



# Linn Energy Turner A #39

## CLOSURE REPORT

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**2RP-2148-0**

API No. 30-015-28770

Release Date: 11/06/2013

Unit Letter N, Section 18, Township 17 South, Range 31 East

October 02, 2014

**Prepared by:**

Environmental Department  
Diversified Field Service, Inc.  
206 W. Snyder  
Hobbs, NM 88240  
Phone: (575)964-8394  
Fax: (575)393-8396

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# Turner A #39

## 1 INTRODUCTION

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Linn Energy (Linn) has retained Diversified Field Service, Inc. (DFSI) to address environmental issues for the site detailed herein.

The site is located west of Maljamar NM, Unit letter 'N', sec. 18, T17S R31E, in Eddy County. The incident at this site location was as the result of a compromised bridle causing flow lines to separate from the well head. There were 6 bbls. of produced water and 15 gals. crude oil that leaked. A vacuum truck was utilized to recover approximately 3 bbls. of produced water, and approximately 10 gls. of standing fluid respectively. New valves were installed to prevent further impact. The aforementioned caused approximately 2,952 sq. ft. of impact to the pad area. (Figure). It is the intention of Linn Energy to restore the site to pre-incident condition, prevention of any groundwater impact and preserve life forms.

A form C-141 was submitted to the NMOCD on November 06, 2013 2RP-2148 (Appendix I)

## 2 SITE ACTIVITIES

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On December 13, 2013 DFSI field personnel paid an initial visit to the site location. DFSI personnel assessed the impacted area by mapping and ascertaining sample point positions. There were five (5) sample points placed in all. A representative soil sample was retrieved at surface and sent to a commercial laboratory for Chloride and TPH analyses. The following is a recap of the results:

SP1 @ Surface returned Chlorides of 2800 mg/kg, BTEX <.300 mg/kg, GRO <50.0 mg/kg, and DRO at 3050 mg/kg.

SP2 @ Surface returned Chlorides of 592 mg/kg, BTEX <.300 mg/kg, GRO <100 mg/kg, and DRO at 8900 mg/kg.

SP3 @ Surface returned Chlorides of 592 mg/kg, BTEX <.300 mg/kg, GRO and DRO were non-detect.

SP4 @ Surface returned Chlorides of 2640 mg/kg, BTEX <.300 mg/kg, GRO and DRO were non-detect.

SP5 @ Surface returned Chlorides of <16.0 mg/kg, BTEX <.300 mg/kg, DRO and DRO were non-detect (Appendix IV).

On April 02, 2014 DFSI personnel reexamined the site in order to fully delineate the site. A representative confirmation sample was taken of all sample points and sent to a commercial laboratory for analyses. The following is a recap of the results:

SP1 @ 1ft. bgs. returned Chlorides of 368 mg/kg, BTEX <.300, GRO <10.0 mg/kg, and DRO of 527 mg/kg.

SP2 @ 1ft. bgs. returned Chlorides of 1710 mg/kg, BTEX <.300 mg/kg, DRO <10.0 mg/kg, and DRO at 56.0 mg/kg.

SP3 @ 2ft. bgs. returned Chlorides of 128 mg/kg, BTEX <.300 mg/kg, GRO and DRO were non-detect.

SP4 @ 2ft. bgs. returned Chlorides of 80.0 mg/kg, BTEX <.300 mg/kg, GRO and DRO were non-detect.

SP5 @ 2ft. bgs. returned Chlorides of 48.0 mg/kg, BTEX <.300 mg/kg, GRO and DRO were non-detect.

(Appendix IV).

On April 14, 2014 DFSI field personnel returned to the site to further delineate SP1 and SP2 respectively. A representative soil sample was retrieved of SP1 at 3 ft. bgs., as well as of SP2 at 3ft. bgs. These two samples were sent to a commercial laboratory for confirmation. The following is a recap of the analyses:

SP1 returned a result for chloride of 368 mg/kg, BTEX <.300, GRO <10. mg/kg, and DRO of 18.0 mg/kg.

SP2 returned a result for Chloride of 128 mg/kg, BTEX of 2.80 mg/kg, GRO <100 and DRO <100 mg/kg (Appendix IV).

On April 24, 2014 DFSI submitted a proposed remediation plan to the BLM, inclusive of an outline to excavate SP1 thru SP5 to 1.5 ft. bgs. The site would then be backfilled with fresh caliche and contoured to the remaining pad area.

On May 12, 2014 DFSI received authorization from the BLM to proceed with said remediation of the site (Appendix V).

On May 28, 2014 DFSI returned to the site in order to proceed with the excavation. The impacted area was excavated to 1.5 ft. and all impacted soils were disposed of at an NMOCD approved facility. The DFSI field personnel retrieved a bottom and sidewall sample of the excavation at 1ft. bgs. for confirmation of the vertical delineation. The representative soil samples were sent to a commercial laboratory for confirmation. The analyses of BSI returned chloride result of 160 mg/kg and TPH of <50. The chloride result for SW1 North side return for chloride was 48 mg/kg and TPH of <10 mg/kg. The chloride result for SW2 West side was 816 mg/kg and TPH <10 mg/kg. The chloride result for SW3 South side was 128 mg/kg and TPH <10. The chloride result for SW4 East side was 176 mg/kg and TPH <10 mg/kg (Appendix IV).

Photographs of site activities can be viewed in Appendix II.

### **3 CONCLUSION**

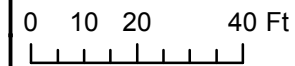
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According to the U.S. Geological Survey and the NM Office of the State Engineer, there were no records of groundwater in the immediate vicinity, however depth to groundwater in the area averages greater than 236 ft. bgs indicating no potential threat to groundwater or life forms (Appendix III). Based on the removal of soils containing elevated chloride and visual staining at the site, DFSI, on behalf of Linn, submits the final form C-141 (Appendix VI), and respectfully requests the closure of the regulatory file for the site.

