | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 07/23/2012 | ND           | 1.80            | 90.0       | 2.00          | 3.13  |           |  |
| Toluene*       | <0.050 | 0.050           | 07/23/2012 | ND           | 1.83            | 91.5       | 2.00          | 0.431 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 07/23/2012 | ND           | 1.91            | 95.6       | 2.00          | 0.110 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 07/23/2012 | ND           | 5.74            | 95.7       | 6.00          | 0.699 |           |  |

Surrogate: 4-Bromofluorobenzene (PII) 103 % 89.4-126

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 3040   | 16.0            | 07/19/2012 | ND              | 416 | 104        | 400           | 0.00 |           |  |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: AM |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 07/18/2012 | ND              | 166 | 83.1       | 200           | 7.23 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 07/18/2012 | ND              | 171 | 85.7       | 200           | 6.06 |           |

Surrogate: 1-Chlorooctane 77.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



### Notes and Definitions

|      |  |
|------|--|
| S-06 | The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.         |
| 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<br>Samples reported on an as received basis (wet) unless otherwise noted on report |

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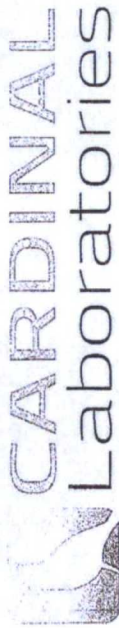
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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| BILL TO                            |             | ANALYSIS REQUEST                 |                 |                      |         |          |         |       |           |            |                 |
|------------------------------------|-------------|----------------------------------|-----------------|----------------------|---------|----------|---------|-------|-----------|------------|-----------------|
| Company Name: Talon / LPE          |             | P.O. #:                          |                 | Company: Talon / LPE |         |          |         |       |           |            |                 |
| Project Manager: Mike Stubbiefield |             | Address: 408 Alti Talon Ave.     |                 | Attn:                |         |          |         |       |           |            |                 |
| City: Artesia                      |             | State: NM Zip: 88210             |                 | Address:             |         |          |         |       |           |            |                 |
| Phone #: 505-441-7254              |             | Fax #: 505-441-7254              |                 | City:                |         |          |         |       |           |            |                 |
| Project #:                         |             | Project Owner: Legacy Res. Oper. |                 | State:               |         | Zip:     |         |       |           |            |                 |
| Project Name: State GA No. 6       |             | Phone #: 505-16-7155-R36F        |                 |                      |         |          |         |       |           |            |                 |
| Project Location: 16.7155-R36F     |             | Fax #: 505-16-7155-R36F          |                 |                      |         |          |         |       |           |            |                 |
| Sampler Name: Mike Stubbiefield    |             |                                  |                 |                      |         |          |         |       |           |            |                 |
| FOR LAB USE ONLY                   |             |                                  |                 |                      |         |          |         |       |           |            |                 |
| Lab I.D.                           | Sample I.D. | # CONTAINERS                     | (GRAB OR COM.P) | MATRIX               | PRESERV | SAMPLING | DATE    | TIME  | 8015M TON | 8021G OTEX | Total Chlorides |
| 1                                  | 5-10'       | 1                                | 1               | WASTEWATER           | ✓       | ✓        | 7/17/12 | 5:09P | ✓         | ✓          | ✓               |
| 2                                  | 5-10' bgs   | 1                                | 1               | SOIL                 | ✓       | ✓        | 7/17/12 | 5:12P | ✓         | ✓          | ✓               |
| 3                                  | 5-20'       | 1                                | 1               | SLUDGE               | ✓       | ✓        | 7/17/12 | 5:15P | ✓         | ✓          | ✓               |
| 4                                  | 5-20.5' bgs | 1                                | 1               | GROUNDWATER          | ✓       | ✓        | 7/17/12 | 5:20P | ✓         | ✓          | ✓               |
| 5                                  | 5-30'       | 1                                | 1               | OTHER                | ✓       | ✓        | 7/17/12 | 5:30P | ✓         | ✓          | ✓               |
| 6                                  | 5-30.5' bgs | 1                                | 1               | OTHER                | ✓       | ✓        | 7/17/12 | 5:36P | ✓         | ✓          | ✓               |

