

LINN ENERGY

2130 W. Bender Blvd.

Hobbs, NM 88241

Phone 575.738.1739

J.L. Keel A #28

2RP-2028

Corrective Action Plan

API No. 3001528231

Release Date: Discovered on June 27th, 2011

Unit Letter J, Section 7, Township 17S, Range 31E

Rice Environmental Consulting & Safety

P.O. Box 2948, Hobbs, NM 88241
Phone 575.393.2967

November 14th, 2013

Mike Bratcher

New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau – District 2
811 S. First St.
Artesia, NM 88210

RE: Corrective Action Plan (CAP)
Linn Energy – J.L. Keel A #28 (2RP-2028)
UL/J sec. 7 T17S R31E
API No. 3001528231

Mr. Bratcher:

Linn Energy (Linn) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site.

Background and Previous Work

The site is located approximately 4.7 miles northeast of Loco Hills, New Mexico at UL/J sec. 7 T17S R31E. This site is in an area of no known groundwater.

While BLM was inspecting another site in the area on June 27th, 2011, BLM discovered a flow line release to the J.L. Keel A #28 injection well. A total of 6,762 sq ft of pasture land was affected by the release. An initial C-141 was sent to NMOCD and BLM on October 28th, 2013 (Appendix A). NMOCD responded on October 29th, 2013 with the remediation permit number.

RECS personnel were on site beginning on October 25th, 2013 to assess the site. The release was sampled at the surface and at depth at six points throughout the release area (Figure 1). The samples were field tested for chlorides and hydrocarbons and representative samples were taken to a commercial laboratory for analysis (Appendix B). The release on the east side of the road was located over a former pit area. Laboratory chloride readings from the surface on the east side were above 250 mg/kg, except at Point 4 where the chloride reading was non-detect. Gasoline Range Organics (GRO) readings and BTEX readings from the surface samples on the east side were non-detect. Diesel Range Organics (DRO) readings at the surface on the east side were elevated, except for Point 4, but still below regulatory standards. Point 2 was augured to determine the depth of contamination. At 7 ft bgs, laboratory sampling showed a chloride value below 250 mg/kg and GRO, DRO and BTEX values of non-detect.

On the west side of the release road, laboratory analysis showed chloride, GRO, DRO and BTEX values of non-detect or near non-detect.

Photo documentation of the release can be found in Appendix C.

Corrective Action Plan

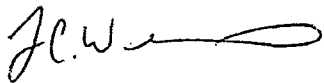
On November 1st, 2013, RECS met with BLM at the site. BLM recommended that the release on the east side of the lease road and the pit area be capped with 6 inches of caliche and then 2 ft of clean, imported top soil. The site would then be seeded with a blend of native vegetation. Vegetation provides an infiltration barrier for the site, since plants capture water through their roots thereby reducing the amount of water traveling through the vadose zone to groundwater.

The area to the west side of the lease road does not need to be addressed since sampling indicates no ecological detriment occurred to the area.

Once the CAP activities are completed, Linn will submit a report detailing the CAP activities and a request for 'remediation termination' or site closure.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

Sincerely,

A handwritten signature in black ink, appearing to read 'J.C.W.' followed by a long, horizontal, wavy line.

Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

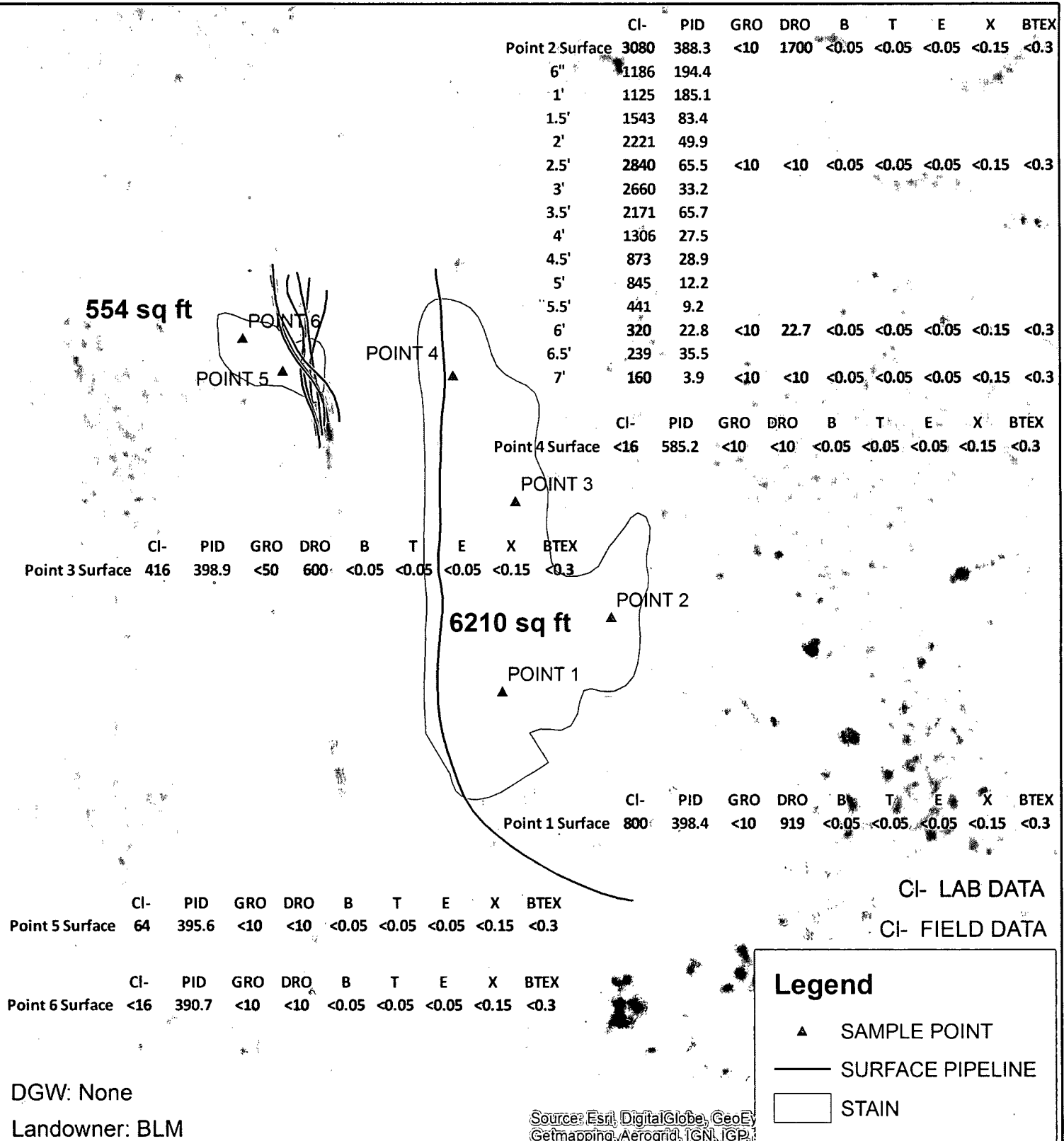
Attachments:

- Figure 1 – Initial Sampling Data
- Appendix A – Initial C-141
- Appendix B – Laboratory Analysis
- Appendix C – Photo Documentation

Figures

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948, Hobbs, NM 88241
Phone 575.393.2967

Initial Sampling Data



Linn J.L. Keel
A #28

LEGALS: UL/J sec. 7

T-17-S R-31-E

EDDY COUNTY, NM

NMOCD Case #: 2RP-2028

Figure 1



0 25 50
Feet

GPS date: 10/25/13 KS
Drawing date: 11/4/13
Drafted by: L. Weinheimer

Appendix A

Initial C-141

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

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

Form C-141
Revised August 8, 2011

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

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 Energy | Contact Brian Wall | |
| Address 2130 W. Bender Blvd., Hobbs, NM 88240 | Telephone No. (806) 367-0645 | |
| Facility Name J.L. Keel A #28 | Facility Type Flow Line Release | |
| Surface Owner BLM | Mineral Owner | API No. 3001528231 |