# Site Diagram






**Linn, Turner A 39**  
**UL/N, Sec. 18 T17S R31E**  
**Eddy, NM**

*Drafted By: Lance Crenshaw 3-10-14*



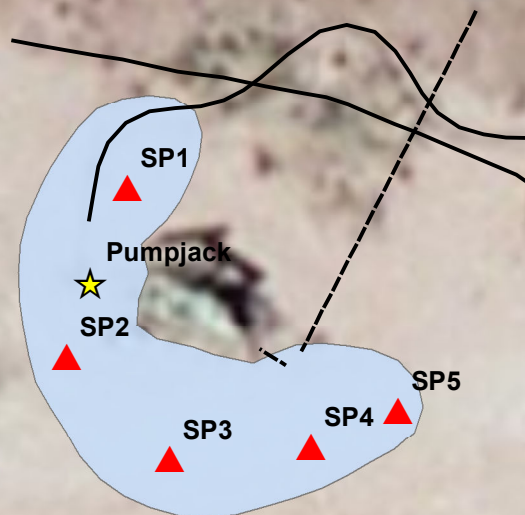
**Area Spill:**  
**2,952 sq. ft.**

## Legend

-  Sample Points
-  Source
-  Above Ground Line
-  Buried Line
-  Spill

Landowner: BLM

Depth to Groundwater: 236 ft.



Lance Crenshaw  
GIS Technician

Soil Remediation and Ground Water Remediation  
Environmental Assessments  
Regulatory Compliance



Environmental

**DFSI**

Services

Office: 575-964-8394  
Fax: 575-964-8396

Cell: 575-441-2359  
Email: lcrenshaw@diversifiedfsi.com

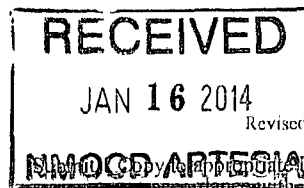
Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



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

Release Notification and Corrective Action

nmcb1407029586

OPERATOR

☒ Initial Report ☐ Final Report

|   |        |                             |
|---|--------|-----------------------------|
| Name of Company: Linn Operating         | 269324 | Contact: Brian Wall         |
| Address: 2130 W. Bender Hobbs, NM 88240 |        | Telephone No.: 575-738-1739 |
| Facility Name: Turner A #39             |        | Facility Type: Oil          |

|                        |                |                       |
|------------------------|----------------|-----------------------|
| Surface Owner: Federal | Mineral Owner: | API No.: 30-015-28770 |
|------------------------|----------------|-----------------------|

LOCATION OF RELEASE

|                  |               |                 |              |                       |                           |                       |                        |                |
|------------------|---------------|-----------------|--------------|-----------------------|---------------------------|-----------------------|------------------------|----------------|
| Unit Letter<br>N | Section<br>18 | Township<br>17S | Range<br>31E | Feet from the<br>1310 | North/South Line<br>South | Feet from the<br>2300 | East/West Line<br>West | County<br>Eddy |
|------------------|---------------|-----------------|--------------|-----------------------|---------------------------|-----------------------|------------------------|----------------|

Latitude: 32.8308687811363 Longitude: -103.909398556665

NATURE OF RELEASE

|  |   |  |
|--|---|--|
| Type of Release: Produced Water / Oil  | Volume of Release: 6 bbls / 15gal                         | Volume Recovered: 3 bbls/ 10gal                  |
| Source of Release: Broken bridle. Well head tubing and casing flowline connections   | Date and Hour of Occurrence:<br>11/06/2013 6:30am         | Date and Hour of Discovery:<br>11/06/2013 6:30am |
| Was Immediate Notice Given?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom?<br>Mike Burton- BLM Mike Bratcher-NM OCD |  |
| By Whom? Brian Wall  | Date and Hour 11/06/2013 1010                             |  |
| 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.\*: received call at 6:30am that well had broken bridle and had cause flow lines to be separated from well head. Had gang put in valves to prevent any further spills. Spill was mostly water some oil present. Water spilled was approx 6 bbls. Oil spilled was approx 15 gallons.

Describe Area Affected and Cleanup Action Taken.\*: spray to the north of well head and flowing leak to the south and east of well head. Approx 6 bbls fluid on ground. Had vacuum truck pick up what they were able. Recovered about 3 or 4 barrels of fluid.

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

|                                      |                                     |                                   |
|--------------------------------------|-------------------------------------|-----------------------------------|
| Signature:                           | OIL CONSERVATION DIVISION           |                                   |
| Printed Name: Brian Wall             | Signed By                           |                                   |
| Title: Construction Foreman (I)      | Approved by District Supervisor:    | MAR 10 2014                       |
| E-mail Address: bwall@linenergy.com  | Approval Date:                      | Expiration Date:                  |
| Date: 11/12/2013 Phone: 806-367-0645 | Conditions of Approval: Remediation | Attached <input type="checkbox"/> |

\* Attach Additional Sheets If Necessary

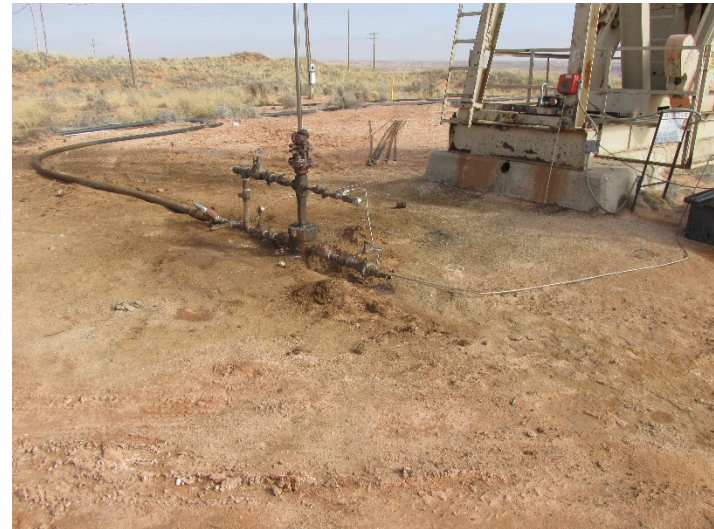
Per NMOCD Rules & Guidelines 2RP-2148



**Linn Energy Turner A #039**  
**Unit Letter N, Section 18, T17S R31E**



Site signage 12/09/13



Source of leak 12/09/13



Impacted area 12/13/13



Sample points 12/13/13



**Linn Energy Turner A #039**  
**Unit Letter N, Section 18, T17S R31E**



Excavated area 05/28/14



Excavated area SP3 thru SP5



Site at completion

# GROUND WATER SEARCH

Linn Energy Turner B North #103

UL:     N          Sec:     18          T:     17S          R:     31E    

Groundwater Depth:                     236                     ft.

