

LINN ENERGY

2130 W. Bender Blvd. Hobbs, NM 88241 Phone 575.738.1739

J.L. Keel B #25

Closure Report

API 30-015-05088

BLM Event No. 11NU094TG

Release Date: June 24, 2011

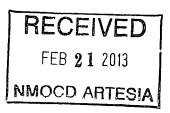
Unit Letter L, Section 6, Township 17S, Range 31E

Rice Environmental Consulting & Safety

P.O. Box 5630 Hobbs, NM 88241 Phone 575.393.4411 Fax 575.393.0293

November 28, 2012

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



RE: TERMINATION REQUEST Linn Energy – J.L. Keel B #025 AD UL/L sec. 6 T17S R31E API No. 30-015-05088 BLM Event No. 11NU094TG

Mr. Bratcher:

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

Background and Previous Work

The site is an accidental discharge of produced water associated with the J.L. Keel B #025. An injection line ruptured and released fluids onto pasture land. The site is located approximately 4 miles northeast of Loco Hills, in unit letter 'L' of section 6, T17S, R31E in Eddy County, New Mexico.

On October 17, 2012, RECS personnel collected samples from a soil bore (SB-1) drilled at the site (Figure, Appendix A). Samples were collected at surface, 5 ft., 10 ft., and at 10 ft. intervals thereafter to a depth of 80 ft. below ground surface (bgs). The samples were submitted to a laboratory for chloride, TPH, and BTEX analyses (Appendix C). The soil bore was advanced past red bed clay, and was left open to accumulate potential groundwater. On October 20, 2012, contract personnel used a Solinist water meter to determine if any groundwater had accumulated within the soil bore. No groundwater was detected at the total depth of 77.12 ft. bgs (Appendix A). The soil bore was plugged in full with bentonite.

On October 26, 2012, a Corrective Action Plan (CAP) was submitted to the BLM detailing remediation plans for the site. Given that the site is within a known area of no groundwater, the impacted area would be excavated to 3 ft. bgs. The excavation walls would contain no more than 250 mg/kg chloride. Final grab samples collected from the sidewalls and bottom would be submitted to a commercial laboratory for chloride and TPH confirmation. Excavated soils would be removed to a NMOCD approved disposal facility. The excavation would be backfilled with clean, imported soil, and the top 2 ft. of the excavation would be backfilled with topsoil similar

to the native terrain. The site would be contoured to the surrounding landscape with erosion controls. The site would be seeded with BLM seed mix #2 and #4 in a 50/50 mix. Subsequently, a written report requesting termination status of the site regulatory file would be submitted.

On November 1, 2012, BLM approved the CAP with the stipulation that the excavation bottom be delineated an additional 3 ft below the existing 3 ft. depth, in 1 ft. intervals. Laboratory results from these samples would determine further activities at the site.

On November 6, 2012, a vertical sample point was advanced a further 3 ft. bgs within the existing 3 ft. excavation. Samples were collected and field tested at 1 ft. intervals. The samples were submitted to a laboratory for chloride and TPH analyses. The samples contained 160 mg/kg chloride or less and 508 mg/kg DRO or less.

On November 14, 2012, grab samples from the excavation walls and bottom were field tested and submitted to a laboratory for chloride, TPH, and BTEX analyses (Appendix C). The Pt.2 Bottom sample contained 608 mg/kg chloride, and the S Wall E End sample contained 416 mg/kg chloride. Remaining samples contained chloride levels of 144 mg/kg or less, DRO of 57 mg/kg or less, and non-detect BTEX levels.

Impacted soils were removed to a NMOCD approved disposal facility. The excavation was backfilled with clean, imported soil similar to the native terrain. The site was contoured to the surrounding landscape with erosion controls installed. The site will be seeded with BLM seed mix #2 and #4 in a 50/50 mix. See Appendix B for photographs of field activities.

Conclusion

Due to the removal of impacted soils and the absence of groundwater in the area, RECS, on behalf of Linn Energy, submits the final form C-141 (Appendix D) and respectfully requests the closure of the regulatory file for this site.

RECS appreciates the opportunity to work with you on this project. Please call me at the number below if you have any questions or comments.

Sincerely,

Bruce Baker Head Foreman

Bruce Baker

RECS

(575) 631-5157

Attachments:

Figure 1: Site Plat with Soil Bore and Vertical Lab Data

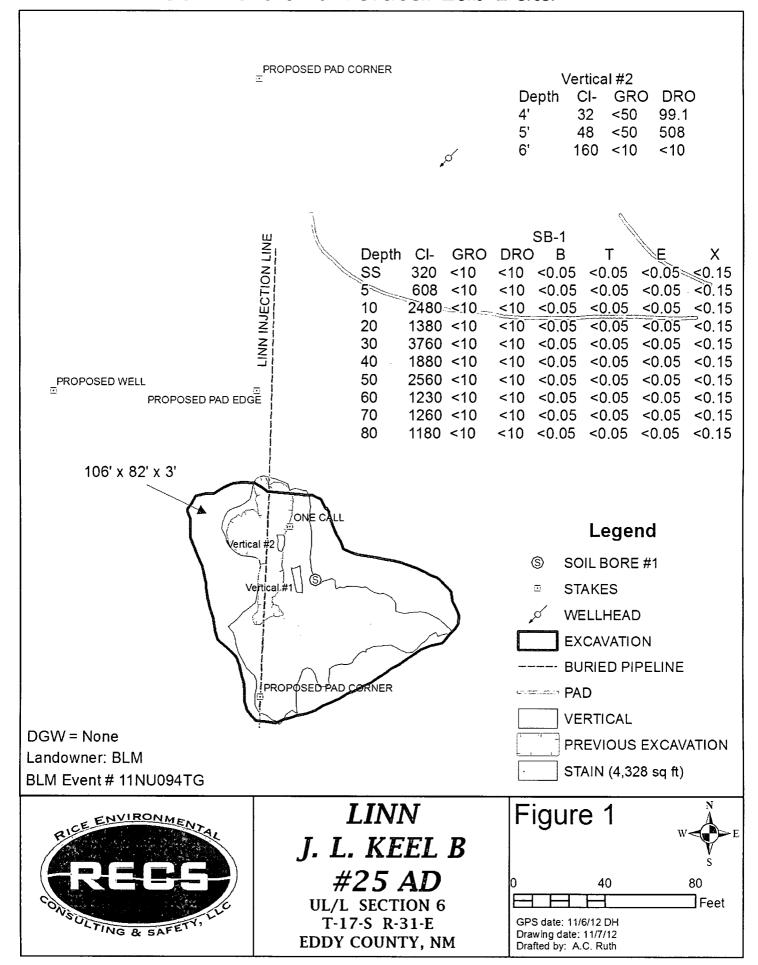
Figure 2: Site Plat with Excavation Lab Data

