

## Bratcher, Mike, EMNRD

---

**From:** Amy Ruth <aruth@diversifiedfsi.com>  
**Sent:** Tuesday, July 30, 2013 2:15 PM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** gawink@linnenergy.com  
**Subject:** Linn Energy H.E. West B #2 Battery  
**Attachments:** Linn H.E#2 Battery Site Diagram.pdf; Linn H.E#2 Battery Photo Page.pdf; H301577 LINN exc bottom at 3 ft.pdf

**Importance:** High

Hi Mike,

This data is in reference to 2RP-1189 and 2RP-950 events at the battery (BLM #NU12136TG). The area within the firewall was previously excavated to about 1.5 ft bgs by Etech. DFSI deepened the excavation to near 3 ft bgs recently and the bottom lab data is attached. On behalf of Linn Energy, DFSI would like permission to backfill the battery for safety reasons, as the tanks are unsupported and the foundation soil beneath the caliche is sand. A study of groundwater through the USGS and NM Office of the State Engineer shows the nearest wells to be 5 miles away. According to the NMOCD groundwater trend map, depth to groundwater in this area is near 300 ft bgs. A report detailing plans for further investigation and future corrective action at the battery will follow. Please call me with any questions.

Thank you,

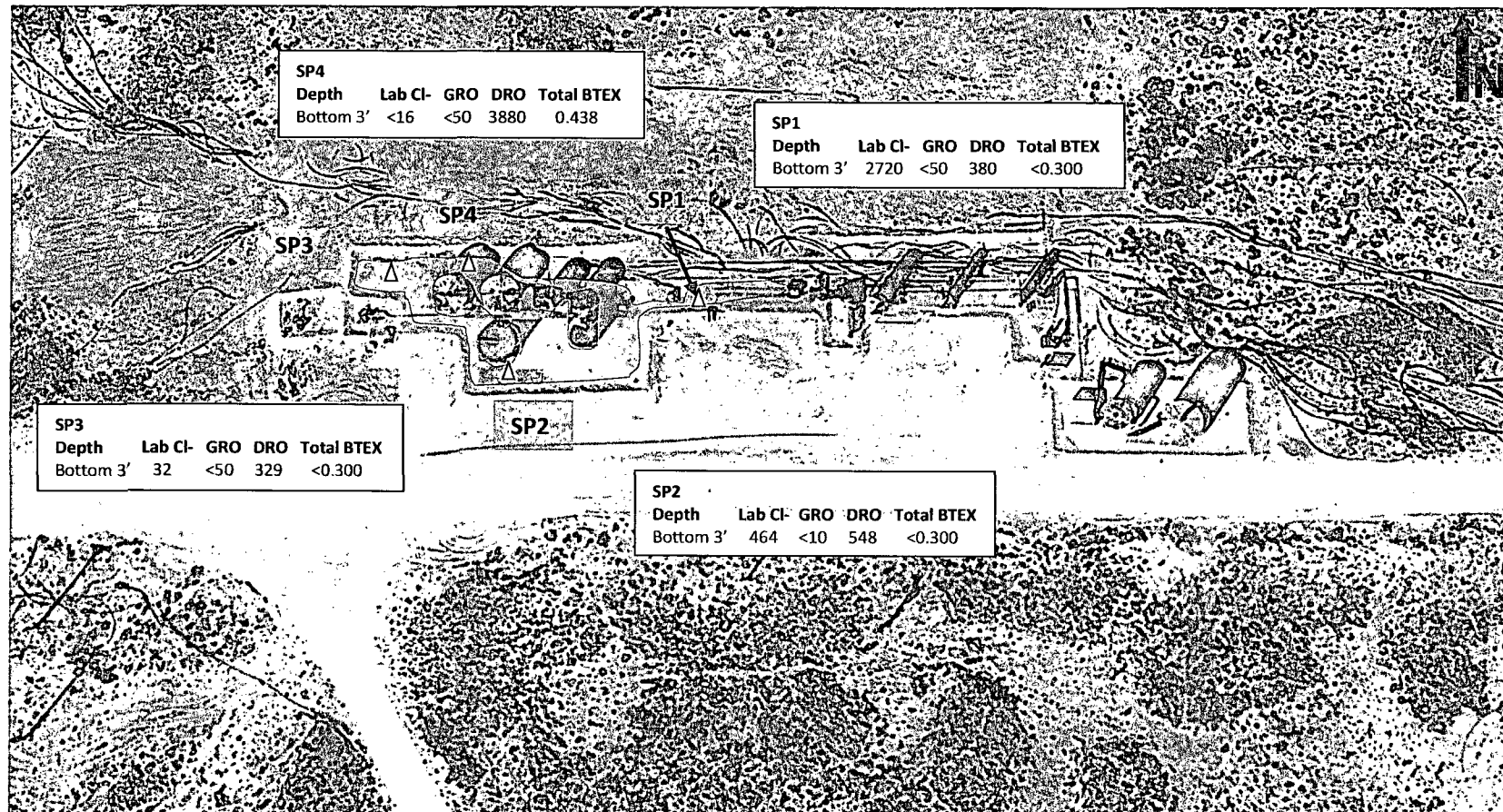
*Amy C. Ruth*