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|  |                 |   |                         |
|--|-----------------|---|-------------------------|
| Relinquished By: Mike Stubbiefield                                     | Date: 7/19/2012 | Received By: [Signature]  | Date: 7/19/2012         |
| Relinquished By:   | Date:           | Received By:  | Date:                   |
| Delivered By: (Circle One)   | Time: 5:00      | Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> | CHECKED BY: [Signature] |
| Sampler - UPS - Bus - Other  |                 |   |                         |
| Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No |                 | Add'l Phone #: _____  |                         |
| Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No   |                 | Add'l Fax #: _____  |                         |
| REMARKS:   |                 |   |                         |





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

|  |  |  |  |   |  |              |  |   |  |                                     |  |              |  |  |  |
|--|--|--|--|---|--|--------------|--|---|--|-------------------------------------|--|--------------|--|--|--|
| <b>Company Name:</b> Talon/LPE<br><b>Project Manager:</b> Mike Stubbelfield<br><b>Address:</b> 408 N. Texas Ave.<br><b>City:</b> Artesia<br><b>State:</b> N.M. <b>Zip:</b> 88210<br><b>Phone #:</b> 505.441.7254 <b>Fax #:</b><br><b>Project #:</b> 701047.035.01 <b>Project Owner:</b> Legacy Rec. Oper.<br><b>Project Name:</b> State & R No. 6<br><b>Project Location:</b> Sec. 16. T15S. R36E<br><b>Sample Name:</b> M. J. Stubbelfield<br><b>FOR LAB USE ONLY</b> |  |  |  | <b>P.O. #:</b><br><b>Company:</b> Talon/LPE<br><b>Attn:</b><br><b>Address:</b><br><b>City:</b><br><b>State:</b> <b>Zip:</b><br><b>Phone #:</b><br><b>Fax #:</b> |  |              |  |   |  |                                     |  |              |  |  |  |
| <b>Lab I.D.</b> Sample I.D.<br>H20164C   |  |  |  | (G) RAB OR (C) OMP.   |  | # CONTAINERS |  | GROUNDWATER<br>WASTEWATER<br>SOIL<br>OIL<br>SLUDGE<br>OTHER : |  | ACID/BASE:<br>ICE / COOL<br>OTHER : |  | DATE<br>TIME |  | 8015M TPH<br>8021B BTEX<br>Total Chlorides |  |
|  |  |  |  |   |  |              |  |   |  |                                     |  |              |  |  |  |
| 1 5.10' C ✓ 9/17/12 5:09P ✓<br>2 5.11' bgs C ✓ 9/17/12 5:12P ✓<br>3 5.20' C ✓ 9/17/12 5:15P ✓<br>4 5.20.5' bgs C ✓ 9/17/12 5:20P ✓<br>5 5.30' C ✓ 9/17/12 5:30P ✓<br>6 5.30.5' bgs C ✓ 9/17/12 5:36P ✓   |  |  |  |   |  |              |  |   |  |                                     |  |              |  |  |  |

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|   |  |  |  |
|---|--|--|--|
| <b>Relinquished By:</b> M. J. Stubbelfield<br><b>Date:</b> 7/18/12<br><b>Received By:</b> [Signature]<br><b>Date:</b> 7/18/12 |  | <b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b><br><b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Fax #:</b> |  |
| <b>REMARKS:</b>   |  |  |  |

**Delivered By: (Circle One)** ☒ Driver ☐ Other  
**Sampler - UPS - Bus - Other**

**Sample Condition**  
 Cool ☒ Intact ☒  
 Dry ☒ Yes ☐ No  
 No ☐ Yes ☒ No

**CHICKENED BY:** [Signature]





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

---

August 30, 2012

MIKE STUBBLEFIELD  
TALON LPE  
408 W. TEXAS AVE.  
ARTESIA, NM 88210

RE: STATE GA #1

Enclosed are the results of analyses for samples received by the laboratory on 08/23/12 17:07.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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 (V1, 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