LOCATION OF RELEASE

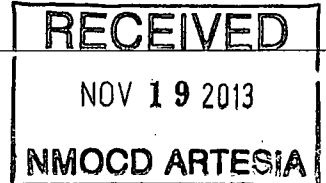
| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| J | 7 | 17S | 31E | 2196 | FSL | 2028 | FEL | EDDY |

Latitude 32°50'52.24"N Longitude 103°54'26.222"W

NATURE OF RELEASE

| | | |
|--|---|------------------------------------|
| Type of Release Produced water/Oil | Volume of Release Unknown | Volume Recovered None |
| Source of Release Break in flow line | Date and Hour of Occurrence Unknown | Date and Hour of Discovery 6/27/11 |
| Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? | |
| By Whom? | Date and Hour | |
| Was a Watercourse Reached? <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.*

While BLM was inspecting another site in the area, BLM discovered a flow line release to the J.L. Keel A #28 injection well. A total of 6762 sq ft of pasture land was affected by the release.

Describe Area Affected and Cleanup Action Taken.*

The site will be assessed vertically and horizontally and a Corrective Action Plan will be written with recommendations 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 NMOC D 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 NMOC D 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, NMOC D 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: Fred B Wall | | OIL CONSERVATION DIVISION | |
| 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: Phone: (806) 367-0645 | | Attached <input type="checkbox"/> | |

* Attach Additional Sheets If Necessary

Appendix B

Laboratory Analyses

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

November 04, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: J. L. KEEL A #28

Enclosed are the results of analyses for samples received by the laboratory on 10/25/13 16:20.

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.

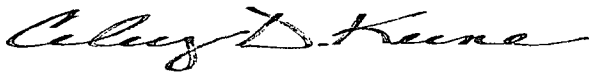
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

RICE ENVIRONMENTAL CONSULTING & SAFETY
JACOB KAMPLAIN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 397-1471

Received: 10/25/2013
Reported: 11/04/2013
Project Name: J. L. KEEL A #28
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/25/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: POINT 1 @ SURFACE (H302605-01)

| 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 | 10/29/2013 | ND | 1.68 | 83.8 | 2.00 | 3.80 | | |
| Toluene* | <0.050 | 0.050 | 10/29/2013 | ND | 1.71 | 85.5 | 2.00 | 3.52 | | |
| Ethylbenzene* | <0.050 | 0.050 | 10/29/2013 | ND | 1.72 | 86.0 | 2.00 | 3.73 | | |
| Total Xylenes* | <0.150 | 0.150 | 10/29/2013 | ND | 5.10 | 85.0 | 6.00 | 3.31 | | |
| Total BTEX | <0.300 | 0.300 | 10/29/2013 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PI) 107 % 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 | 800 | 16.0 | 10/29/2013 | 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 | 10/29/2013 | ND | 210 | 105 | 200 | 1.98 | | |
| DRO >C10-C28 | 919 | 10.0 | 10/29/2013 | ND | 202 | 101 | 200 | 1.03 | | |

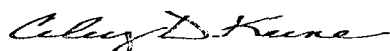
Surrogate: 1-Chlorooctane 98.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 127 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
JACOB KAMPLAIN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 397-1471