Diversified Field Services, Inc.  
315 S. Leech St.  
Hobbs, NM 88240  
Office: (575)397-6437  
Mobile: (575)390-5454  
Fax: (575)393-2981

*"Nothing will work unless you do." -Maya Angelou*

This email and any files transmitted with it are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you have received this email in error please notify the system manager. This message contains confidential information and is intended only for the individual named. If you are not the named addressee you should not disseminate, distribute or copy this e-mail. Please notify the sender immediately by e-mail if you have received this e-mail by mistake and delete this e-mail from your system. If you are not the intended recipient you are notified that disclosing, copying, distributing or taking any action in reliance on the contents of this information is strictly prohibited.

# Site Sample Data



Diversified Field Services, Inc.

C.C. & Co, LLC

J & M Welding and Fabrication, Inc.

Diversified Construction

## Legend

□ Stained Area (total 5,145 ft<sup>2</sup>)

△ Sample Point

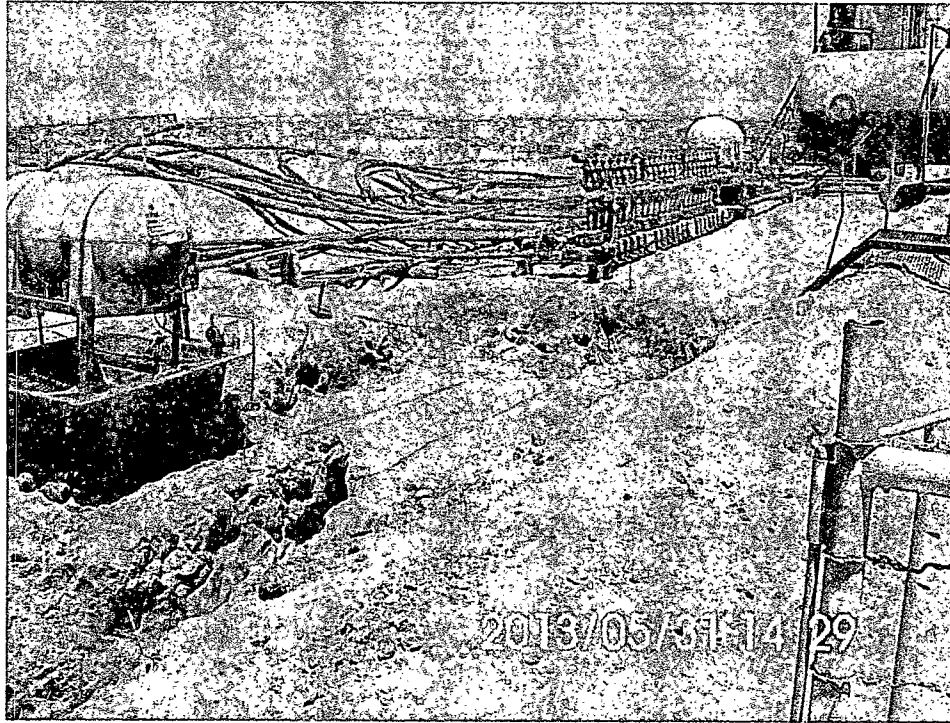
Landowner: BLM  
Depth to GW: 236 ft

## Linn H.E. West B #2 Battery

UL/G, Sec 8, T17S R31E  
Eddy County, NM  
Drafted By: A.C. Ruth, 7/25/13  
Not to Scale