**Analytical Results For:**

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

Received: 08/23/2012  
Reported: 08/30/2012  
Project Name: STATE GA #1  
Project Number: 701047.055  
Project Location: 16-15S-36E

Sampling Date: 08/21/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: B - 1 2' (H202027-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: AP |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 08/29/2012 | ND              | 1.64 | 82.1       | 2.00          | 2.13 |           |  |
| Toluene*       | <0.050 | 0.050           | 08/29/2012 | ND              | 1.67 | 83.7       | 2.00          | 2.70 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 08/29/2012 | ND              | 1.74 | 87.2       | 2.00          | 3.08 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 08/29/2012 | ND              | 5.53 | 92.1       | 6.00          | 3.19 |           |  |

Surrogate: 4-Bromofluorobenzene (PIE) 97.7 % 89.4-126

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 1070   | 16.0            | 08/27/2012 | ND              | 416 | 104        | 400           | 0.00 |           |  |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 08/28/2012 | ND              | 197 | 98.3       | 200           | 2.52 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 08/28/2012 | ND              | 198 | 98.8       | 200           | 1.52 |           |

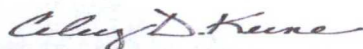
Surrogate: 1-Chlorooctane 85.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

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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: 08/23/2012  
Reported: 08/30/2012  
Project Name: STATE GA #1  
Project Number: 701047.055  
Project Location: 16-15S-36E

Sampling Date: 08/21/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: B - 1 4' (H202027-02)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: AP |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 08/29/2012 | ND              | 1.64 | 82.1       | 2.00          | 2.13 |           |
| Toluene*       | <0.050 | 0.050           | 08/29/2012 | ND              | 1.67 | 83.7       | 2.00          | 2.70 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 08/29/2012 | ND              | 1.74 | 87.2       | 2.00          | 3.08 |           |
| Total Xylenes* | <0.150 | 0.150           | 08/29/2012 | ND              | 5.53 | 92.1       | 6.00          | 3.19 |           |

Surrogate: 4-Bromofluorobenzene (PIE) 99.7 % 89.4-126

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 1960   | 16.0            | 08/27/2012 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 08/28/2012 | ND              | 197 | 98.3       | 200           | 2.52 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 08/28/2012 | ND              | 198 | 98.8       | 200           | 1.52 |           |

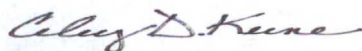
Surrogate: 1-Chlorooctane 80.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.6 % 63.6-154

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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: 08/23/2012  
Reported: 08/30/2012  
Project Name: STATE GA #1  
Project Number: 701047.055  
Project Location: 16-15S-36E

Sampling Date: 08/21/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: B - 1 6' (H202027-03)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: AP |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 08/29/2012 | ND              | 1.64 | 82.1       | 2.00          | 2.13 |           |  |
| Toluene*       | <0.050 | 0.050           | 08/29/2012 | ND              | 1.67 | 83.7       | 2.00          | 2.70 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 08/29/2012 | ND              | 1.74 | 87.2       | 2.00          | 3.08 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 08/29/2012 | ND              | 5.53 | 92.1       | 6.00          | 3.19 |           |  |

Surrogate: 4-Bromofluorobenzene (PIE) 97.2 % 89.4-126

| Chloride, SM4500Cl-B |        |                 | mg/kg      |              | Analyzed By: HM |            |               |      |           |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 528    | 16.0            | 08/27/2012 | ND           | 416             | 104        | 400           | 0.00 |           |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10   | <10.0  | 10.0            | 08/28/2012 | ND              | 197 | 98.3       | 200           | 2.52 |           |  |
| DRO >C10-C28 | <10.0  | 10.0            | 08/28/2012 | ND              | 198 | 98.8       | 200           | 1.52 |           |  |


Surrogate: 1-Chlorooctane 89.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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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: 08/23/2012  
Reported: 08/30/2012  
Project Name: STATE GA #1  
Project Number: 701047.055  
Project Location: 16-15S-36E