Appendix A: Soil Bore Log and Letter of Groundwater Verification

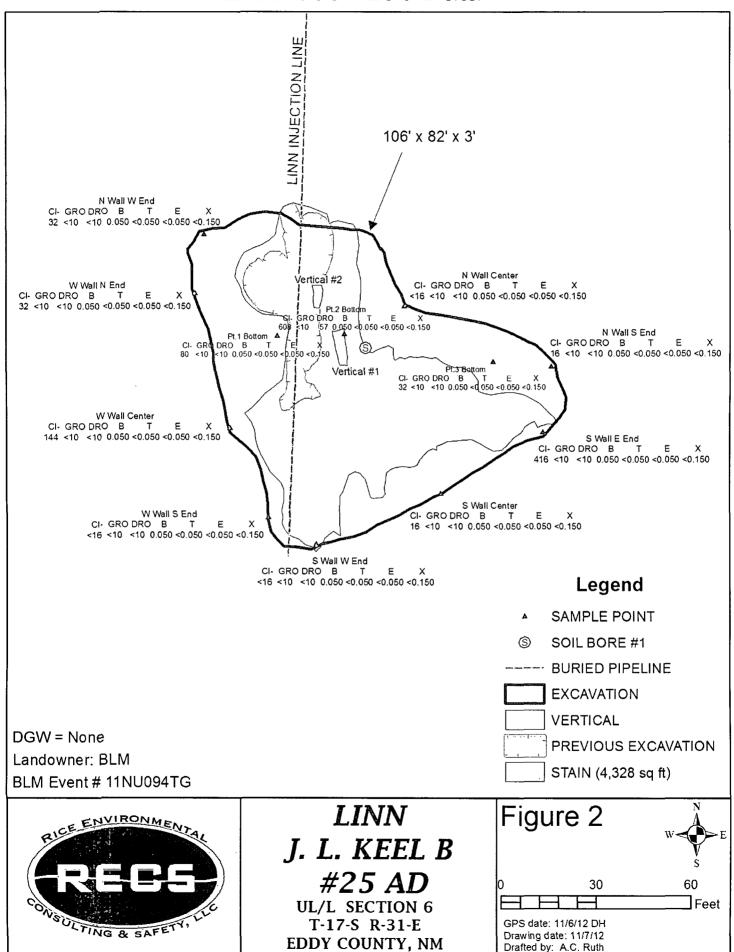
Appendix B: Site Photographs Appendix C: Laboratory Results Appendix D: Final Form C-141



Soil Bore and Vertical Lab Data



Excavation Lab Data





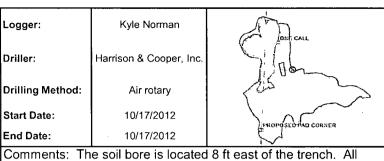
Soil Bore Log and Letter of Groundwater Verification

Logger: Kyle Norman Driller: Harrison & Cooper, Inc.

Drilling Method: Air rotary

Start Date: End Date:

10/17/2012 10/17/2012





Linn Energy J.L. Keel B #25

Well ID: SB-1

Project Consultant: RECS

Location: UL/L sec. 6 T-17-S R-31-E

samples were from cuttings. DRAFTED BY: L. Weinheimer **Lat:** 32°51'40.266"N

County: Eddy

| | TD = 82 | | TED BY: | : L. Weinheimer GW = None | Lat: 32°51'40.266 Long: 103°54'55. | |
|-----------------|------------------------|---|---|------------------------------|---------------------------------------|-------------------|
| Depth (feet) | Chloride tests | GRO | DRO | Description | Lithology | Well Construction |
| - | State | <pre><no <n<="" <notesting="" th=""><th><10 <10 <10 <10 <10 <10 <10 <10 <10 <10</th><th></th><th>T</th><th></th></no></pre> | <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 | | T | |
| | B <0.05 T E <0.05 X | | | | | |
| 60 ft | 1230 | <10 | <10 | | | |

| Depth Chloride (feet) tests | GRO | DRO | Description | Lithology | Well Construction |
|-----------------------------|-------|-----|------------------|-----------|-------------------|
| B <0.05 T | <0.05 | | | | |
| E <0.05 X | <0.15 | | | | |
| 70 ft 1260 | <10 | <10 | Red Sandy Clay | | |
| B <0.05 T | <0.05 | | rica Sariay Slay | | |
| E <0.05 X | <0.15 | _ | | | |
| 80 ft 1180 | <10 | <10 | | | |
| B <0.05 T | <0.05 | | | | |
| E <0.05 X | <0.15 | | RED BED CLAY | | |
| 82 ft | | | | | 1 6 /2 1 |

Arc Environmental

P. O. Box 1772 Lovington, New Mexico 88260 (575) 631-9310 Rozanne Johnson ~ rozanne@valornet.com

October 22, 2012

Mr. Hack Conder RICE Environmental Consulting and Safety 112 West Taylor Hobbs, New Mexico 88240

Re: LINN Operating JL Keel B #025

Mr. Conder,

On Saturday October 20, 2012 soil bore #1 at the JL Keel B #025, Eddy County T17S, R31E, Sec 6 Unit Letter L was checked with a Solinist Water Level Meter for water accumulation within the borehole. The meter indicated no water within the borehole at the total depth of 77.12 feet.