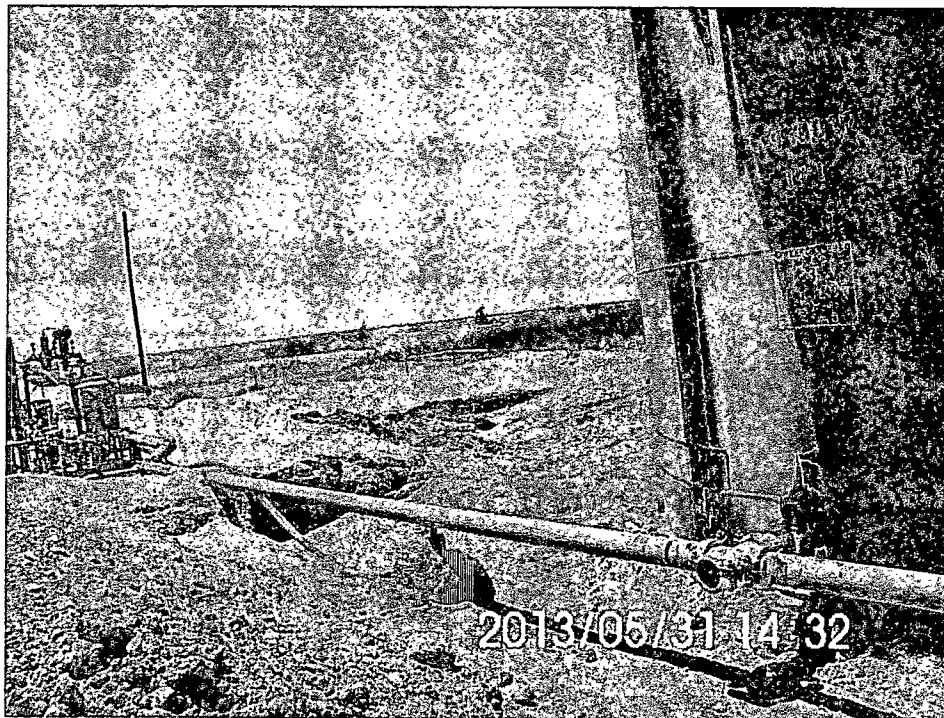
# Linn Energy H.E. West B #2 Battery

Unit Letter D, Section 9, T17S R31E



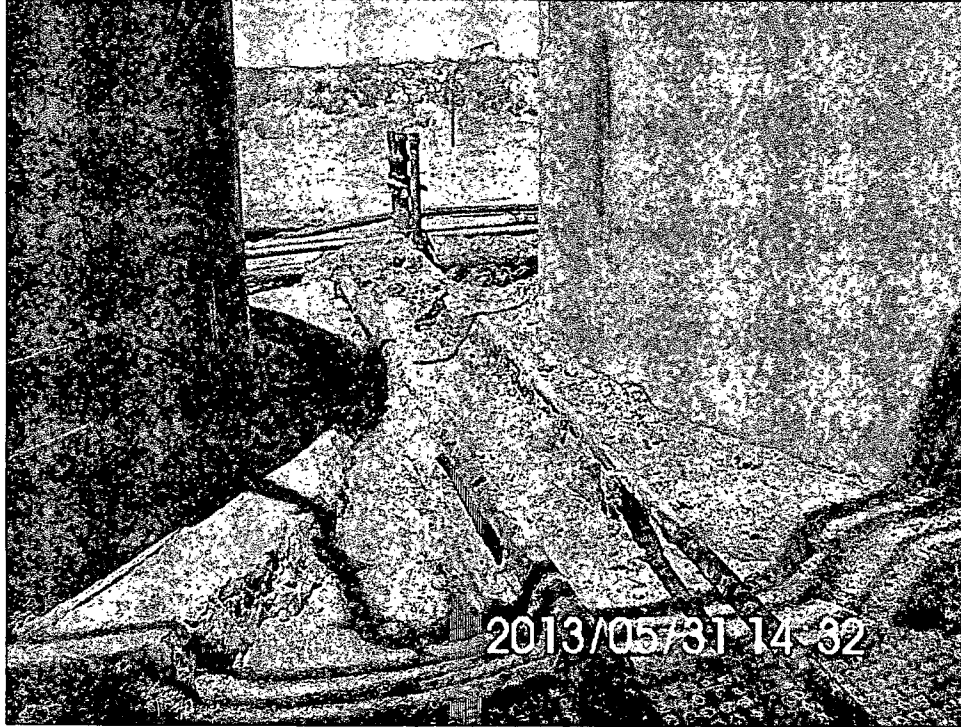
Existing excavation prior to new excavation, facing northeast