Sampling Date: 08/21/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: B - 1 8' (H202027-04)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: AP |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 08/29/2012 | ND              | 1.64 | 82.1       | 2.00          | 2.13 |           |
| Toluene*       | <0.050 | 0.050           | 08/29/2012 | ND              | 1.67 | 83.7       | 2.00          | 2.70 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 08/29/2012 | ND              | 1.74 | 87.2       | 2.00          | 3.08 |           |
| Total Xylenes* | <0.150 | 0.150           | 08/29/2012 | ND              | 5.53 | 92.1       | 6.00          | 3.19 |           |

Surrogate: 4-Bromofluorobenzene (PIE) 99.1 % 89.4-126

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 160    | 16.0            | 08/27/2012 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 08/28/2012 | ND              | 197 | 98.3       | 200           | 2.52 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 08/28/2012 | ND              | 198 | 98.8       | 200           | 1.52 |           |

Surrogate: 1-Chlorooctane 100 % 65.2-140

Surrogate: 1-Chlorooctadecane 116 % 63.6-154

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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: 08/23/2012  
Reported: 08/30/2012  
Project Name: STATE GA #1  
Project Number: 701047.055  
Project Location: 16-15S-36E

Sampling Date: 08/21/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: B - 1 10' (H202027-05)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: AP |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 08/29/2012 | ND              | 1.64 | 82.1       | 2.00          | 2.13 |           |
| Toluene*       | <0.050 | 0.050           | 08/29/2012 | ND              | 1.67 | 83.7       | 2.00          | 2.70 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 08/29/2012 | ND              | 1.74 | 87.2       | 2.00          | 3.08 |           |
| Total Xylenes* | <0.150 | 0.150           | 08/29/2012 | ND              | 5.53 | 92.1       | 6.00          | 3.19 |           |

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 89.4-126

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 64.0   | 16.0            | 08/27/2012 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 08/28/2012 | ND              | 197 | 98.3       | 200           | 2.52 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 08/28/2012 | ND              | 198 | 98.8       | 200           | 1.52 |           |

Surrogate: 1-Chlorooctane 92.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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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: 08/23/2012  
Reported: 08/30/2012  
Project Name: STATE GA #1  
Project Number: 701047.055  
Project Location: 16-15S-36E

Sampling Date: 08/21/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: B - 2 2' (H202027-06)**

| BTX 8021B      |        |                 | mg/kg      |              | Analyzed By: AP |            |               |      |           |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 08/29/2012 | ND           | 1.64            | 82.1       | 2.00          | 2.13 |           |
| Toluene*       | <0.050 | 0.050           | 08/29/2012 | ND           | 1.67            | 83.7       | 2.00          | 2.70 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 08/29/2012 | ND           | 1.74            | 87.2       | 2.00          | 3.08 |           |
| Total Xylenes* | <0.150 | 0.150           | 08/29/2012 | ND           | 5.53            | 92.1       | 6.00          | 3.19 |           |

Surrogate: 4-Bromofluorobenzene (PIC) 98.1 % 89.4-126

| Chloride, SM4500Cl-B |        |                 | mg/kg      |              | Analyzed By: HM |            |               |      |           |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 416    | 16.0            | 08/27/2012 | ND           | 416             | 104        | 400           | 0.00 |           |

| TPH 8015M    |        |                 | mg/kg      |              | Analyzed By: MS |            |               |      |           |
|--------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 08/28/2012 | ND           | 197             | 98.3       | 200           | 2.52 |           |
| DRO >C10-C28 | 10.9   | 10.0            | 08/28/2012 | ND           | 198             | 98.8       | 200           | 1.52 |           |

Surrogate: 1-Chlorooctane 87.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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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: 08/23/2012  
Reported: 08/30/2012  
Project Name: STATE GA #1  
Project Number: 701047.055  
Project Location: 16-15S-36E

Sampling Date: 08/21/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: B - 2 4' (H202027-07)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: AP |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 08/29/2012 | ND              | 1.64 | 82.1       | 2.00          | 2.13 |           |
| Toluene*       | <0.050 | 0.050           | 08/29/2012 | ND              | 1.67 | 83.7       | 2.00          | 2.70 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 08/29/2012 | ND              | 1.74 | 87.2       | 2.00          | 3.08 |           |
| Total Xylenes* | <0.150 | 0.150           | 08/29/2012 | ND              | 5.53 | 92.1       | 6.00          | 3.19 |           |