- = NM Office of the State Engineer
- = U.S. Geological Survey (unknown well)
- ✗ = Site Location

Date: 04/03/14

By: Rebecca Pons

|  |                       |                                     |   |  |
|--|-----------------------|-------------------------------------|---|--|
|  |                       |                                     |   |  |
|  | 16S 30E               | 288'<br>314'<br><b>16S 31E</b> 295' | 65' 260' 265'<br>248' 275'<br><b>16S 32E</b> 254' 215'<br>210' 210'<br>221'<br>200' |  |
|  | 17S 30E               | ✗<br><b>17S 31E</b>                 | 132'<br><b>17S 32E</b>  |  |
|  | 44'<br><b>18S 30E</b> | 98'<br><b>18S 31E</b>               | 65' 430'<br><b>18S 32E</b> 460'   |  |
|  |                       |                                     |   |  |



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

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January 16, 2014

BRIAN WALL

LINN ENERGY

RR1, BOX 24 B

KINGFISHER, OK 73750

RE: TURNER A #39

Enclosed are the results of analyses for samples received by the laboratory on 12/13/13 13:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

LINN ENERGY  
 BRIAN WALL  
 RR1, BOX 24 B  
 KINGFISHER OK, 73750  
 Fax To: (405) 375-6693

Received: 12/13/2013  
 Reported: 01/16/2014  
 Project Name: TURNER A #39  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 12/13/2013  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Celey D. Keene

**Sample ID: SP1 @ SURFACE (H303021-01)**

| 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           | 12/18/2013 | ND              | 1.90 | 95.2       | 2.00          | 2.21 |           |
| Toluene*       | <0.050 | 0.050           | 12/18/2013 | ND              | 1.90 | 95.0       | 2.00          | 2.67 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/18/2013 | ND              | 1.88 | 93.8       | 2.00          | 4.04 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/18/2013 | ND              | 5.50 | 91.7       | 6.00          | 3.57 |           |
| Total BTEX     | <0.300 | 0.300           | 12/18/2013 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 89.4-126

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 2800   | 16.0            | 12/18/2013 | ND              | 432 | 108        | 400           | 3.77 |           |  |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: ms |     |            |               | S-06 |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <50.0  | 50.0            | 12/18/2013 | ND              | 206 | 103        | 200           | 6.55 |           |
| DRO >C10-C28 | 3050   | 50.0            | 12/18/2013 | ND              | 206 | 103        | 200           | 7.48 |           |

Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 174 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

LINN ENERGY  
 BRIAN WALL  
 RR1, BOX 24 B  
 KINGFISHER OK, 73750  
 Fax To: (405) 375-6693

Received: 12/13/2013  
 Reported: 01/16/2014  
 Project Name: TURNER A #39  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 12/13/2013  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Celey D. Keene

**Sample ID: SP2 @ SURFACE (H303021-02)**

| 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           | 12/18/2013 | ND              | 1.90 | 95.2       | 2.00          | 2.21 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/18/2013 | ND              | 1.90 | 95.0       | 2.00          | 2.67 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/18/2013 | ND              | 1.88 | 93.8       | 2.00          | 4.04 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/18/2013 | ND              | 5.50 | 91.7       | 6.00          | 3.57 |           |  |
| Total BTEx     | <0.300 | 0.300           | 12/18/2013 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 89.4-126

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 592    | 16.0            | 12/18/2013 | ND              | 432 | 108        | 400           | 3.77 |           |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: ms |     |            |               | S-06 |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <100   | 100             | 12/18/2013 | ND              | 206 | 103        | 200           | 6.55 |           |
| DRO >C10-C28 | 8900   | 100             | 12/18/2013 | ND              | 206 | 103        | 200           | 7.48 |           |

Surrogate: 1-Chlorooctane 115 % 65.2-140

Surrogate: 1-Chlorooctadecane 273 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

LINN ENERGY  
 BRIAN WALL  
 RR1, BOX 24 B  
 KINGFISHER OK, 73750  
 Fax To: (405) 375-6693

Received: 12/13/2013  
 Reported: 01/16/2014  
 Project Name: TURNER A #39  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 12/13/2013  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Celey D. Keene

**Sample ID: SP3 @ SURFACE (H303021-03)**

| 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           | 12/18/2013 | ND              | 1.90 | 95.2       | 2.00          | 2.21 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/18/2013 | ND              | 1.90 | 95.0       | 2.00          | 2.67 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/18/2013 | ND              | 1.88 | 93.8       | 2.00          | 4.04 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/18/2013 | ND              | 5.50 | 91.7       | 6.00          | 3.57 |           |  |
| Total BTEx     | <0.300 | 0.300           | 12/18/2013 | ND              |      |            |               |      |           |  |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 592    | 16.0            | 12/18/2013 | ND              | 432 | 108        | 400           | 3.77 |           |

| 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            | 12/18/2013 | ND              | 206 | 103        | 200           | 6.55 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 12/18/2013 | ND              | 206 | 103        | 200           | 7.48 |           |

Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

LINN ENERGY  
 BRIAN WALL  
 RR1, BOX 24 B  
 KINGFISHER OK, 73750  
 Fax To: (405) 375-6693

Received: 12/13/2013  
 Reported: 01/16/2014  
 Project Name: TURNER A #39  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 12/13/2013  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Celey D. Keene