5/31/13



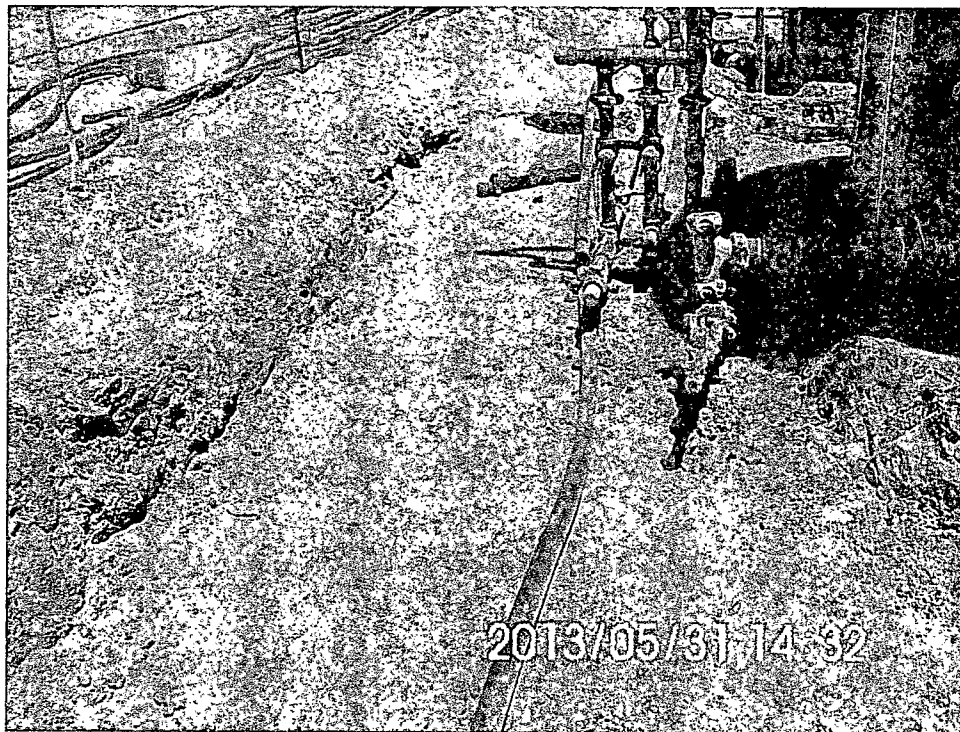
Existing excavation prior to new excavation, facing west