Surrogate: 4-Bromofluorobenzene (PIE) 96.6 % 89.4-126

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 128    | 16.0            | 08/27/2012 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 08/28/2012 | ND              | 197 | 98.3       | 200           | 2.52 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 08/28/2012 | ND              | 198 | 98.8       | 200           | 1.52 |           |

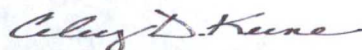
Surrogate: 1-Chlorooctane 90.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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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: 08/23/2012  
Reported: 08/30/2012  
Project Name: STATE GA #1  
Project Number: 701047.055  
Project Location: 16-15S-36E

Sampling Date: 08/21/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: B - 2 6' (H202027-08)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: AP |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 08/29/2012 | ND              | 1.64 | 82.1       | 2.00          | 2.13 |           |
| Toluene*       | <0.050 | 0.050           | 08/29/2012 | ND              | 1.67 | 83.7       | 2.00          | 2.70 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 08/29/2012 | ND              | 1.74 | 87.2       | 2.00          | 3.08 |           |
| Total Xylenes* | <0.150 | 0.150           | 08/29/2012 | ND              | 5.53 | 92.1       | 6.00          | 3.19 |           |

Surrogate: 4-Bromofluorobenzene (PIE) 96.6 % 89.4-126

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 160    | 16.0            | 08/27/2012 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 08/28/2012 | ND              | 197 | 98.3       | 200           | 2.52 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 08/28/2012 | ND              | 198 | 98.8       | 200           | 1.52 |           |

Surrogate: 1-Chlorooctane 85.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.0 % 63.6-154

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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: 08/23/2012  
 Reported: 08/30/2012  
 Project Name: STATE GA #1  
 Project Number: 701047.055  
 Project Location: 16-15S-36E

 Sampling Date: 08/21/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: B - 2 8' (H202027-09)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: AP |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 08/29/2012 | ND              | 1.64 | 82.1       | 2.00          | 2.13 |           |
| Toluene*       | <0.050 | 0.050           | 08/29/2012 | ND              | 1.67 | 83.7       | 2.00          | 2.70 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 08/29/2012 | ND              | 1.74 | 87.2       | 2.00          | 3.08 |           |
| Total Xylenes* | <0.150 | 0.150           | 08/29/2012 | ND              | 5.53 | 92.1       | 6.00          | 3.19 |           |

Surrogate: 4-Bromofluorobenzene (PIE) 96.9 % 89.4-126

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 96.0   | 16.0            | 08/27/2012 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 08/28/2012 | ND              | 197 | 98.3       | 200           | 2.52 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 08/28/2012 | ND              | 198 | 98.8       | 200           | 1.52 |           |

Surrogate: 1-Chlorooctane 96.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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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: 08/23/2012  
Reported: 08/30/2012  
Project Name: STATE GA #1  
Project Number: 701047.055  
Project Location: 16-15S-36E

Sampling Date: 08/21/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: B - 2 10' (H202027-10)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: AP |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 08/30/2012 | ND              | 1.64 | 82.1       | 2.00          | 2.13 |           |
| Toluene*       | <0.050 | 0.050           | 08/30/2012 | ND              | 1.67 | 83.7       | 2.00          | 2.70 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 08/30/2012 | ND              | 1.74 | 87.2       | 2.00          | 3.08 |           |
| Total Xylenes* | <0.150 | 0.150           | 08/30/2012 | ND              | 5.53 | 92.1       | 6.00          | 3.19 |           |

Surrogate: 4-Bromofluorobenzene (PIC) 98.1 % 89.4-126

| 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            | 08/27/2012 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 08/28/2012 | ND              | 197 | 98.3       | 200           | 2.52 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 08/28/2012 | ND              | 198 | 98.8       | 200           | 1.52 |           |