**Sample ID: SP4 @ SURFACE (H303021-04)**

| 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           | 12/19/2013 | ND              | 2.01 | 101        | 2.00          | 1.95 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/19/2013 | ND              | 2.00 | 100        | 2.00          | 1.96 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/19/2013 | ND              | 1.97 | 98.7       | 2.00          | 1.62 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/19/2013 | ND              | 5.78 | 96.3       | 6.00          | 1.35 |           |  |
| Total BTEx     | <0.300 | 0.300           | 12/19/2013 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 89.4-126

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 2640   | 16.0            | 12/18/2013 | ND              | 432 | 108        | 400           | 3.77 |           |

| 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            | 12/18/2013 | ND              | 191 | 95.5       | 200           | 1.23  |           |
| DRO >C10-C28 | <10.0  | 10.0            | 12/18/2013 | ND              | 183 | 91.7       | 200           | 0.643 |           |

Surrogate: 1-Chlorooctane 121 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

LINN ENERGY  
 BRIAN WALL  
 RR1, BOX 24 B  
 KINGFISHER OK, 73750  
 Fax To: (405) 375-6693

Received: 12/13/2013  
 Reported: 01/16/2014  
 Project Name: TURNER A #39  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 12/13/2013  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Celey D. Keene

**Sample ID: SP5 @ SURFACE (H303021-05)**

| 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           | 12/19/2013 | ND              | 2.01 | 101        | 2.00          | 1.95 |           |
| Toluene*       | <0.050 | 0.050           | 12/19/2013 | ND              | 2.00 | 100        | 2.00          | 1.96 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/19/2013 | ND              | 1.97 | 98.7       | 2.00          | 1.62 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/19/2013 | ND              | 5.78 | 96.3       | 6.00          | 1.35 |           |
| Total BTX      | <0.300 | 0.300           | 12/19/2013 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 89.4-126

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | <16.0  | 16.0            | 12/18/2013 | ND              | 432 | 108        | 400           | 3.77 |           |

| 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            | 12/18/2013 | ND              | 191 | 95.5       | 200           | 1.23  |           |
| DRO >C10-C28 | <10.0  | 10.0            | 12/18/2013 | ND              | 183 | 91.7       | 200           | 0.643 |           |

Surrogate: 1-Chlorooctane 124 % 65.2-140

Surrogate: 1-Chlorooctadecane 121 % 63.6-154

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\*=Accredited Analyte

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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.         |
| 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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Celey D. Keene, Lab Director/Quality Manager



# CARDINAL Laboratories

## 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:     | Lim Energy     | P.O. #:  |  |
| Project Manager:  | Brian Wall     | Company: |  |
| Address:          |                | Attn:    |  |
| City:             |                | Address: |  |
| Phone #:          |                | City:    |  |
| Project #:        | Project Owner: | State:   |  |
| Project Name:     | Tutor B #39    | Zip:     |  |
| Project Location: |                | Phone #: |  |
| Sample Name:      | Miguel Gomez   | Fax #:   |  |

FOR LAB USE ONLY

| FOR LAB USE ONLY |    | Sample I.D.   | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX      |            |      |     |        |         |      | PRESERV. | SAMPLING |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
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| Lab I.D.         |    |               |                   |              | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | DATE |          | TIME     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
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|                  |    |               |                   |              |             |            |      |     |        |         |      |          |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

|                              |   |                        |  |
|------------------------------|---|------------------------|--|
| Relinquished By:             | Date: 12/13/13  | Received By:           |  |
| Miguel Gomez                 | Time: 1:10  |                        |  |
| Relinquished By:             | Date:   | Received By:           |  |
|                              | Time:   |                        |  |
| Delivered By: (Circle One)   | Sample Condition  | CHECKED BY: (Initials) |  |
| Sampler - UPS - Bus - Other: | Cool <input type="checkbox"/> Intact <input type="checkbox"/> |                        |  |
|                              | Yes <input type="checkbox"/> No <input type="checkbox"/>      |                        |  |

|               |                              |                             |                |
|---------------|------------------------------|-----------------------------|----------------|
| 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:

Bwall@Lim Energy.com  
Aruth@diversified.com

\* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

\* Project name changed as per Aug. 11/15/14 ch

April 09, 2014

BRIAN WALL

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: TURNER A #39

Enclosed are the results of analyses for samples received by the laboratory on 04/03/14 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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:**

LINN OPERATING-HOBBS  
 BRIAN WALL  
 2130 W. BENDER  
 HOBBS NM, 88240  
 Fax To: (575) 738-1740

Received: 04/03/2014  
 Reported: 04/09/2014  
 Project Name: TURNER A #39  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

Sampling Date: 04/02/2014  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP. 1 @ 1' (H401008-01)**

| 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           | 04/07/2014 | ND              | 1.99 | 99.3       | 2.00          | 3.19 |           |
| Toluene*       | <0.050 | 0.050           | 04/07/2014 | ND              | 2.02 | 101        | 2.00          | 2.90 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 04/07/2014 | ND              | 1.99 | 99.6       | 2.00          | 3.10 |           |
| Total Xylenes* | <0.150 | 0.150           | 04/07/2014 | ND              | 5.73 | 95.5       | 6.00          | 3.00 |           |
| Total BTX      | <0.300 | 0.300           | 04/07/2014 | ND              |      |            |               |      |           |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 368    | 16.0            | 04/07/2014 | ND              | 416 | 104        | 400           | 3.92 |           |  |

| 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            | 04/04/2014 | ND              | 163 | 81.4       | 200           | 1.36 |           |
| DRO >C10-C28 | 527    | 10.0            | 04/04/2014 | ND              | 181 | 90.3       | 200           | 2.70 |           |

Surrogate: 1-Chlorooctane 121 % 65.2-140

Surrogate: 1-Chlorooctadecane 121 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 LINN OPERATING-HOBBS  
 BRIAN WALL  
 2130 W. BENDER  
 HOBBS NM, 88240  
 Fax To: (575) 738-1740