5/31/13



Existing excavation prior to new excavation, facing north

5/31/13



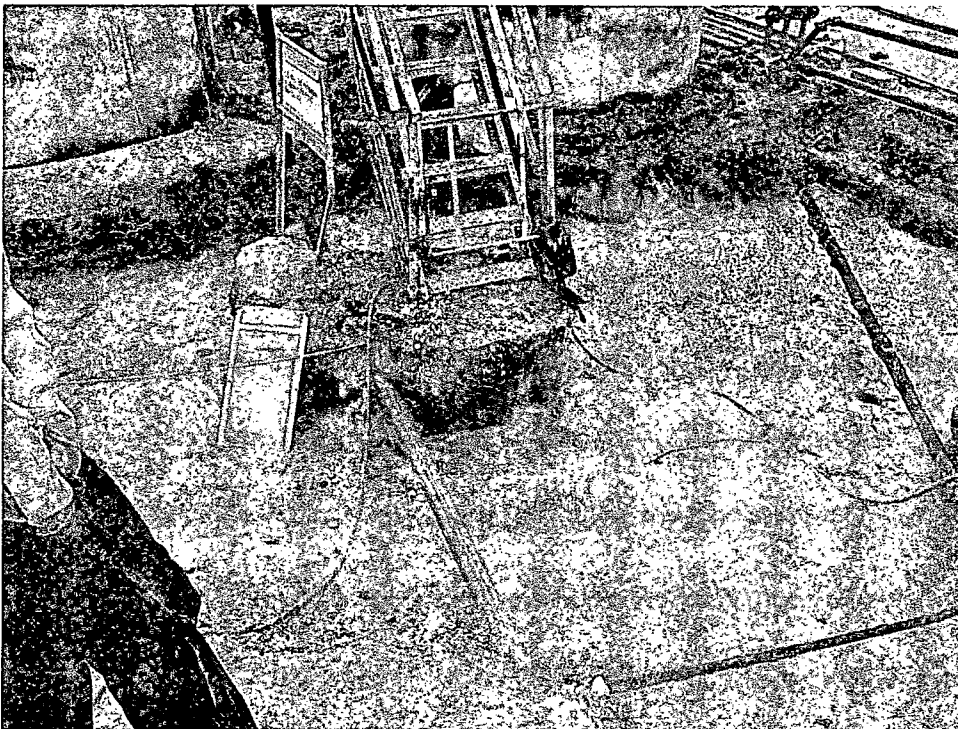
Existing excavation prior to new excavation, facing east