Surrogate: 1-Chlorooctane 91.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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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: 08/23/2012  
Reported: 08/30/2012  
Project Name: STATE GA #1  
Project Number: 701047.055  
Project Location: 16-15S-36E

Sampling Date: 08/21/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: B - 3 2' (H202027-11)**

| BTX 8021B      |        |                 | mg/kg      |              | Analyzed By: AP |            |               |      |           |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 08/29/2012 | ND           | 1.64            | 82.1       | 2.00          | 2.13 |           |
| Toluene*       | <0.050 | 0.050           | 08/29/2012 | ND           | 1.67            | 83.7       | 2.00          | 2.70 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 08/29/2012 | ND           | 1.74            | 87.2       | 2.00          | 3.08 |           |
| Total Xylenes* | <0.150 | 0.150           | 08/29/2012 | ND           | 5.53            | 92.1       | 6.00          | 3.19 |           |

Surrogate: 4-Bromofluorobenzene (PIL) 95.3 % 89.4-126

| Chloride, SM4500Cl-B |        |                 | mg/kg      |              | Analyzed By: HM |            |               |      |           |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 1890   | 16.0            | 08/27/2012 | ND           | 416             | 104        | 400           | 0.00 |           |

| TPH 8015M    |        |                 | mg/kg      |              | Analyzed By: MS |            |               |      |           |
|--------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 08/28/2012 | ND           | 197             | 98.3       | 200           | 2.52 |           |
| DRO >C10-C28 | 30.3   | 10.0            | 08/28/2012 | ND           | 198             | 98.8       | 200           | 1.52 |           |

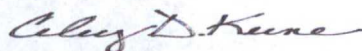
Surrogate: 1-Chlorooctane 86.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

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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: 08/23/2012  
 Reported: 08/30/2012  
 Project Name: STATE GA #1  
 Project Number: 701047.055  
 Project Location: 16-15S-36E

 Sampling Date: 08/21/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: B - 3 4' (H202027-12)**

| BTEX 8021B     |        |                 | mg/kg      |              | Analyzed By: AP |            |               |      |           |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 08/29/2012 | ND           | 1.64            | 82.1       | 2.00          | 2.13 |           |
| Toluene*       | <0.050 | 0.050           | 08/29/2012 | ND           | 1.67            | 83.7       | 2.00          | 2.70 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 08/29/2012 | ND           | 1.74            | 87.2       | 2.00          | 3.08 |           |
| Total Xylenes* | <0.150 | 0.150           | 08/29/2012 | ND           | 5.53            | 92.1       | 6.00          | 3.19 |           |

Surrogate: 4-Bromofluorobenzene (PIL) 96.3 % 89.4-126

| Chloride, SM4500Cl-B |        |                 | mg/kg      |              | Analyzed By: HM |            |               |      |           |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 256    | 16.0            | 08/27/2012 | ND           | 416             | 104        | 400           | 0.00 |           |

| TPH 8015M    |        |                 | mg/kg      |              | Analyzed By: MS |            |               |      |           |
|--------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 08/28/2012 | ND           | 197             | 98.3       | 200           | 2.52 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 08/28/2012 | ND           | 198             | 98.8       | 200           | 1.52 |           |

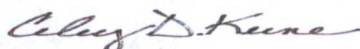
Surrogate: 1-Chlorooctane 96.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

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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: 08/23/2012  
Reported: 08/30/2012  
Project Name: STATE GA #1  
Project Number: 701047.055  
Project Location: 16-15S-36E

Sampling Date: 08/21/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: B - 3 6' (H202027-13)**

| BTX 8021B      |        |                 | mg/kg      |              | Analyzed By: AP |            |               |      |           |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 08/29/2012 | ND           | 1.64            | 82.1       | 2.00          | 2.13 |           |
| Toluene*       | <0.050 | 0.050           | 08/29/2012 | ND           | 1.67            | 83.7       | 2.00          | 2.70 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 08/29/2012 | ND           | 1.74            | 87.2       | 2.00          | 3.08 |           |
| Total Xylenes* | <0.150 | 0.150           | 08/29/2012 | ND           | 5.53            | 92.1       | 6.00          | 3.19 |           |