 Received: 04/03/2014  
 Reported: 04/09/2014  
 Project Name: TURNER A #39  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/02/2014  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP. 2 @ 1' (H401008-02)**

| 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           | 04/07/2014 | ND              | 1.99 | 99.3       | 2.00          | 3.19 |           |
| Toluene*       | <0.050 | 0.050           | 04/07/2014 | ND              | 2.02 | 101        | 2.00          | 2.90 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 04/07/2014 | ND              | 1.99 | 99.6       | 2.00          | 3.10 |           |
| Total Xylenes* | <0.150 | 0.150           | 04/07/2014 | ND              | 5.73 | 95.5       | 6.00          | 3.00 |           |
| Total BTX      | <0.300 | 0.300           | 04/07/2014 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 117 % 89.4-126

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 1710   | 16.0            | 04/07/2014 | ND              | 416 | 104        | 400           | 3.92 |           |

| 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            | 04/04/2014 | ND              | 163 | 81.4       | 200           | 1.36 |           |
| DRO >C10-C28 | 56.0   | 10.0            | 04/04/2014 | ND              | 181 | 90.3       | 200           | 2.70 |           |

Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

LINN OPERATING-HOBBS  
 BRIAN WALL  
 2130 W. BENDER  
 HOBBS NM, 88240  
 Fax To: (575) 738-1740

Received: 04/03/2014  
 Reported: 04/09/2014  
 Project Name: TURNER A #39  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

Sampling Date: 04/02/2014  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP. 3 @ 2' (H401008-03)**

| 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           | 04/07/2014 | ND              | 1.99 | 99.3       | 2.00          | 3.19 |           |
| Toluene*       | <0.050 | 0.050           | 04/07/2014 | ND              | 2.02 | 101        | 2.00          | 2.90 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 04/07/2014 | ND              | 1.99 | 99.6       | 2.00          | 3.10 |           |
| Total Xylenes* | <0.150 | 0.150           | 04/07/2014 | ND              | 5.73 | 95.5       | 6.00          | 3.00 |           |
| Total BTX      | <0.300 | 0.300           | 04/07/2014 | ND              |      |            |               |      |           |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 128    | 16.0            | 04/07/2014 | ND              | 416 | 104        | 400           | 3.92 |           |

| 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            | 04/04/2014 | ND              | 163 | 81.4       | 200           | 1.36 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 04/04/2014 | ND              | 181 | 90.3       | 200           | 2.70 |           |

Surrogate: 1-Chlorooctane 118 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 LINN OPERATING-HOBBS  
 BRIAN WALL  
 2130 W. BENDER  
 HOBBS NM, 88240  
 Fax To: (575) 738-1740

 Received: 04/03/2014  
 Reported: 04/09/2014  
 Project Name: TURNER A #39  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/02/2014  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP. 4 @ 2' (H401008-04)**

| 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           | 04/07/2014 | ND              | 1.99 | 99.3       | 2.00          | 3.19 |           |
| Toluene*       | <0.050 | 0.050           | 04/07/2014 | ND              | 2.02 | 101        | 2.00          | 2.90 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 04/07/2014 | ND              | 1.99 | 99.6       | 2.00          | 3.10 |           |
| Total Xylenes* | <0.150 | 0.150           | 04/07/2014 | ND              | 5.73 | 95.5       | 6.00          | 3.00 |           |
| Total BTX      | <0.300 | 0.300           | 04/07/2014 | ND              |      |            |               |      |           |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 80.0   | 16.0            | 04/07/2014 | ND              | 416 | 104        | 400           | 3.92 |           |

| 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            | 04/04/2014 | ND              | 163 | 81.4       | 200           | 1.36 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 04/04/2014 | ND              | 181 | 90.3       | 200           | 2.70 |           |

Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 116 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 LINN OPERATING-HOBBS  
 BRIAN WALL  
 2130 W. BENDER  
 HOBBS NM, 88240  
 Fax To: (575) 738-1740

 Received: 04/03/2014  
 Reported: 04/09/2014  
 Project Name: TURNER A #39  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/02/2014  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP. 5 @ 2' (H401008-05)**

| 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           | 04/07/2014 | ND              | 1.99 | 99.3       | 2.00          | 3.19 |           |
| Toluene*       | <0.050 | 0.050           | 04/07/2014 | ND              | 2.02 | 101        | 2.00          | 2.90 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 04/07/2014 | ND              | 1.99 | 99.6       | 2.00          | 3.10 |           |
| Total Xylenes* | <0.150 | 0.150           | 04/07/2014 | ND              | 5.73 | 95.5       | 6.00          | 3.00 |           |
| Total BTX      | <0.300 | 0.300           | 04/07/2014 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 115 % 89.4-126

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 04/07/2014 | ND              | 416 | 104        | 400           | 3.92 |           |

| 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            | 04/04/2014 | ND              | 163 | 81.4       | 200           | 1.36 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 04/04/2014 | ND              | 181 | 90.3       | 200           | 2.70 |           |

Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Lin Energy  
Project Manager: Brian Will  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
Project #: \_\_\_\_\_ Project Owner: \_\_\_\_\_  
Project Name: \_\_\_\_\_  
Project Location: Turner A 39 Eddy CO  
Sampler Name: Michael, Amy  
FOR LAB USE ONLY

P.O. #: \_\_\_\_\_  
Company: Lin Energy  
Attn: Brian Will  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX      |            |      |     |        |         | DATE   | TIME  |   |   |   |  |  |  |  |  |  |  |
|----------|-------------|-------------------|--------------|-------------|------------|------|-----|--------|---------|--------|-------|---|---|---|--|--|--|--|--|--|--|
|          |             |                   |              | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : |        |       |   |   |   |  |  |  |  |  |  |  |
| H4D1008  | 1           | SP.101            | 8            | X           |            |      |     |        |         | 4/2/14 | 9:05  | X | X | X |  |  |  |  |  |  |  |
|          | 2           | SP.201            | 8            | X           |            |      |     |        |         | 4/2/14 | 10:05 | X | X | X |  |  |  |  |  |  |  |
|          | 3           | SP.302            | 8            | X           |            |      |     |        |         | 4/2/14 | 10:50 | X | X | X |  |  |  |  |  |  |  |
|          | 4           | SP.402            | 8            | X           |            |      |     |        |         | 4/2/14 | 10:30 | X | X | X |  |  |  |  |  |  |  |
|          | 5           | SP.502            | 8            | X           |            |      |     |        |         | 4/2/14 | 11:15 | X | X | X |  |  |  |  |  |  |  |