5/31/13



Existing excavation prior to new excavation, facing east

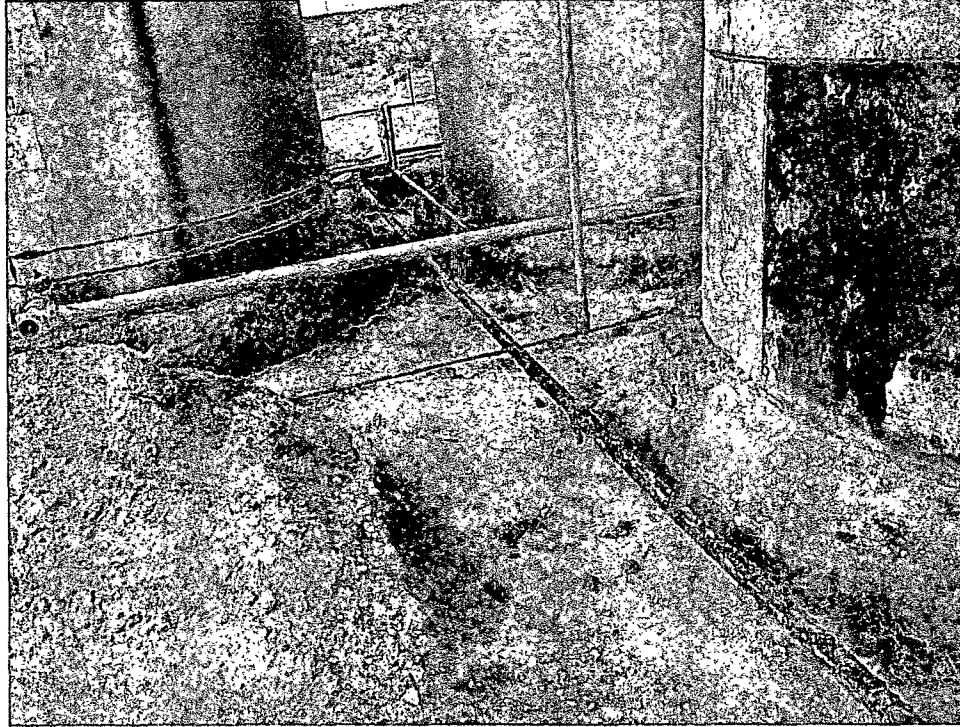
5/31/13



After recent excavation, facing northwest

7/25/13





After recent excavation, facing north 7/25/13



After recent excavation, facing northeast 7/25/13

July 12, 2013

GARY WINK

LINN ENERGY

RR1, BOX 24 B

KINGFISHER, OK 73750

RE: WEST B 2 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/03/13 16:00.

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

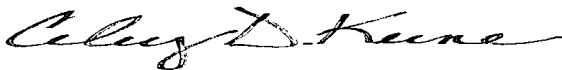
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

|                  |                              |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5)     |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3)  |

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

|                   |                  |                     |               |
|-------------------|------------------|---------------------|---------------|
| Received:         | 07/03/2013       | Sampling Date:      | 07/01/2013    |
| Reported:         | 07/12/2013       | Sampling Type:      | Soil          |
| Project Name:     | WEST B 2 BATTERY | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN       | Sample Received By: | Jodi Henson   |
| Project Location: | NOT GIVEN        |                     |               |

**Sample ID: SP 1 BOTTOM 3' (H301577-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: DW |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 07/11/2013 | ND              | 2.51 | 126        | 2.00          | 7.67 |           |
| Toluene*       | <0.050 | 0.050           | 07/11/2013 | ND              | 2.43 | 122        | 2.00          | 8.28 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/11/2013 | ND              | 2.50 | 125        | 2.00          | 9.23 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/11/2013 | ND              | 7.47 | 124        | 6.00          | 8.81 |           |
| Total BTEX     | <0.300 | 0.300           | 07/11/2013 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 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             | 2720   | 16.0            | 07/10/2013 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <50.0  | 50.0            | 07/10/2013 | ND              | 202 | 101        | 200           | 7.87 |           |
| DRO >C10-C28 | 380    | 50.0            | 07/10/2013 | ND              | 205 | 103        | 200           | 9.74 |           |

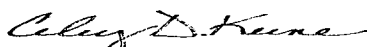
Surrogate: 1-Chlorooctane 90.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 129 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received: 07/03/2013  
 Reported: 07/12/2013  
 Project Name: WEST B 2 BATTERY  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 07/01/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 BOTTOM 3' (H301577-02)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: DW |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 07/09/2013 | ND              | 2.51 | 126        | 2.00          | 7.67 |           |  |
| Toluene*       | <0.050 | 0.050           | 07/09/2013 | ND              | 2.43 | 122        | 2.00          | 8.28 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 07/09/2013 | ND              | 2.50 | 125        | 2.00          | 9.23 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 07/09/2013 | ND              | 7.47 | 124        | 6.00          | 8.81 |           |  |
| Total BTX      | <0.300 | 0.300           | 07/09/2013 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 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             | 464    | 16.0            | 07/10/2013 | ND              | 416 | 104        | 400           | 0.00 |           |
| TPH 8015M            |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |

| 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            | 07/10/2013 | ND              | 202 | 101        | 200           | 7.87 |           |
| DRO >C10-C28 | 548    | 10.0            | 07/10/2013 | ND              | 205 | 103        | 200           | 9.74 |           |

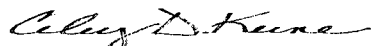
Surrogate: 1-Chlorooctane 93.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

|                   |                  |                     |               |
|-------------------|------------------|---------------------|---------------|
| Received:         | 07/03/2013       | Sampling Date:      | 07/01/2013    |
| Reported:         | 07/12/2013       | Sampling Type:      | Soil          |
| Project Name:     | WEST B 2 BATTERY | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN       | Sample Received By: | Jodi Henson   |
| Project Location: | NOT GIVEN        |                     |               |