Received: 10/25/2013
Reported: 11/04/2013
Project Name: J. L. KEEL A #28
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/25/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: POINT 2 @ SURFACE (H302605-02)

| 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 | 10/29/2013 | ND | 1.68 | 83.8 | 2.00 | 3.80 | |
| Toluene* | <0.050 | 0.050 | 10/29/2013 | ND | 1.71 | 85.5 | 2.00 | 3.52 | |
| Ethylbenzene* | <0.050 | 0.050 | 10/29/2013 | ND | 1.72 | 86.0 | 2.00 | 3.73 | |
| Total Xylenes* | <0.150 | 0.150 | 10/29/2013 | ND | 5.10 | 85.0 | 6.00 | 3.31 | |
| Total BTEX | <0.300 | 0.300 | 10/29/2013 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 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 | 3080 | 16.0 | 10/29/2013 | 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 | 10/29/2013 | ND | 210 | 105 | 200 | 1.98 | |
| DRO >C10-C28 | 1700 | 10.0 | 10/29/2013 | ND | 202 | 101 | 200 | 1.03 | |

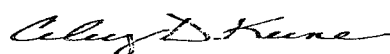
Surrogate: 1-Chlorooctane 98.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 142 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
JACOB KAMPLAIN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 397-1471

| | | | |
|-------------------|------------------|---------------------|---------------|
| Received: | 10/25/2013 | Sampling Date: | 10/25/2013 |
| Reported: | 11/04/2013 | Sampling Type: | Soil |
| Project Name: | J. L. KEEL A #28 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: POINT 3 @ SURFACE (H302605-03)

| 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 | 10/29/2013 | ND | 1.68 | 83.8 | 2.00 | 3.80 | | |
| Toluene* | <0.050 | 0.050 | 10/29/2013 | ND | 1.71 | 85.5 | 2.00 | 3.52 | | |
| Ethylbenzene* | <0.050 | 0.050 | 10/29/2013 | ND | 1.72 | 86.0 | 2.00 | 3.73 | | |
| Total Xylenes* | <0.150 | 0.150 | 10/29/2013 | ND | 5.10 | 85.0 | 6.00 | 3.31 | | |
| Total BTEX | <0.300 | 0.300 | 10/29/2013 | 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 | 416 | 16.0 | 10/29/2013 | 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 | <50.0 | 50.0 | 10/29/2013 | ND | 210 | 105 | 200 | 1.98 | | |
| DRO >C10-C28 | 600 | 50.0 | 10/29/2013 | ND | 202 | 101 | 200 | 1.03 | | |

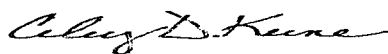
Surrogate: 1-Chlorooctane 89.0 % 65.2-140

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:

RICE ENVIRONMENTAL CONSULTING & SAFETY
JACOB KAMPLAIN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 397-1471

Received: 10/25/2013
Reported: 11/04/2013
Project Name: J. L. KEEL A #28
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/25/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: POINT 4 @ SURFACE (H302605-04)

| 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 | 10/29/2013 | ND | 1.68 | 83.8 | 2.00 | 3.80 | |
| Toluene* | <0.050 | 0.050 | 10/29/2013 | ND | 1.71 | 85.5 | 2.00 | 3.52 | |
| Ethylbenzene* | <0.050 | 0.050 | 10/29/2013 | ND | 1.72 | 86.0 | 2.00 | 3.73 | |
| Total Xylenes* | <0.150 | 0.150 | 10/29/2013 | ND | 5.10 | 85.0 | 6.00 | 3.31 | |
| Total BTEX | <0.300 | 0.300 | 10/29/2013 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 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 | <16.0 | 16.0 | 10/29/2013 | 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 | 10/29/2013 | ND | 210 | 105 | 200 | 1.98 | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/29/2013 | ND | 202 | 101 | 200 | 1.03 | |

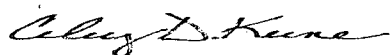
Surrogate: 1-Chlorooctane 96.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
JACOB KAMPLAIN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 397-1471