Sincerely, *Arc Environmental*

Rozanne Johnson

Rozanne Johnson

Electronic Copy:

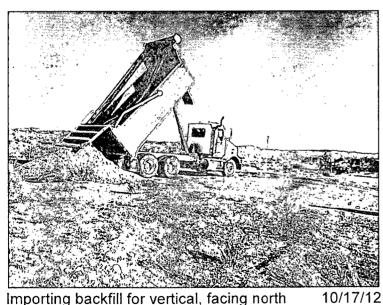
Hack Conder

Bruce Baker



RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

J.L. Keel B #025 Unit L, Section 6, T17S, R31E

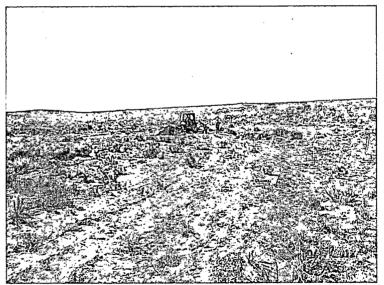


Importing backfill for vertical, facing north



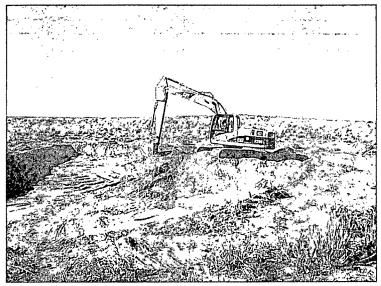
Location sign, facing west

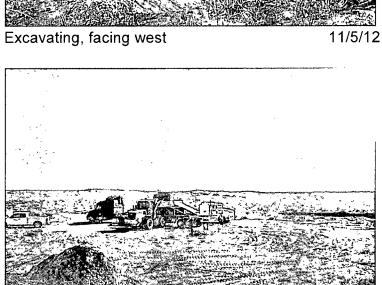
10/17/12



Digging Vertical #1, facing south

10/17/12





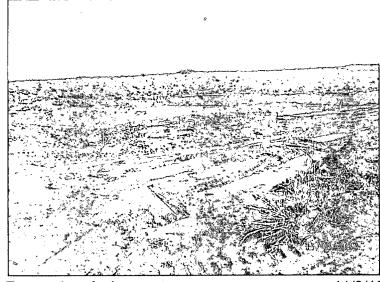
Exporting spoil pile, facing southeast





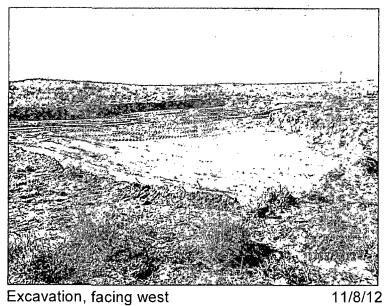
Sampling Vertical #2, facing west

11/6/12

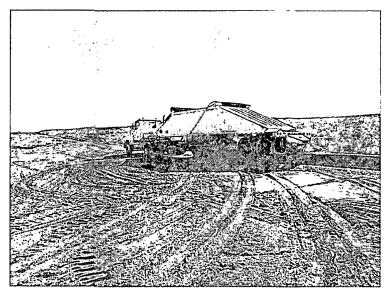


Excavation, facing east

11/8/12



Excavation, facing west

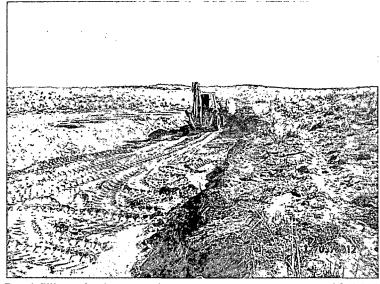


Importing topsoil, facing southeast



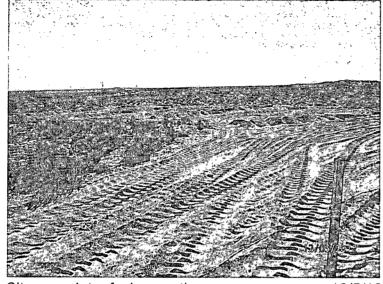


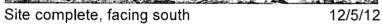
Collecting sample, facing north



Backfilling, facing south east

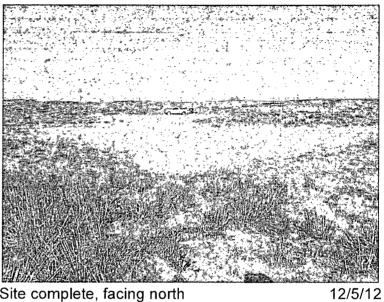
12/3/12



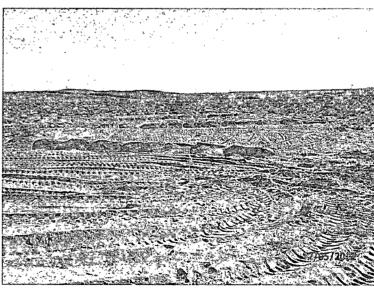




Site complete, facing east 12/5/12



Site complete, facing north



Site complete, facing southeast

12/5/12



RICE ENVIRONMENTAL CONSULTING & SAFETY **BRUCE BAKER** 112 W. TAYLOR HOBBS NM, 88240

(575) 397-1471

Received:

10/18/2012

Reported:

10/24/2012

Project Name:

J.L. KEEL B #25 NONE GIVEN

Project Number: Project Location:

NONE GIVEN

Sampling Date:

10/17/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: SB 1 @ SURFACE (H202541-01)

| BTEX 8021B | mg, | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---|--------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 10/22/2012 | ND | 1.98 | 99.0 | 2.00 | 2,23 | |
| Toluene* | <0.050 | 0.050 | 10/22/2012 | ND | 2.15 | 108 | 2.00 | 2.85 | |
| Ethylbenzene* | <0.050 | 0.050 | 10/22/2012 | ND | 2.16 | 108 | 2.00 | 2.30 | |
| Total Xylenes* | <0.150 | 0.150 | 10/22/2012 | ND | 6.54 | 109 | 6.00 | 2.75 | |
| Surrogate: 4-Bromofluorobenzene (PIL | 102 | % 89.4-12 | 6 | | | | | | |
| Chloride, SM4500CI-B | mg/kg | | Analyze | d By: HM | | | 109 6.00 2.75 % Recovery True Value QC RPD Qu 104 400 3.92 | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 320 | 16.0 | 10/22/2012 | ND | 416 | 104 | 400 | 3.92 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | _ | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 10/23/2012 | ND | 179 | 89.5 | 200 | 1.14 | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/23/2012 | ND | 176 | 87.9 | 200 | 0.0370 | |
| Surrogate: 1-Chlorooctane | 82.9 | % 65.2-14 | 10 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 90.3 | % 63.6-15 | 4 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Keene



RICE ENVIRONMENTAL CONSULTING & SAFETY

BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

10/18/2012

Reported:

10/24/2012

Project Name: Project Number: J.L. KEEL B #25 NONE GIVEN

69.2 %

63.6-154

Project Location:

NONE GIVEN

Sampling Date:

10/17/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Celey D. Keene

Sample ID: SB 1 @ 5' (H202541-02)

| BTEX 8021B | mg, | /kg | Analyze | d By: MS | | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|--|--------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 10/22/2012 | ND | 1.98 | 99.0 | 2.00 | 2.23 | | |
| Toluene* | <0.050 | 0.050 | 10/22/2012 | ND | 2.15 | 108 | 2.00 | 2.85 | | |
| Ethylbenzene* | <0.050 | 0.050 | 10/22/2012 | ND | 2.16 | 108 | 2.00 | 2.30 | | |
| Total Xylenes* | <0.150 | 0.150 | 10/22/2012 | ND | 6.54 | 109 | 6.00 | 2.75 | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 102 | % 89.4-12 | 6 | | | | | | | |
| Chloride, SM4500Cl-B | mg/kg | | Analyze | d By: HM | | | 108 2.00 2.30 109 6.00 2.75 % Recovery True Value QC RPD 104 400 3.92 | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 608 | 16.0 | 10/22/2012 | ND | 416 | 104 | 400 | 3.92 | | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | <10.0 | 10.0 | 10/19/2012 | ND | 179 | 89.5 | 200 | 1.14 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/19/2012 | ND | 176 | 87.9 | 200 | 0.0370 | | |
| Surrogate: 1-Chlorooctane | 70.0 | % 65.2-14 | 0 | | | | | | | |

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Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celeg D. Keene



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

(575) 397-1471 Fax To:

Received:

10/18/2012

Sampling Date:

10/17/2012

Reported:

Sampling Type:

Soil

10/24/2012

Sampling Condition:

Cool & Intact

Project Name: Project Number: J.L. KEEL B #25 NONE GIVEN

Sample Received By:

Celey D. Keene

Project Location:

NONE GIVEN

Sample ID: SB 1 @ 10' (H202541-03)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 10/22/2012 | ND | 1.98 | 99.0 | 2.00 | 2.23 | |
| Toluene* | <0.050 | 0.050 | 10/22/2012 | ND | 2.15 | 108 | 2.00 | 2.85 | |
| Ethylbenzene* | <0.050 | 0.050 | 10/22/2012 | ND | 2.16 | 108 | 2.00 | 2.30 | |
| Total Xylenes* | <0.150 | 0.150 | 10/22/2012 | ND | 6.54 | 109 | 6.00 | 2.75 | |
| Surrogate: 4-Bromofluorobenzene (PIL | 104 9 | % 89.4-12 | 6 | | | | | | |
| Chloride, SM4500Cl-B mg/l | | kg | Analyzed By: HM | | | | | | |
| · Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2480 | 16.0 | 10/22/2012 | ND | 416 | 104 | 400 | 3.77 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 10/19/2012 | ND | 166 | 83.2 | 200 | 5.81 | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/19/2012 | ND | 159 | 79.4 | 200 | 9.04 | |
| Surrogate: 1-Chlorooctane | 74.9 | % 65.2-14 | 0 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 79.2 | % 63.6-15 | 4 | | | | | | |

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*=Accredited Analyte

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Celeg & Kune



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

10/18/2012

Sampling Date:

10/17/2012

Reported:

10/24/2012

Sampling Type:

Soil

Project Name:

J.L. KEEL B #25

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN

NONE GIVEN

Sample Received By:

Celey D. Keene

Sample ID: SB 1 @ 20' (H202541-04)

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 | 10/22/2012 | ND | 1.98 | 99.0 | 2.00 | 2.23 | |
| Toluene* | <0.050 | 0.050 | 10/22/2012 | ND | 2.15 | 108 | 2.00 | 2.85 | |
| Ethylbenzene* | <0.050 | 0.050 | 10/22/2012 | ND | 2.16 | 108 | 2.00 | 2.30 | |
| Total Xylenes* | <0.150 | 0.150 | 10/22/2012 | ND | 6.54 | 109 | 6.00 | 2.75 | |
| Surrogate: 4-Bromofluorobenzene (PIE | 102 9 | % 89.4-12 | 6 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: HM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1380 | 16.0 | 10/22/2012 | ND | 416 | 104 | 400 | 3.77 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 10/19/2012 | ND | 166 | 83.2 | 200 | 5.81 | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/19/2012 | ND | 159 | 79.4 | 200 | 9.04 | |
| Surrogate: 1-Chlorooctane | | | | | | | | | |
| | 79.5 | % 65.2-14 | U | | | | | | |

Surrogate: 1-Chlorooctadecane 82.6 % 63.6-154

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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RICE ENVIRONMENTAL CONSULTING & SAFETY

BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

Fax To: (575) 397-1471

Received:

10/18/2012

10/24/2012

Sampling Date: Sampling Type: 10/17/2012

Reported:

Soil

Project Name:

J.L. KEEL B #25

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN NONE GIVEN

76.5 %

63.6-154

Sample Received By:

Celey D. Keene

Sample ID: SB 1 @ 30' (H202541-05)

| BTEX 8021B | mg/ | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 10/22/2012 | ND | 1.98 | 99.0 | 2.00 | 2.23 | |
| Toluene* | <0.050 | 0.050 | 10/22/2012 | ND | 2.15 | 108 | 2.00 | 2.85 | |
| Ethylbenzene* | <0.050 | 0.050 | 10/22/2012 | ND | 2.16 | 108 | 2.00 | 2.30 | |
| Total Xylenes* | <0.150 | 0.150 | 10/22/2012 | ND | 6.54 | 109 | 6.00 | 2.75 | |
| Surrogate: 4-Bromofluorobenzene (PIL | 102 5 | % 89.4-12 | 6 | | | | | | |
| Chloride, SM4500CI-B | mg/ | /kg | Analyze | d By: HM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3760 | 16.0 | 10/22/2012 | ND | 416 | 104 | 400 | 3.77 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 10/19/2012 | ND | 166 | 83.2 | 200 | 5.81 | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/19/2012 | ND | 159 | 79.4 | 200 | 9.04 | |
| Surrogate: 1-Chlorooctane | 71.3 | % 65.2-14 | Λ | | | | | | |

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celey & Keene



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

Fax To:

(575) 397-1471

Received: Reported: 10/18/2012

10/24/2012

Project Name:

J.L. KEEL B #25 NONE GIVEN

Project Number: Project Location:

NONE GIVEN

Sampling Date:

10/17/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: SB 1 @ 40' (H202541-06)

| BTEX 8021B | mg/ | 'kg | Analyze | d By: MS | | | | | |
|--------------------------------------|---------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 10/22/2012 | ND | 1.98 | 99.0 | 2.00 | 2.23 | |
| Toluene* | <0.050 | 0.050 | 10/22/2012 | ND | 2.15 | 108 | 2.00 | 2.85 | |
| Ethylbenzene* | < 0.050 | 0.050 | 10/22/2012 | ND | 2.16 | 108 | 2.00 | 2.30 | |
| Total Xylenes* | < 0.150 | 0.150 | 10/22/2012 | ND | 6.54 | 109 | 6.00 | 2.75 | |
| Surrogate: 4-Bromofluorobenzene (PIL | 103 | % 89.4-12 | 6 | | | | | | |
| Chloride, SM4500Cl-B | mg/kg | | Analyze | d By: HM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1880 | 16.0 | 10/22/2012 | ND | 416 | 104 | 400 | 3.77 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 10/19/2012 | ND | 166 | 83.2 | 200 | 5.81 | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/19/2012 | ND | 159 | 79.4 | 200 | 9.04 | |
| Surrogate: 1-Chlorooctane | 75.3 | % 65.2-14 | 0 | | | | | | , |
| Surrogate: 1-Chlorooctadecane | 81.2 | % 63.6-15 | 4 | | | | | | |

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*=Accredited Analyte

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Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

Fax To: (

(575) 397-1471

Analyzed By: MS

Received:

BTEX 8021B

10/18/2012

Reported:

10/24/2012

Project Name: Project Number: J.L. KEEL B #25 NONE GIVEN

mg/kg

74.0 %

78.5 %

65.2-140

63.6-154

Project Location:

NONE GIVEN

Sampling Date:

10/17/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: SB 1 @ 50' (H202541-07)

| | | 9 | | | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 10/22/2012 | ND | 1.98 | 99.0 | 2.00 | 2.23 | |
| Toluene* | <0.050 | 0.050 | 10/22/2012 | ND | 2.15 | 108 | 2.00 | 2.85 | |
| Ethylbenzene* | <0.050 | 0.050 | 10/22/2012 | ND | 2.16 | 108 | 2.00 | 2.30 | |
| Total Xylenes* | <0.150 | 0.150 | 10/22/2012 | ND | 6.54 | 109 | 6.00 | 2.75 | |
| Surrogate: 4-Bromofluorobenzene (PIE | 103 9 | % 89.4-12 | 6 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | 'kg | Analyze | d By: HM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2560 | 16.0 | 10/22/2012 | ND | 416 | 104 | 400 | 3.77 | |
| TPH 8015M | mg/ | 'kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 10/19/2012 | ND | 166 | 83.2 | 200 | 5.81 | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/19/2012 | ND | 159 | 79.4 | 200 | 9.04 | |
| | | | | | | | | | |

Cardinal Laboratories

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celeg & Keine



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER

112 W. TAYLOR HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

10/18/2012

10/24/2012

Sampling Date:

10/17/2012

Reported:

Sampling Type:

Soil

Project Name:

J.L. KEEL B #25

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN NONE GIVEN

Sample Received By:

Celey D. Keene

Sample ID: SB 1 @ 60' (H202541-08)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 10/22/2012 | ND | 1.98 | 99.0 | 2.00 | 2.23 | |
| Toluene* | <0.050 | 0.050 | 10/22/2012 | ND | 2.15 | 108 | 2.00 | 2.85 | |
| Ethylbenzene* | <0.050 | 0.050 | 10/22/2012 | ND | 2.16 | 108 | 2.00 | 2.30 | |
| Total Xylenes* | <0.150 | 0.150 | 10/22/2012 | ND | 6.54 | 109 | 6.00 | 2.75 | |
| Surrogate: 4-Bromofluorobenzene (PIL | 102 5 | % 89.4-12 | 6 | | | | | | |
| Chloride, SM4500Cl-B mg/kg | | Analyze | d By: HM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1230 | 16.0 | 10/22/2012 | ND | 416 | 104 | 400 | 3.77 | |
| TPH 8015M | mg/ | 'kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 10/19/2012 | ND | 166 | 83.2 | 200 | 5.81 | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/19/2012 | ND | 159 | 79.4 | 200 | 9.04 | |
| Surrogate: 1-Chlorooctane | 79.5 | % 65.2-14 | 0 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 86.0 | % 63.6-15 | 4 | | | | | | |

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Celeg & Keene



RICE ENVIRONMENTAL CONSULTING & SAFETY **BRUCE BAKER**

112 W. TAYLOR HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

10/18/2012

Sampling Type:

10/17/2012

Reported:

10/24/2012

Sampling Date:

Soil

Project Name:

J.L. KEEL B #25

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Celey D. Keene

Project Location:

NONE GIVEN

Sample ID: SB 1 @ 70' (H202541-09)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 10/22/2012 | ND | 1.98 | 99.0 | 2.00 | 2.23 | |
| Toluene* | <0.050 | 0.050 | 10/22/2012 | ND | 2.15 | 108 | 2.00 | 2.85 | |
| Ethylbenzene* | <0.050 | 0.050 | 10/22/2012 | ND | 2.16 | 108 | 2.00 | 2.30 | |
| Total Xylenes* | <0.150 | 0.150 | 10/22/2012 | ND | 6.54 | 109 | 6.00 | 2.75 | |
| Surrogate: 4-Bromofluorobenzene (PIL | 103 9 | % 89.4-120 | 5 | | | | | | |
| Chloride, SM4500Cl-B mg/kg | | kg | Analyzed By: HM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1260 | 16.0 | 10/22/2012 | ND | 416 | 104 | 400 | 3.77 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | r |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 10/19/2012 | ND | 166 | 83.2 | 200 | 5.81 | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/19/2012 | ND | 159 | 79.4 | 200 | 9.04 | |
| Surrogate: 1-Chlorooctane | 76.8 | % 65.2-140 |) | | | | | | |
| Surrogate: 1-Chlorooctadecane | 82.0 | % 63.6-15- | 1 | | | | | | |

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Celeg D. Keine



RICE ENVIRONMENTAL CONSULTING & SAFETY **BRUCE BAKER** 112 W. TAYLOR HOBBS NM, 88240

Fax To: (575) 397-1471

Received: Reported: 10/18/2012

Sampling Date:

10/17/2012

10/24/2012

Sampling Type:

Soil

Project Name:

J.L. KEEL B #25 NONE GIVEN

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN

Sample Received By:

Celey D. Keene

Sample ID: SB 1 @ 80' (H202541-10)

| BTEX 8021B | mg, | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|---------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 10/22/2012 | ND | 1.98 | 99.0 | 2.00 | 2.23 | |
| Toluene* | < 0.050 | 0.050 | 10/22/2012 | ND | 2.15 | 108 | 2.00 | 2.85 | |
| Ethylbenzene* | <0.050 | 0.050 | 10/22/2012 | ND | 2.16 | 108 | 2.00 | 2.30 | |
| Total Xylenes* | <0.150 | 0.150 | 10/22/2012 | ND | 6.54 | 109 | 6.00 | 2.75 | |
| Surrogate: 4-Bromofluorobenzene (PIL | 103 | % 89.4-12 | 6 | | | | | | |
| Chloride, SM4500CI-B | mg/kg | | Analyze | d By: HM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1180 | 16.0 | 10/22/2012 | ND | 416 | 104 | 400 | 3.77 | |
| TPH 8015M | mg, | /kg | Analyze | Analyzed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 10/19/2012 | ND | 166 | 83.2 | 200 | 5.81 | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/19/2012 | ND | 159 | 79.4 | 200 | 9.04 | |
| Surrogate: 1-Chlorooctane | 72.1 | % 65.2-14 | 0 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 75.4 | % 63.6-15 | 4 | | | | | | |

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*=Accredited Analyte

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Celey & Keine



ND

Notes and Definitions

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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| | (505) 393-2326 FAX (505) 393-24 | 77.0 | 132 | .3) 013-1001 1 | | | | | | | | | | | | | | | | |
|----------------------|---|-----------------|--------------|--|----------------------|---|--|---------|-----------|------------|------------|-------|----------------|-------|----|------|--------|---|---|--|
| Company Name | NEGO | | | | 3.3 | BI | LLTO | alalan, | | | | F | NAL | .YSIS | RE | QUES | ST | | | |
| Project Manage | r: Bruce Baker | | | | P.O. # | t: | | | | | | | | | | | | | | |
| Address: | | | | | Comp | any: | | | | | | | S | | | | | | | |
| City: Hobbs | State: NM | Zip | : 88 | 240 | Attn: | | | | | | | | Ö | . | | | | | | |
| Phone #: | Fax #: | | | | Addre | ess: | • • | | | | | - | A- | | - | | | | | |
| Project #: | Project Owner | : | | | City: | | | | က | Σ | | エ | S | | | | | | | |
| Project Name: | - | ****** | | | State | | Zip: | | je | 15 | × | TPH | 6 | (0) | | | | 1 | | |
| Project Location | : J.L. heel B # 25 | | | | Phon | e #: | nista da a a galera cida qual describir de sidencia de constitución de secuencia de constitución de constituci | | Chlorides | 801 | ВТЕХ | S | Cations/Anions | TDS | | | | 1 | | |
| Sampler Name: | Kyle Norman | | | | Fax# | : | | | 걸 | | <u>B</u> | ă | 0 | - | | | | 1 | | |
| FOR LAB USE ONLY | | | | MATRIX | PR | ESERV | SAMPL | ING | Ö | ЬH | | Texas | क | ٠ | | | | 1 | | |
| Lab I.D. H202541- | Sample I.D. | (G)RAB OR (C)OM | # CONTAINERS | GROUNDWATER WASTEWATER SOIL OIL SLUDGE | OTHER: ACID/BASE: | ICE / COOL OTHER: | DATE | TIME | | · | | | Complete | | | | | | | |
| 0] | SB1@Surface | 3 | \perp | 1// | | <u> / </u> | 10-17-12 | | V | <i>V</i> , | 1 | | | | | | | | | |
| | 5810 5' | 3 | 1 | | <u> </u> | <u>V, </u> | 0-17-12 | | 1 | -4 | <i>V</i> , | | | | | | | | · | |
| | SBI @ 10' | 4 | 1 | | | V_{\perp} | 10-17-12 | 3;12 | V, | <u></u> | ¥, | | | | | | | | | |
| | 581 @ 20' | Ģ. | 1 | _ _ /, | | <u> </u> | 10-17-12 | | 1/ | ✓, | V | | | | | | | | | |
| | SBI @ 30' | 込 | 1 | | | \mathbb{A} | 10-17-12 | | V, | ¥,_ | V/ | | | | | | | | | |
| 06 | SBIC 40' | ČΤ | 1 | - - 4 - - | | $\forall \bot$ | 10-17-12 | | 1/ | <i>V</i> , | 1, | | | | | | | | | |
| | 5BI @ 50° | G_{\perp} | 1 | | | <u> V, </u> _ | | 4:29 | <i>V</i> | <u></u> | 1/ | | | | | | | | | |
| ୍ଧ | 5B1@ 60' | S_ | ſ | | | <u> V, _ </u> | 1 | 4:32 | <i>V</i> | 1/_ | 1/_ | | | | | | | | | |
| 09 | SBI @ 70' | 'n. | 1 | - - 4/ - - | _ _ | <u> </u> | 10-17-12 | | <u>V</u> | 1/_ | 1 | | | | | | | | | |
| | SB1 @ 80 4 and Damages, Cardinal's kability and client's exclusive remedy to: a | G | | | outer chi | IV | 10-17-12 | | <u> </u> | V | √ | | | | | | لبـــا | | 1 | |

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| amages of successors amang out or or related to the performance i | DI RELAICES HELEGNIDEL DA CH | numer, regardress of witerier sour year | in a based open any or are above acated to | asons or sectimat. |
|---|------------------------------|---|--|--|
| Relinguished By: | Date: | Received By:/ // | | Phone Result: ☐ Yes ☑ No Add'l Phone#: |
| 3 1 1 | 10-18-12 | 71 77 17 | | Fax Result: ☐ Yes ☑ No Add'l Fax #: |
| Religioushed By: | Time; 40 | aluly | Oon O | REMARKS: |
| Relinquished By: | Date: | Received By: | JW/0 C | email results |
| | Time: | | | Knorman@rice-ecs.com |
| | Time. | U | | |
| | | | | Bbaker@rice-ecs.com; hconder@rice-ecs.com; |
| Delivered By: (Circle One) | | Sample Cond | dition CHECKED BY: | |
| | | Cool Intact | t (Ipitials) | Lweinheimer@rice-ecs.com |
| Sampler - UPS - Bus - Other: | ^ | Yes QY | les CNI | 2.00.111011101101000000111 |
| Campion C. C. Duo . Calci. | -0 | | No TULL | |

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



November 09, 2012

BRUCE BAKER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

112 W. TAYLOR

HOBBS, NM 88240

RE: J.L. KEEL B #025

Enclosed are the results of analyses for samples received by the laboratory on 11/07/12 9:55.