**Sample ID: SP 3 BOTTOM 3' (H301577-03)**

| BTEX 8021B     |        |                 | mg/kg      |              | Analyzed By: DW |            |               |      |           |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 07/09/2013 | ND           | 2.51            | 126        | 2.00          | 7.67 |           |
| Toluene*       | <0.050 | 0.050           | 07/09/2013 | ND           | 2.43            | 122        | 2.00          | 8.28 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/09/2013 | ND           | 2.50            | 125        | 2.00          | 9.23 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/09/2013 | ND           | 7.47            | 124        | 6.00          | 8.81 |           |
| Total BTEX     | <0.300 | 0.300           | 07/09/2013 | ND           |                 |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 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             | 32.0   | 16.0            | 07/10/2013 | ND           | 416             | 104        | 400           | 0.00 |           |

| TPH 8015M    |        |                 | mg/kg      |              | Analyzed By: MS |            |               |      |           |
|--------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <50.0  | 50.0            | 07/10/2013 | ND           | 202             | 101        | 200           | 7.87 |           |
| DRO >C10-C28 | 329    | 50.0            | 07/10/2013 | ND           | 205             | 103        | 200           | 9.74 |           |

Surrogate: 1-Chlorooctane 87.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 07/03/2013  
 Reported: 07/12/2013  
 Project Name: WEST B 2 BATTERY  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 07/01/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 BOTTOM 3' (H301577-04)**

| BTEx 8021B     |        |                 | mg/kg      |              | Analyzed By: DW |            |               | S-04 |           |  |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 07/09/2013 | ND           | 2.51            | 126        | 2.00          | 7.67 |           |  |
| Toluene*       | <0.050 | 0.050           | 07/09/2013 | ND           | 2.43            | 122        | 2.00          | 8.28 |           |  |
| Ethylbenzene*  | 0.438  | 0.050           | 07/09/2013 | ND           | 2.50            | 125        | 2.00          | 9.23 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 07/09/2013 | ND           | 7.47            | 124        | 6.00          | 8.81 |           |  |
| Total BTEx     | 0.438  | 0.300           | 07/09/2013 | ND           |                 |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PIL) 156 % 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            | 07/10/2013 | ND              | 416 | 104        | 400           | 0.00 |           |

| 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            | 07/10/2013 | ND              | 202 | 101        | 200           | 7.87 |           |
| DRO >C10-C28 | 3880   | 50.0            | 07/10/2013 | ND              | 205 | 103        | 200           | 9.74 |           |

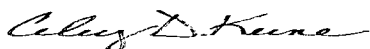
Surrogate: 1-Chlorooctane 93.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 162 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

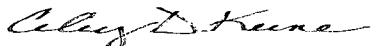
|      |  |
|------|--|
| S-06 | The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.         |
| S-04 | The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.   |
| ND   | Analyte NOT DETECTED at or above the reporting limit   |
| RPD  | Relative Percent Difference  |
| **   | Samples not received at proper temperature of 6°C or below.  |
| ***  | Insufficient time to reach temperature.  |
| -    | Chloride by SM4500Cl-B does not require samples be received at or below 6°C<br>Samples reported on an as received basis (wet) unless otherwise noted on report |