Received: 10/25/2013
Reported: 11/04/2013
Project Name: J. L. KEEL A #28
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/25/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: POINT 5 @ SURFACE (H302605-05)

| 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 | 10/29/2013 | ND | 1.68 | 83.8 | 2.00 | 3.80 | | |
| Toluene* | <0.050 | 0.050 | 10/29/2013 | ND | 1.71 | 85.5 | 2.00 | 3.52 | | |
| Ethylbenzene* | <0.050 | 0.050 | 10/29/2013 | ND | 1.72 | 86.0 | 2.00 | 3.73 | | |
| Total Xylenes* | <0.150 | 0.150 | 10/29/2013 | ND | 5.10 | 85.0 | 6.00 | 3.31 | | |
| Total BTEX | <0.300 | 0.300 | 10/29/2013 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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 | 64.0 | 16.0 | 10/29/2013 | 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 | 10/29/2013 | ND | 210 | 105 | 200 | 1.98 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/29/2013 | ND | 202 | 101 | 200 | 1.03 | | |

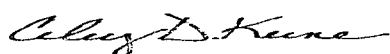
Surrogate: 1-Chlorooctane 100 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
JACOB KAMPLAIN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 397-1471

Received: 10/25/2013
Reported: 11/04/2013
Project Name: J. L. KEEL A #28
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/25/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: POINT 6 @ SURFACE (H302605-06)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/01/2013 | ND | 2.06 | 103 | 2.00 | 0.153 | |
| Toluene* | <0.050 | 0.050 | 11/01/2013 | ND | 2.05 | 103 | 2.00 | 0.309 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/01/2013 | ND | 2.07 | 104 | 2.00 | 0.301 | |
| Total Xylenes* | <0.150 | 0.150 | 11/01/2013 | ND | 5.96 | 99.4 | 6.00 | 0.106 | |
| Total BTEX | <0.300 | 0.300 | 11/01/2013 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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 | <16.0 | 16.0 | 10/29/2013 | 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 | 10/29/2013 | ND | 210 | 105 | 200 | 1.98 | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/29/2013 | ND | 202 | 101 | 200 | 1.03 | |

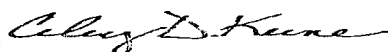
Surrogate: 1-Chlorooctane 97.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.4 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

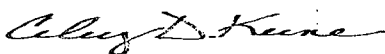
Notes and Definitions

| | |
|-----|---|
| 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 |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | | | | | | | | | | | | | | | | | | | |
|--|-------------------|------------------------------|-------------|----------------|------|-----|--------|--|------------|------------|--------|----------|------|---|---|---|--|--|--|
| Company Name: RECS | | | | BILL TO | | | | ANALYSIS REQUEST | | | | | | | | | | | |
| Project Manager: Jacob Kamplain | | | | P.O. #: | | | | <div style="display: flex; flex-direction: column; align-items: center;"> <div>Chlorides</div> <div>TPH 8015 M</div> <div>BTEX</div> <div>Texas TPH</div> <div>Complete Cations/Anions</div> <div>TDS</div> </div> | | | | | | | | | | | |
| Address: | | | | Company: | | | | | | | | | | | | | | | |
| City: Hobbs State: NM Zip: 88240 | | | | Attn: | | | | | | | | | | | | | | | |
| Phone #: Fax #: | | | | Address: | | | | | | | | | | | | | | | |
| Project #: Project Owner: | | | | City: | | | | | | | | | | | | | | | |
| Project Name: | | | | State: Zip: | | | | | | | | | | | | | | | |
| Project Location: J.L. Keel A #28 | | | | Phone #: | | | | | | | | | | | | | | | |
| Sampler Name: Kyle Schnaidt | | | | Fax #: | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | | | | | | | | | | | | | | | | | | |
| Lab I.D. | Sample I.D. | (GRAB OR (COMP. # CONTAINERS | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER: | ACID/BASE: | ICE / COOL | OTHER: | DATE | TIME | | | | | | |
| H302605 | | | | | | | | | | | | | | | | | | | |
| 1 | Point 1 @ Surface | 6 | | | X | | | | | X | | 10-25-13 | 1:45 | X | X | X | | | |
| 2 | Point 2 @ Surface | 6 | | | X | | | | | X | | S | 1:50 | X | X | X | | | |
| 3 | Point 3 @ Surface | 6 | | | X | | | | | X | | | 1:55 | X | X | X | | | |
| 4 | Point 4 @ Surface | 6 | | | X | | | | | X | | | 2:00 | X | X | X | | | |
| 5 | Point 5 @ Surface | 6 | | | X | | | | | X | | | 2:05 | X | X | X | | | |
| 6 | Point 6 @ Surface | 6 | | | X | | | | | X | | | 2:10 | X | X | X | | | |