Surrogate: 4-Bromofluorobenzene (PIE) 98.2 % 89.4-126

| Chloride, SM4500Cl-B |        |                 | mg/kg      |              | Analyzed By: HM |            |               |      |           |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 336    | 16.0            | 08/27/2012 | ND           | 416             | 104        | 400           | 0.00 |           |

| TPH 8015M    |        |                 | mg/kg      |              | Analyzed By: MS |            |               |      |           |
|--------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 08/28/2012 | ND           | 197             | 98.3       | 200           | 2.52 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 08/28/2012 | ND           | 198             | 98.8       | 200           | 1.52 |           |

Surrogate: 1-Chlorooctane 89.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.1 % 63.6-154

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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: 08/23/2012  
Reported: 08/30/2012  
Project Name: STATE GA #1  
Project Number: 701047.055  
Project Location: 16-15S-36E

Sampling Date: 08/21/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: B - 3 8' (H202027-14)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: AP |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 08/29/2012 | ND              | 1.64 | 82.1       | 2.00          | 2.13 |           |
| Toluene*       | <0.050 | 0.050           | 08/29/2012 | ND              | 1.67 | 83.7       | 2.00          | 2.70 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 08/29/2012 | ND              | 1.74 | 87.2       | 2.00          | 3.08 |           |
| Total Xylenes* | <0.150 | 0.150           | 08/29/2012 | ND              | 5.53 | 92.1       | 6.00          | 3.19 |           |

Surrogate: 4-Bromofluorobenzene (PIE) 97.9 % 89.4-126

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 160    | 16.0            | 08/27/2012 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 08/28/2012 | ND              | 197 | 98.3       | 200           | 2.52 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 08/28/2012 | ND              | 198 | 98.8       | 200           | 1.52 |           |

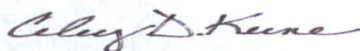
Surrogate: 1-Chlorooctane 83.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.6 % 63.6-154

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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:         | 08/23/2012  | Sampling Date:      | 08/21/2012    |
| Reported:         | 08/30/2012  | Sampling Type:      | Soil          |
| Project Name:     | STATE GA #1 | Sampling Condition: | Cool & Intact |
| Project Number:   | 701047.055  | Sample Received By: | Jodi Henson   |
| Project Location: | 16-15S-36E  |                     |               |

Sample ID: B - 3 10' (H202027-15)

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: AP |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 08/29/2012 | ND              | 1.64 | 82.1       | 2.00          | 2.13 |           |
| Toluene*       | <0.050 | 0.050           | 08/29/2012 | ND              | 1.67 | 83.7       | 2.00          | 2.70 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 08/29/2012 | ND              | 1.74 | 87.2       | 2.00          | 3.08 |           |
| Total Xylenes* | <0.150 | 0.150           | 08/29/2012 | ND              | 5.53 | 92.1       | 6.00          | 3.19 |           |

Surrogate: 4-Bromofluorobenzene (PIE) 97.5 % 89.4-126

| 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            | 08/27/2012 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 08/28/2012 | ND              | 197 | 98.3       | 200           | 2.52 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 08/28/2012 | ND              | 198 | 98.8       | 200           | 1.52 |           |

Surrogate: 1-Chlorooctane 83.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.7 % 63.6-154

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



# CARDINAL Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: **Talon LPE**

Project Manager: **David Perkins**

Address: **408 W. Texas**

City: **Artesia** State: **NM** Zip: **88210**

Phone #: **575-746-8168** Fax #: **575-746-8985**

Project #: **701047-055** Project Owner: **LeMay**

Project Name: **State 44 #1**

Project Location: **16-153-36E**

Sampler Name: **Kimberly M. Wilson**

FOR LAB USE ONLY

Lab I.D. Sample I.D.