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Relinquished By: \_\_\_\_\_

Received By: \_\_\_\_\_

Date: 4/2/14  
Time: 8:00

Date: 4/2/14  
Time: 8:00

Date: \_\_\_\_\_

Received By: \_\_\_\_\_

Delivered By: (Circle One)

Sampler - UPS - Bus - Other: \_\_\_\_\_

Sample Condition  
Cool ☒ Intact ☒  
Yes ☒ No ☒

CHECKED BY: \_\_\_\_\_  
(Initials)

Phone Result: ☐ Yes ☐ No Add'l Phone #: \_\_\_\_\_  
Fax Result: ☐ Yes ☐ No Add'l Fax #: \_\_\_\_\_

REMARKS:

E-mail Results To:

Ngladden@diversifiedfsi.com  
Rpons@diversifiedfsi.com  
Tjennings@diversifiedfsi.com



April 22, 2014

BRIAN WALL

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: TURNER A #39

Enclosed are the results of analyses for samples received by the laboratory on 04/14/14 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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:**

LINN OPERATING-HOBBS  
 BRIAN WALL  
 2130 W. BENDER  
 HOBBS NM, 88240  
 Fax To: (575) 738-1740

Received: 04/14/2014  
 Reported: 04/22/2014  
 Project Name: TURNER A #39  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

Sampling Date: 04/14/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 3' (H401126-01)**

| BTX 8021B      |        |                 | mg/kg      |              | Analyzed By: CK |            |               |      |           |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 04/17/2014 | ND           | 2.68            | 134        | 2.00          | 12.6 |           |
| Toluene*       | <0.050 | 0.050           | 04/17/2014 | ND           | 2.55            | 127        | 2.00          | 13.1 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 04/17/2014 | ND           | 2.53            | 126        | 2.00          | 14.0 |           |
| Total Xylenes* | <0.150 | 0.150           | 04/17/2014 | ND           | 7.29            | 122        | 6.00          | 13.9 |           |
| Total BTX      | <0.300 | 0.300           | 04/17/2014 | ND           |                 |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 119 % 89.4-126

| Chloride, SM4500Cl-B |        |                 | mg/kg      |              | Analyzed By: AP |            |               |      |           |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 368    | 16.0            | 04/16/2014 | ND           | 400             | 100        | 400           | 3.92 |           |

| 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            | 04/16/2014 | ND           | 199             | 99.3       | 200           | 1.82 |           |
| DRO >C10-C28 | 18.0   | 10.0            | 04/16/2014 | ND           | 218             | 109        | 200           | 2.81 |           |

Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.3 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

LINN OPERATING-HOBBS  
 BRIAN WALL  
 2130 W. BENDER  
 HOBBS NM, 88240  
 Fax To: (575) 738-1740

Received: 04/14/2014  
 Reported: 04/22/2014  
 Project Name: TURNER A #39  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

Sampling Date: 04/14/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 3' (H401126-02)**

| BTEX 8021B        |             | mg/kg           |            | Analyzed By: CK |      |            |               |      |           |
|-------------------|-------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte           | Result      | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*          | <0.050      | 0.050           | 04/17/2014 | ND              | 2.68 | 134        | 2.00          | 12.6 |           |
| <b>Toluene*</b>   | <b>2.80</b> | 0.050           | 04/17/2014 | ND              | 2.55 | 127        | 2.00          | 13.1 |           |
| Ethylbenzene*     | <0.050      | 0.050           | 04/17/2014 | ND              | 2.53 | 126        | 2.00          | 14.0 |           |
| Total Xylenes*    | <0.150      | 0.150           | 04/17/2014 | ND              | 7.29 | 122        | 6.00          | 13.9 |           |
| <b>Total BTEX</b> | <b>2.80</b> | 0.300           | 04/17/2014 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 120 % 89.4-126

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 128    | 16.0            | 04/16/2014 | ND              | 400 | 100        | 400           | 3.92 |           |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: ms |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <100   | 100             | 04/16/2014 | ND              | 199 | 99.3       | 200           | 1.82 |           |
| DRO >C10-C28 | <100   | 100             | 04/16/2014 | ND              | 218 | 109        | 200           | 2.81 |           |

Surrogate: 1-Chlorooctane 97.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



## Page 5 of 5

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 #54



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

June 06, 2014

BRIAN WALL

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: TURNER A #39

Enclosed are the results of analyses for samples received by the laboratory on 05/30/14 13:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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,

A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder

Organic Supervisor



**Analytical Results For:**

LINN OPERATING-HOBBS  
 BRIAN WALL  
 2130 W. BENDER  
 HOBBS NM, 88240  
 Fax To: (575) 738-1740

Received: 05/30/2014  
 Reported: 06/06/2014  
 Project Name: TURNER A #39  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

Sampling Date: 05/28/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: BS 1 @ 1' (H401671-01)**

| 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           | 06/05/2014 | ND               | 1.92 | 95.8       | 2.00          | 0.523 |           |
| Toluene*       | <0.050 | 0.050           | 06/05/2014 | ND               | 2.04 | 102        | 2.00          | 0.675 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/05/2014 | ND               | 1.83 | 91.6       | 2.00          | 0.338 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/05/2014 | ND               | 5.80 | 96.7       | 6.00          | 0.173 |           |
| Total BTEX     | <0.300 | 0.300           | 06/05/2014 | ND               |      |            |               |       |           |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 160    | 16.0            | 06/05/2014 | ND              | 400 | 100        | 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   | <50.0  | 50.0            | 06/06/2014 | ND              | 133 | 66.4       | 200           | 7.86 |           |
| DRO >C10-C28 | <50.0  | 50.0            | 06/06/2014 | ND              | 148 | 73.9       | 200           | 11.8 |           |

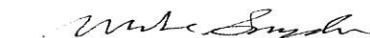
Surrogate: 1-Chlorooctane 96.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 119 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder, Organic Supervisor