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| | | | | | | |
|------------------------------|----------|--------------------|--|-----|----|----------------|
| Relinquished By: | Date: | Received By: | Phone Result: | Yes | No | Add'l Phone #: |
| Kyle Schnaidt | 10-25-13 | Jodi Benson | Fax Result: | Yes | No | Add'l Fax #: |
| Relinquished By: | Date: | Received By: | REMARKS: | | | |
| | Time: | | kschnaidt@rice-ecs.com | | | |
| | | | Knorman@rice-ecs.com | | | |
| | | | Kjones@riceswd.com; jkamplain@rice-ecs.com | | | |
| | | | hconder@rice-ecs.com; Lweinheimer@rice-ecs.com | | | |
| Delivered By: (Circle One) | | Sample Condition | CHECKED BY: | | | |
| Sampler - UPS - Bus - Other: | | Cool Intact | (Initials) | | | |
| | | Yes No | | | | |

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

#54

November 04, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: J. L. KEEL A #28

Enclosed are the results of analyses for samples received by the laboratory on 10/28/13 16:20.

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.

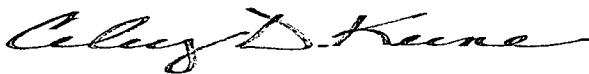
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

RICE ENVIRONMENTAL CONSULTING & SAFETY
JACOB KAMPLAIN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 397-1471

Received: 10/28/2013
Reported: 11/04/2013
Project Name: J. L. KEEL A #28
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/28/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: POINT 2 @ 2.5' (H302611-01)

| 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 | 11/01/2013 | ND | 2.06 | 103 | 2.00 | 0.153 | |
| Toluene* | <0.050 | 0.050 | 11/01/2013 | ND | 2.05 | 103 | 2.00 | 0.309 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/01/2013 | ND | 2.07 | 104 | 2.00 | 0.301 | |
| Total Xylenes* | <0.150 | 0.150 | 11/01/2013 | ND | 5.96 | 99.4 | 6.00 | 0.106 | |
| Total BTEX | <0.300 | 0.300 | 11/01/2013 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 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 | 2840 | 16.0 | 10/29/2013 | 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 | 10/29/2013 | ND | 199 | 99.5 | 200 | 3.71 | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/29/2013 | ND | 189 | 94.6 | 200 | 5.97 | |

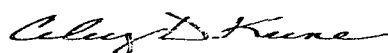
Surrogate: 1-Chlorooctane 89.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.8 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
JACOB KAMPLAIN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 397-1471

Received: 10/28/2013
Reported: 11/04/2013
Project Name: J. L. KEEL A #28
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/28/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: POINT 2 @ 6' (H302611-02)

| 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 | 11/01/2013 | ND | 2.06 | 103 | 2.00 | 0.153 | |
| Toluene* | <0.050 | 0.050 | 11/01/2013 | ND | 2.05 | 103 | 2.00 | 0.309 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/01/2013 | ND | 2.07 | 104 | 2.00 | 0.301 | |
| Total Xylenes* | <0.150 | 0.150 | 11/01/2013 | ND | 5.96 | 99.4 | 6.00 | 0.106 | |
| Total BTX | <0.300 | 0.300 | 11/01/2013 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 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 | 320 | 16.0 | 10/29/2013 | 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 | 10/29/2013 | ND | 199 | 99.5 | 200 | 3.71 | |
| DRO >C10-C28 | 22.7 | 10.0 | 10/29/2013 | ND | 189 | 94.6 | 200 | 5.97 | |