**H202027**

(G)RAB OR (C)OMP.  
# CONTAINERS  
GROUNDWATER  
WASTEWATER  
SOIL  
OIL  
SLUDGE  
OTHER :  
ACID/BASE:  
ICE / COOL  
OTHER :

MATRIX

PRESERV

SAMPLING

DATE TIME

**BETX  
TPH  
Chlorides**

ANALYSIS REQUEST

P.O. #:

Company: **Talon LPE**

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

Relinquished By:

Date: **8/23/12** Received By:

Relinquished By:

Date: **8/23/12** Received By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other

Sample Condition

Cool Intact

Yes No

CHECKED BY:

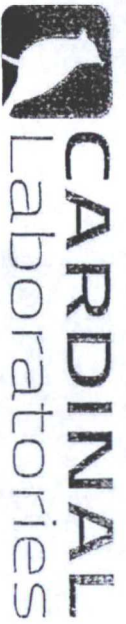
(Initials)

REMARKS:

Phone Result: ☐ Yes ☐ No Add'l Phone #:

Fax Result: ☐ Yes ☐ No Add'l Fax #:





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ANALYSIS REQUEST

|   |  |   |  |           |  |
|---|--|---|--|-----------|--|
| Company Name: <b>Talon LPE</b>                            |  | P.O. #:   |  | BILL TO   |  |
| Project Manager: <b>Dave Perkins</b>                      |  | Company: <b>Talon LPE</b>   |  |           |  |
| Address: <b>488 W. Texas</b>                              |  | Attn:   |  |           |  |
| City: <b>Alto</b> State: <b>Alm</b> Zip: <b>88310</b>     |  | Address:  |  |           |  |
| Phone #: <b>578-746-8768</b> Fax #: <b>575-746-8905</b>   |  | City:   |  |           |  |
| Project #: <b>701047.055</b> Project Owner: <b>Legacy</b> |  | State:  |  |           |  |
| Project Name: <b>State QA #1</b>                          |  | Zip:  |  |           |  |
| Project Location: <b>16-155-36E</b>                       |  | Phone #:  |  |           |  |
| Sample Name: <b>Timberly M. Wilson</b>                    |  | Fax #:  |  |           |  |
| FOR LAB USE ONLY  |  | PRESERV   |  | SAMPLING  |  |
| Lab I.D.  |  | Sample I.D.   |  |           |  |
| H202027   |  | (G)RAB OR (C)OMP.   |  |           |  |
|   |  | # CONTAINERS  |  |           |  |
|   |  | GROUNDWATER   |  |           |  |
|   |  | WASTEWATER  |  |           |  |
|   |  | SOIL  |  |           |  |
|   |  | OIL   |  |           |  |
|   |  | SLUDGE  |  |           |  |
|   |  | OTHER :   |  |           |  |
|   |  | ACID/BASE:  |  |           |  |
|   |  | ICE / COOL  |  |           |  |
|   |  | OTHER :   |  |           |  |
|   |  | DATE  |  | TIME      |  |
| 11 B-3 2'   |  | 8/21/12 2:11  |  | BETX      |  |
| 12 B-3 4'   |  | 8/21/12 2:13  |  | TPH       |  |
| 13 B-3 6'   |  | 8/21/12 2:15  |  | Chlorides |  |
| 14 B-3 8'   |  | 8/21/12 2:18  |  |           |  |
| 15 B-3 10'  |  | 8/21/12 2:21  |  |           |  |
| Requisitioned By: <b>M. Wilson</b>                        |  | Received By: <b>M. Wilson</b>   |  |           |  |
| Requisitioned Date: <b>8/23/12</b>                        |  | Received Date: <b>8/23/12</b>   |  |           |  |
| Delivered By: <b>(Circle One)</b>                         |  | Sample Condition  |  |           |  |
| Sampler - UPS - Bus - Other: <b>Bus</b>                   |  | Cool / Intact   |  |           |  |
|   |  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                             |  |           |  |
|   |  | Checked By: <b>M. Wilson</b>  |  |           |  |
|   |  | Checked Date: <b>8/23/12</b>  |  |           |  |
|   |  | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> |  |           |  |
|   |  | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>   |  |           |  |
|   |  | Add'l Phone #:  |  |           |  |
|   |  | Add'l Fax #:  |  |           |  |
|   |  | REMARKS:  |  |           |  |

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