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 accredited certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR

HOBBS NM, 88240

Fax To: (575) 397-1471

Received: Reported: 11/07/2012

11/09/2012

Project Name: Project Number: J.L. KEEL B #025 BLM # 11NU094TG

Project Location:

NONE GIVEN

Sampling Date:

11/06/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: VERTICAL #2 @ 4' (H202710-01)

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

| Chloride, Stribover B | | , ···9 | 711101720 | | | | | | |
|-----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 11/07/2012 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <50.0 | 50.0 | 11/08/2012 | ND | 189 | 94.5 | 200 | 4.87 | |
| DRO >C10-C28 | 99.1 | 50.0 | 11/08/2012 | ND | 204 | 102 | 200 | 9.18 | |
| | | | | | | | | | |

Surrogate: 1-Chlorooctane

88.3 %

65.2-140

Surrogate: 1-Chlorooctadecane

99.4%

108 %

63.6-154

63.6-154

Sample ID: VERTICAL #2 @ 5' (H202710-02)

| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: HM | | | | | |
|---------------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 11/07/2012 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | _ |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <50.0 | 50.0 | 11/08/2012 | ND | 189 | 94.5 | 200 | 4.87 | |
| DRO >C10-C28 | 508 | 50.0 | 11/08/2012 | ND | 204 | 102 | 200 | 9.18 | |
| Surrogate: 1-Chlorooctane | 92.6 | % 65.2-14 | 0 | | | | | | |

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celeg & Keine

Celey D. Keene, Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR

HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

11/07/2012

Sampling Date:

11/06/2012

Reported:

11/09/2012

Sampling Type:

Soil

Project Name:

J.L. KEEL B #025

Sampling Condition:

Cool & Intact

Project Number:

BLM # 11NU094TG

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: VERTICAL #2 @ 6' (H202710-03)

| Chloride, SM4500CI-B | mg, | /kg | Analyze | d By: HM | | | | | |
|-------------------------------|--------|-----------------|------------|---------------------------------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 160 | 16.0 | 11/07/2012 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 11/08/2012 | ND | 189 | 94.5 | 200 | 4.87 | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/08/2012 | ND | 204 | 102 | 200 | 9.18 | |
| Surrogate: 1-Chlorooctane | 91.9 | % 65.2-14 | 0 | · · · · · · · · · · · · · · · · · · · | | | | | |
| Surrogate: 1-Chlorooctadecane | 105 | % 63.6-15 | 4 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keine



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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| Company Name | : RECS | | *************************************** | | | | | | W 2 | B | LLTO | | | | | | ANA | LYSI | S RE | QUE | ST | | | |] |
|------------------------------|--|--|---|---------|--------------------|----------|----------|---------|-------------|-------------|----------------------|-----------------------|--------|--------|--|----------|----------|--|--------------|---------|------------|--|--|----------|---|
| Project Manage | i: BRUCE Baker | | | | ~ | | | P.C |).#: | | | | | | | | | | | | | | | | 7 |
| Address: | • • | | | | | | | Co | mpa | ny: | | | | | | | | | | | | | | | |
| City: | s State: | Zip |): | | | | | Att | n: | | | | | | | | | | | | | 1 | | | 1 |
| Phone #: | Fax #: | | | | | | | Add | dres | s: | | ~~ | | | | | | | | | | - | | | ŀ |
| Project #: | Project Own | er: | | | | | | City | y: | | • | **************** | | | | | | | | | 1 | | | | |
| Project Name: | J.L. Keel # 025 1: BUM# 11 NUØ9 Dakston Harris | | | | | | | Sta | te: | | Zip: | | | | | | 1 | | | | | | | .] | |
| Project Location | :: BLM# 11NUØ9 | 41 | G | | | | | Pho | one i | ¥: | | | | _ | | | | | | | | 1 | | l | |
| Sampler Name: | Dakston Herris | | | | | | | Fax | | | | - | | FUSTY | | | |] . | | | | | | | |
| FOR LAB USE ONLY | | Ι. | | _ | MA | TRI) | X | _ | PRE | SERV | SAMPL | NG | - | 13 | 1 | | | | | | | | | | |
| | · | (C)OMP. | 6 | H. | | | | | l | | | | | 00 | | | 1. | | | | | | | | |
| Lab I.D. | Comple I D | (C) | # CONTAINERS | MAT | WASTEWATER SOIL | - | | | ŭİ. | _ | | | 1 | | | | | | | | | | | 1 | ı |
| Lau I.D. | Sample I.D. | B OR | TAI | QN | EW | | 핑 | ä | BAS | 3 : | | | 1 | 12 | | | | | | | | | | 1 | |
| H202710 | | (G)RAB | Ő | P.O. | WAST | ١ | SLUDGE | ͳ | ACID/BASE: | OTHER OTHER | DATE | TIME | 0 | 11- | | | | | | | | | | | ľ |
| 1200110 | Vertical #2 0, 4' | Ī | : <u>*</u> | 10 | SIS | 10 | S | 0 | 41 | ** | 11-6-12 | | V | V | | | 1- | | | 1 | 1 | | | 1 | 1 |
| 2 | Vertica #2 & 4' Vertica #2 & 5' Vertica #2 & 6' | 1/- | 亇 | 1 | 17 | T | T | | 1 | 十 | 11-6-12 | | 1 | 1 | | | | | | 1 | | | l | | - |
| 3 | Vertical ADE 6' | Z | 17 | 1 | 1 | 1 | | | | 1 | 11-6-12 | 2:30 | V | V | | | | | | | | | | | |
| | | | | | | | | | \Box | | | | | | | | | | · | · | | | | | |
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| | | _ _ | _ | _ | | _ | | | 1 | \perp | | | . | | | <u> </u> | | | | | <u> </u> | | | <u> </u> | |
| | | _ _ | _ | _ | | <u> </u> | | | _ | | | | | | | . | <u> </u> | | <u> </u> | | | | | | _ |
| | | _ _ | - | _ | $\vdash \vdash$ | _ | | | - | _ | | | | | <u> </u> | . | ļ | | | | ļ <u>.</u> | <u> </u> | | ļ | - |
| | | _ _ | - | _ | - - | - | \vdash | | + | | | | | | | . | ļ | | ļ | ļ | | <u> </u> | ļ | | - |
| PLEASE NOTE: Listality at | nd Damages, Cardinal's liability and client's exclusive remoty | or any cla | im ana | ing wit | tether base | d in co | antract | or tort | , shell t | e limiter | t to the amount pai | id by the client to | or the | | ــــ | ببل | <u> </u> | <u> </u> | | <u></u> | <u></u> | | <u> </u> | | ١ |
| service. In no event shall C | ng those for negligence and any other cause whatsoever shall arginal be liable for inclujuntal or consequental damages, inclu | ding with | aut fürrät | bation, | business in | terrupt | tons, k | eas of | use, or | loss of | profes incurred by a | dent, its subsidi | acies, | able | | | • | | | | • " | • | | - | , |
| Relinguished B | industration of related 2 the performance of services hereunder: | _ | | | By; | such | clalm k | buse | d upon ~ | any of f | he above stated to | Phone Re | | . 🔾 Ye | | No | lAdd'l | | #ï | | | ······ | | | ٦ |
| 1 /20 | to Their The | H/ | | N | 7 | 1 | No | 11 | Λ. | R | 'A | Fax Resu REMARK | | O Ye | s 🛚 | No | [Add'l | Fax#: | | | | · | | | - |
| Dalla and about B | 9:15 | 2/2 | ecei | 1 | | ير | 40 | NU | <u>u</u> | V | <u></u> | i | | .0. | | _ | | | | | | | | | |
| Relinquished B | | | ecei | veu | ъу. | | | | | | | 13.6 14.00 2 Ne | enger. | C / ' | // C.~ | CC5 | COP | 1 | | - | | | | | |
| | Time: | and the same of th | | | | | | | | | - | 1700 | ncci | 62 |) — ري : صسم | : (.); | COM | 7 | • | | | - | | | |
| Delivered By | : (Circle One) | | | | Sample | Inta | ct/ | · [| C | HEC | KED BY: | | | | | | | | m | | | | | | |
| Sampler - UPS | - Bus - Other: | | | | Ye. | | Yes | | | 7 | 积 | * Ada | lid | be | Δmi | 11 | 191 | 1 _ | | | | _ | | | |