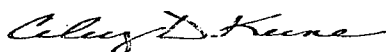
Surrogate: 1-Chlorooctane 74.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 76.4 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
JACOB KAMPLAIN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 397-1471

Received: 10/28/2013
Reported: 11/04/2013
Project Name: J. L. KEEL A #28
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/28/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: POINT 2 @ 7' (H302611-03)

| 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 | 11/01/2013 | ND | 2.06 | 103 | 2.00 | 0.153 | | |
| Toluene* | <0.050 | 0.050 | 11/01/2013 | ND | 2.05 | 103 | 2.00 | 0.309 | | |
| Ethylbenzene* | <0.050 | 0.050 | 11/01/2013 | ND | 2.07 | 104 | 2.00 | 0.301 | | |
| Total Xylenes* | <0.150 | 0.150 | 11/01/2013 | ND | 5.96 | 99.4 | 6.00 | 0.106 | | |
| Total BTEX | <0.300 | 0.300 | 11/01/2013 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 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 | 10/29/2013 | 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 | 10/29/2013 | ND | 199 | 99.5 | 200 | 3.71 | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/29/2013 | ND | 189 | 94.6 | 200 | 5.97 | |

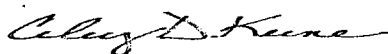
Surrogate: 1-Chlorooctane 89.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.9 % 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 |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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