**Analytical Results For:**

LINN OPERATING-HOBBS  
 BRIAN WALL  
 2130 W. BENDER  
 HOBBS NM, 88240  
 Fax To: (575) 738-1740

Received: 05/30/2014  
 Reported: 06/06/2014  
 Project Name: TURNER A #39  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

Sampling Date: 05/28/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SW 1 NORTH (H401671-02)**

| 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           | 06/06/2014       | ND           | 1.92 | 95.8       | 2.00          | 0.523 |           |  |
| Toluene*       | <0.050 | 0.050           | 06/06/2014       | ND           | 2.04 | 102        | 2.00          | 0.675 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 06/06/2014       | ND           | 1.83 | 91.6       | 2.00          | 0.338 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 06/06/2014       | ND           | 5.80 | 96.7       | 6.00          | 0.173 |           |  |
| Total BTEX     | <0.300 | 0.300           | 06/06/2014       | ND           |      |            |               |       |           |  |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 06/05/2014 | ND              | 400 | 100        | 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            | 06/06/2014 | ND              | 133 | 66.4       | 200           | 7.86 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 06/06/2014 | ND              | 148 | 73.9       | 200           | 11.8 |           |

Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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Mike Snyder, Organic Supervisor

**Analytical Results For:**

LINN OPERATING-HOBBS  
 BRIAN WALL  
 2130 W. BENDER  
 HOBBS NM, 88240  
 Fax To: (575) 738-1740

Received: 05/30/2014  
 Reported: 06/06/2014  
 Project Name: TURNER A #39  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

Sampling Date: 05/28/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SW 2 WEST (H401671-03)**

| 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           | 06/06/2014 | ND               | 1.92 | 95.8       | 2.00          | 0.523 |           |
| Toluene*       | <0.050 | 0.050           | 06/06/2014 | ND               | 2.04 | 102        | 2.00          | 0.675 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/06/2014 | ND               | 1.83 | 91.6       | 2.00          | 0.338 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/06/2014 | ND               | 5.80 | 96.7       | 6.00          | 0.173 |           |
| Total BTEX     | <0.300 | 0.300           | 06/06/2014 | ND               |      |            |               |       |           |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 816    | 16.0            | 06/05/2014 | ND              | 400 | 100        | 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            | 06/06/2014 | ND              | 133 | 66.4       | 200           | 7.86 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 06/06/2014 | ND              | 148 | 73.9       | 200           | 11.8 |           |

Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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Mike Snyder, Organic Supervisor

**Analytical Results For:**

LINN OPERATING-HOBBS  
 BRIAN WALL  
 2130 W. BENDER  
 HOBBS NM, 88240  
 Fax To: (575) 738-1740

Received: 05/30/2014  
 Reported: 06/06/2014  
 Project Name: TURNER A #39  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

Sampling Date: 05/28/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SW 3 SOUTH (H401671-04)**

| 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           | 06/06/2014 | ND               | 1.92 | 95.8       | 2.00          | 0.523 |           |
| Toluene*       | <0.050 | 0.050           | 06/06/2014 | ND               | 2.04 | 102        | 2.00          | 0.675 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/06/2014 | ND               | 1.83 | 91.6       | 2.00          | 0.338 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/06/2014 | ND               | 5.80 | 96.7       | 6.00          | 0.173 |           |
| Total BTEX     | <0.300 | 0.300           | 06/06/2014 | ND               |      |            |               |       |           |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 128    | 16.0            | 06/05/2014 | ND              | 400 | 100        | 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            | 06/06/2014 | ND              | 133 | 66.4       | 200           | 7.86 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 06/06/2014 | ND              | 148 | 73.9       | 200           | 11.8 |           |

Surrogate: 1-Chlorooctane 100 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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Mike Snyder, Organic Supervisor



**Analytical Results For:**

LINN OPERATING-HOBBS  
 BRIAN WALL  
 2130 W. BENDER  
 HOBBS NM, 88240  
 Fax To: (575) 738-1740

Received: 05/30/2014  
 Reported: 06/06/2014  
 Project Name: TURNER A #39  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

Sampling Date: 05/30/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SW 4 EAST (H401671-05)**

| 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           | 06/06/2014       | ND           | 1.92 | 95.8       | 2.00          | 0.523 |           |
| Toluene*       | <0.050 | 0.050           | 06/06/2014       | ND           | 2.04 | 102        | 2.00          | 0.675 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/06/2014       | ND           | 1.83 | 91.6       | 2.00          | 0.338 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/06/2014       | ND           | 5.80 | 96.7       | 6.00          | 0.173 |           |
| Total BTEX     | <0.300 | 0.300           | 06/06/2014       | ND           |      |            |               |       |           |

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

| Chloride, SM4500Cl-B |        | mg/kg           | Analyzed By: AP |              |     |            |               |      |           |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 176    | 16.0            | 06/05/2014      | ND           | 400 | 100        | 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            | 06/06/2014      | ND           | 133 | 66.4       | 200           | 7.86 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 06/06/2014      | ND           | 148 | 73.9       | 200           | 11.8 |           |

Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder, Organic Supervisor

**Notes and Definitions**

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

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Mike Snyder, Organic Supervisor





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:

Project Manager:

Address:

City:

Phone #:

Project #:

Project Name:

Project Location:

Sampler Name:

P.O. #:

Company: *Lin Energy*

Attn: *Green Wall*

Address:

City:

State:

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

*H401671*

*1 BS 1 @ 1'*  
*2 SOIL Depth*  
*3 SOIL West*  
*4 SOIL South*  
*5 SOIL East*

(G)RAB OR (C)OMP

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER

ACID/BASE

ICE / COOL

OTHER

DATE TIME

*5/28/14 9:00*  
*5/28/14 9:30*  
*5/28/14 10:00*  
*5/28/14 10:30*  
*5/29/14 8:00*

CL TML STEW

*X*  
*X*  
*X*  
*X*  
*X*

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Reinquinshed By:

Refinquinshed By:

Date/Time: *5/29/14 1:50*

Received By: *Michael Jensen*

Date:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

Cool ☒ Intact ☒  
Dry ☒ Wet ☒  
No ☐ Yes ☐

CHECKED BY: *gjt*

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

REMARKS:

E-mail Results To:

*Ngladden@diversifiedfsi.com*

*Rpons@diversifiedfsi.com*  
*Tjennings@diversifiedfsi.com*

## Natalie Gladden

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**From:** Van Curen, Jennifer <jvancure@blm.gov>  
**Sent:** Monday, May 12, 2014 11:02 AM  
**To:** Natalie Gladden  
**Subject:** Re: FW: Turner A #39

Natalie,

Your plan is approved. Thanks

JENNIFER E VAN CUREN  
ENVIRONMENTAL PROTECTION SPECIALIST  
DOI-BLM-CARLSBAD FIELD OFFICE  
320 E GREENE ST. CARLSBAD, NM 88220  
OFFICE- 575-234-5905  
CELL - 575-361-0042  
FAX - 575-234-5927

"There are known knowns. These are things we know that we know. There are known unknowns. That is to say, there are things that we know we don't know." Jim Perry

On Mon, May 12, 2014 at 9:27 AM, Natalie Gladden <[ngladden@diversifiedfsi.com](mailto:ngladden@diversifiedfsi.com)> wrote:

Good Morning Jennifer,

I hope you had a great weekend! I was wondering if you have had a chance to look at the attached work-plan?

Your help is greatly appreciated.

*Natalie Gladden*

ENVIRONMENTAL DIRECTOR

DFSI ENVIRONMENTAL SERVICES

CELL: 575-602-1786

OFFICE: 575-964-8394

**FAX: 575-964-8396**

**EMAIL: [ngladden@diversifiedfsi.com](mailto:ngladden@diversifiedfsi.com)**

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**From:** Natalie Gladden  
**Sent:** Thursday, April 24, 2014 11:14 AM  
**To:** Van Curen, Jennifer; James Amos

**Cc:** Michael Patterson  
**Subject:** Turner A #39

Please see the attached Remediation Work Plan for the Linn Energy Turner A #39. If you have any questions please contact me.

Thank you and have a great day.

*Natalie Gladden*

**ENVIRONMENTAL DIRECTOR**

**DFSI ENVIRONMENTAL SERVICES**

**CELL: 575-602-1786**

**OFFICE: 575-964-8394**

**FAX: 575-964-8396**

**EMAIL: [ngladden@diversifiedfsi.com](mailto:ngladden@diversifiedfsi.com)**



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**From:** Rebecca Pons  
**Sent:** Thursday, April 24, 2014 10:09 AM  
**To:** Natalie Gladden  
**Cc:** Michael Patterson  
**Subject:** Turner A #39

Good Morning, I have attached the final draft of the remediation plan for the above Linn Energy Site. Please review and if you concur with its submittal to the BLM and NMOCD please forward to the concerned parties.

Thank you and have a great day!

*Rebecca Pons*

Project Scientist

DFSI Environmental Division

Phone (575)964-8394

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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised August 8, 2011

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

## Release Notification and Corrective Action

### OPERATOR

☐ Initial Report ☒ Final Report

|   |                             |                      |
|---|-----------------------------|----------------------|
| Name of Company: Linn Operating, Inc.   | Contact: Brian Wall         |                      |
| Address: 2130 W. Bender Hobbs, NM 88240 | Telephone No. 575-738-1739  |                      |
| Facility Name: Turner A #39             | Facility Type: Oil Producer |                      |
| Surface Owner Federal                   | Mineral Owner Federal       | API No. 30-015-28770 |

### LOCATION OF RELEASE

|                  |               |                 |              |                       |                           |                   |                        |             |
|------------------|---------------|-----------------|--------------|-----------------------|---------------------------|-------------------|------------------------|-------------|
| Unit Letter<br>N | Section<br>18 | Township<br>17S | Range<br>31E | Feet from the<br>1310 | North/South Line<br>North | Feet from<br>2300 | East/West Line<br>West | County Eddy |
|------------------|---------------|-----------------|--------------|-----------------------|---------------------------|-------------------|------------------------|-------------|

Latitude: 32.8308687811363 Longitude -103.909398556665

### NATURE OF RELEASE

|  |   |  |
|--|---|--|
| Type of Release: Produced water/crude  | Volume of Release 6bbls/15gal                             | Volume Recovered 3bbls/10gal                       |
| Source of Release:   | Date and Hour of Occurrence<br>11/06/13 6:30 A.M.         | Date and Hour of Discovery 11/06/2013<br>6:30 A.M. |
| Was Immediate Notice Given?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required   | If YES, To Whom?<br>Mike Burton-BLM Mike Bratcher- NM OCD |  |
| By Whom? Brian Wall  | Date and Hour: 11/06/2013 1010                            |  |
| 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.*<br>NA  |   |  |
| Describe Cause of Problem and Remedial Action Taken.* <input type="checkbox"/> The construction foreman received a call at 6:30 A.M. that the well had a broken bridle and had caused flow lines to be separated from the well head. He had a gang put in valves to prevent any further impact. The spill was mostly water with some oil present. The volume of produced water was approximately 6bbls of fluid on the ground  |   |  |
| Describe Area Affected and Cleanup Action Taken. The construction foreman arranged for a vacuum truck to recover approximately 3 to 4 bbls of fluid. The area impacted measured 2,952 sq. ft. of pad. DFSI was retained to remediate the site.   |   |  |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. |   |  |
| Signature: <i>Fred B Wall</i>  |   | <b><u>OIL CONSERVATION DIVISION</u></b>            |
| Printed Name: Brian Wall   |   | Approved by Environmental Specialist:              |
| Title: Construction Foreman II   | Approval Date:  | Expiration Date:                                   |
| E-mail Address: bwall@linenergy.com  | Conditions of Approval:                                   |  |
| Date: 06/10/14 Phone: 806-367-0645   | Attached <input type="checkbox"/>                         |  |

\* Attach Additional Sheets If Necessary