---

Cardinal Laboratories

\*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



---

Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 7 of 7

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

|                                       |  |                |  |                              |  |             |  |                         |  |      |  |          |  |        |  |       |  |           |  |          |  |       |  |      |  |      |  |
|---------------------------------------|--|----------------|--|------------------------------|--|-------------|--|-------------------------|--|------|--|----------|--|--------|--|-------|--|-----------|--|----------|--|-------|--|------|--|------|--|
| Company Name: <u>Linn Energy</u>      |  |                |  | <b>BILL TO</b>               |  |             |  | <b>ANALYSIS REQUEST</b> |  |      |  |          |  |        |  |       |  |           |  |          |  |       |  |      |  |      |  |
| Project Manager: <u>Gary Wink</u>     |  |                |  | P.O. #:                      |  |             |  |                         |  |      |  |          |  |        |  |       |  |           |  |          |  |       |  |      |  |      |  |
| Address:                              |  |                |  | Company:                     |  |             |  |                         |  |      |  |          |  |        |  |       |  |           |  |          |  |       |  |      |  |      |  |
| City:                                 |  | State:         |  | Zip:                         |  | Attn:       |  |                         |  |      |  |          |  |        |  |       |  |           |  |          |  |       |  |      |  |      |  |
| Phone #:                              |  | Fax #:         |  | Address:                     |  |             |  |                         |  |      |  |          |  |        |  |       |  |           |  |          |  |       |  |      |  |      |  |
| Project #:                            |  | Project Owner: |  | City:                        |  |             |  |                         |  |      |  |          |  |        |  |       |  |           |  |          |  |       |  |      |  |      |  |
| Project Name: <u>West B 2 Battery</u> |  |                |  | State:                       |  |             |  |                         |  |      |  |          |  |        |  |       |  |           |  | Zip:     |  |       |  |      |  |      |  |
| Project Location:                     |  |                |  | Phone #:                     |  |             |  |                         |  |      |  |          |  |        |  |       |  |           |  |          |  |       |  |      |  |      |  |
| Sampler Name: <u>bat 50 G</u>         |  |                |  | Fax #:                       |  |             |  |                         |  |      |  |          |  |        |  |       |  |           |  |          |  |       |  |      |  |      |  |
| FOR LAB USE ONLY                      |  |                |  | MATRIX                       |  |             |  | PRESERV.                |  |      |  | SAMPLING |  |        |  |       |  |           |  |          |  |       |  |      |  |      |  |
| Lab I.D.                              |  | Sample I.D.    |  | GRAB OR (COMP. # CONTAINERS) |  | GROUNDWATER |  | WASTEWATER              |  | SOIL |  | OIL      |  | SLUDGE |  | OTHER |  | ACID/BASE |  | ICE/COOL |  | OTHER |  | DATE |  | TIME |  |
| H301577                               |  |                |  | G 1                          |  |             |  |                         |  | ✓    |  |          |  |        |  |       |  | ✓         |  | ✓        |  | ✓     |  | 7/1  |  | 7:21 |  |
| 1                                     |  | SP1 Bottom 3'  |  | G 1                          |  |             |  |                         |  | ✓    |  |          |  |        |  |       |  | ✓         |  | ✓        |  | ✓     |  | 7/1  |  | 7:34 |  |
| 2                                     |  | SP2 Bottom 3'  |  | G 1                          |  |             |  |                         |  | ✓    |  |          |  |        |  |       |  | ✓         |  | ✓        |  | ✓     |  | 7/1  |  | 7:42 |  |
| 3                                     |  | SP3 Bottom 3'  |  | G 1                          |  |             |  |                         |  | ✓    |  |          |  |        |  |       |  | ✓         |  | ✓        |  | ✓     |  | 7/1  |  | 7:47 |  |
| 4                                     |  | SP4 Bottom 3'  |  | G 1                          |  |             |  |                         |  | ✓    |  |          |  |        |  |       |  | ✓         |  | ✓        |  | ✓     |  |      |  |      |  |

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 analyses. 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: <u>hans Gonzalez</u> |  | Date: <u>7-2-13</u>  |  | Received By: <u>[Signature]</u>                                     |  | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No |  | Add'l Phone #:                      |  |
| Relinquished By: <u>[Signature]</u>   |  | Time: <u>4:30 PM</u> |  | Received By: <u>[Signature]</u>                                     |  | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No   |  | Add'l Fax #:                        |  |
| Delivered By: (Circle One)            |  | Date: <u>7-3-13</u>  |  | Received By: <u>[Signature]</u>                                     |  | REMARKS:   |  | Email: <u>gawink@linnenergy.com</u> |  |
| Sampler - UPS                         |  | Time: <u>11:00</u>   |  | Sample Condition  |  | CHECKED BY: <u>[Signature]</u>   |  | <u>aruth@diversifiedpsi.com</u>     |  |
| Bus - Other:                          |  | 5.50                 |  | Cool Intact   |  | (Initials)   |  |                                     |  |
|                                       |  |                      |  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |  |  |  |                                     |  |

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

#54