#54

Appendix C

Photo Documentation

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

Linn J.L. Keel A #28
Unit Letter J, Section 7, T17S, R31E



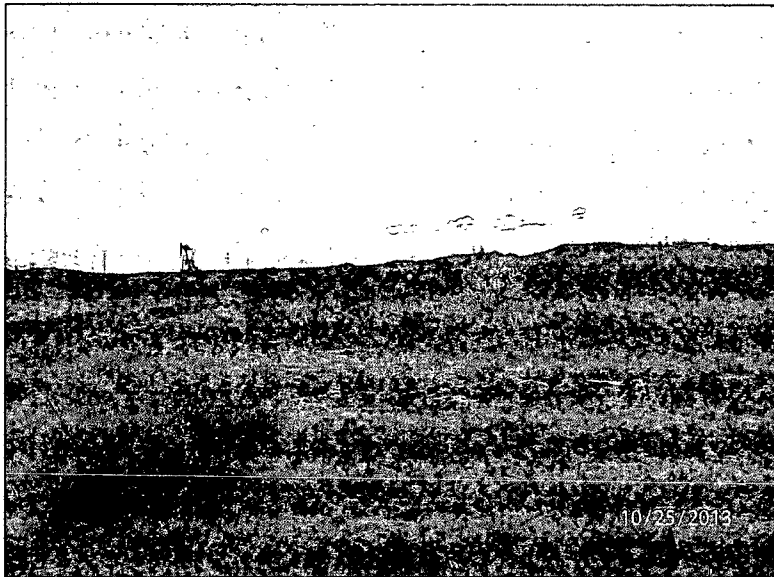
Initial release area, facing south

10/25/13



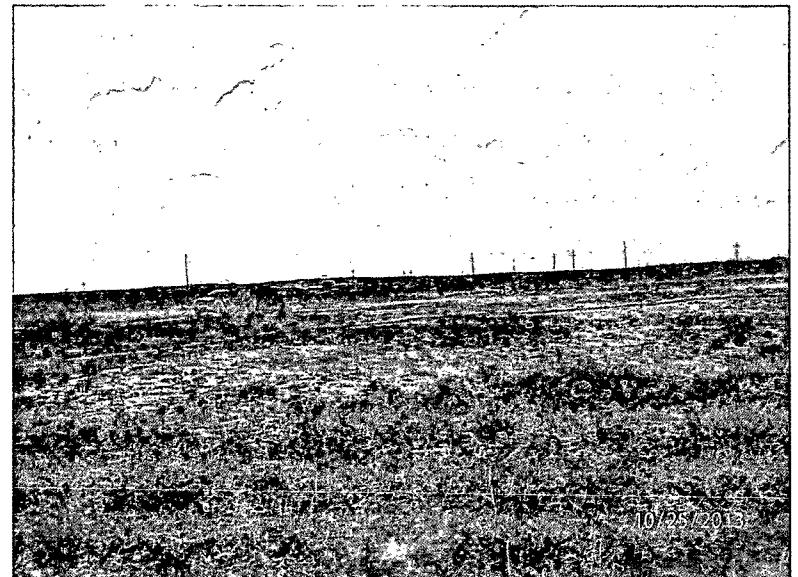
Initial release area, facing east

10/25/13



Initial release area, facing northwest

10/25/13



Initial release area, facing southwest

10/25/13

Bratcher, Mike, EMNRD

From: Bratcher, Mike, EMNRD
Sent: Thursday, February 13, 2014 8:54 AM
To: 'Jacob Kamplain'
Cc: 'Lara Weinheimer'; hconder@rice-ecs.com; 'Wall, Fred'
Subject: RE: Linn JL Keel A #28

Jacob,

As discussed, this CAP is approved.

Thank you,

Mike Bratcher
NMOCD District 2
811 S. First Street
Artesia, NM 88210
O: 575-748-1283 X108
C: 575-626-0857
F: 575-748-9720

From: Jacob Kamplain [<mailto:jkamplain@rice-ecs.com>]
Sent: Tuesday, February 11, 2014 2:30 PM
To: Bratcher, Mike, EMNRD
Cc: 'Lara Weinheimer'; hconder@rice-ecs.com; 'Wall, Fred'
Subject: Linn JL Keel A #28

Mr. Bratcher as per our conversation on 2/10/14. RECS received verbal CAP approval from NMOCD for the Linn JL Keel A #28 (2RP-2028). Let me know if you have any questions or concerns. Thanks.



Jacob Kamplain
Project Leader
419 W. Cain
Hobbs, NM 88240
575-942-8221

Bratcher, Mike, EMNRD

From: Jacob Kamplain <jkamplain@rice-ecs.com>
Sent: Tuesday, February 11, 2014 2:30 PM
To: Bratcher, Mike, EMNRD
Cc: 'Lara Weinheimer'; hconder@rice-ecs.com; 'Wall, Fred'
Subject: Linn JL Keel A #28

Mr. Bratcher as per our conversation on 2/10/14. RECS received verbal CAP approval from NMOCD for the Linn JL Keel A #28 (2RP-2028). Let me know if you have any questions or concerns. Thanks.



Jacob Kamplain
Project Leader
419 W. Cain
Hobbs, NM 88240
575-942-8221

Bratcher, Mike, EMNRD

From: Burton, Michael <mburton@blm.gov>
Sent: Friday, November 15, 2013 7:08 AM
To: Lara Weinheimer
Cc: Bratcher, Mike, EMNRD; Brian Wall
Subject: Re: Linn J.L. Keel A #28 (2RP-2028) Corrective Action Plan

Lara,
This plan is approved as written. Please keep myself and NMOCD informed of any changing conditions to this plan.
Thanks

Mike Burton
BLM-CFO
Environmental Protection Specialist
575-234-2226 office
575-361-3574 cell
mburton@blm.gov

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On Thu, Nov 14, 2013 at 5:15 PM, Lara Weinheimer <lweinheimer@rice-ecs.com> wrote:

Mike, attached is the Corrective Action Plan for the Linn J.L. Keel A #28 (2RP-2028). If you have any questions, please let me know. Otherwise, we will await your approval.

Thanks!

Lara Weinheimer
Rice Environmental Consulting & Safety
Project Scientist
419 West Cain
Hobbs, NM 88240

(575) 441-0431