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



November 19, 2012

BRUCE BAKER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

112 W. TAYLOR

HOBBS, NM 88240

RE: J. L. KEEL #025

Enclosed are the results of analyses for samples received by the laboratory on 11/14/12 16:50.

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 accredited certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER
112 W. TAYLOR

HOBBS NM, 88240

Fax To: (575) 397-1471

Received:

11/14/2012

Sampling Date:

11/14/2012

Reported:

11/19/2012

Sampling Type:

Soil

Project Name:

J. L. KEEL #025

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location:

EVENT #11NU094TG NONE GIVEN

Sample ID: N. WALL CENTER (H202769-01)

| BTEX 8021B | mg/ | /kg | Analyze | d By: AP | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/16/2012 | ND | 1.66 | 83.0 | 2.00 | 10.7 | |
| Toluene* | <0.050 | 0.050 | 11/16/2012 | ND | 1.96 | 97.9 | 2.00 | 10.7 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/16/2012 | ND | 2.00 | 100 | 2.00 | 11.0 | |
| Total Xylenes* | <0.150 | 0.150 | 11/16/2012 | ND | 6.04 | 101 | 6.00 | 11.2 | |
| Total BTEX | <0.300 | 0.300 | 11/16/2012 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIE | 119 9 | % 89.4-12 | 6 | , | | | | | |
| Chloride, SM4500Cl-B | mg/ | 'kg | Analyze | d By: HM | | | _ | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 11/19/2012 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 11/16/2012 | ND | 195 | 97.7 | 200 | 1.85 | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/16/2012 | NĐ | 211 | 105 | 200 | 3.20 | |
| Surrogate: 1-Chlorooctane | 86.4 | % 65.2-14 | 0 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 98.0 | % 63.6-15 | 4 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

Fax To: (575) 397-1471

Received:

11/14/2012

Sampling Date:

11/14/2012

Reported:

11/19/2012

Sampling Type:

Soil

Project Name:

J. L. KEEL #025

Sampling Condition:

Cool & Intact

Project Number:

EVENT #11NU094TG

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: S. WALL CENTER (H202769-02)

| BTEX 8021B | mg/ | kg | Analyze | d By: AP | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/16/2012 | ND | 1.66 | 83.0 | 2.00 | 10.7 | |
| Toluene* | <0.050 | 0.050 | 11/16/2012 | ND | 1.96 | 97.9 | 2.00 | 10.7 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/16/2012 | ND | 2.00 | 100 | 2.00 | 11.0 | |
| Total Xylenes* | <0.150 | 0.150 | 11/16/2012 | ND | 6.04 | 101 | 6.00 | 11.2 | |
| Total BTEX | <0.300 | 0.300 | 11/16/2012 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 118 9 | % 89.4-12 | 6 | | | | | | • |
| Chloride, SM4500CI-B | mg/kg | | Analyze | d By: HM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 11/19/2012 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 11/16/2012 | ND | 195 | 97.7 | 200 | 1.85 | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/16/2012 | ND | 211 | 105 | 200 | 3.20 | |
| Surrogate: 1-Chlorooctane | 82.7 | % 65.2-14 | 0 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 94.5 | % 63.6-15 | 4 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keene



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR

HOBBS NM, 88240 Fax To:

(575) 397-1471

Received: Reported: 11/14/2012

11/19/2012

Project Name:

J. L. KEEL #025

Project Number:

EVENT #11NU094TG

93.2 %

63.6-154

Project Location:

NONE GIVEN

Sampling Date:

11/14/2012

Sampling Type: Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S. WALL E. END (H202769-03)

| BTEX 8021B | mg/ | /kg | Analyze | d By: AP | | | | | |
|---|---------------|-----------------|----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/16/2012 | ND | 1.66 | 83.0 | 2.00 | 10.7 | |
| Toluene* | <0.050 | 0.050 | 11/16/2012 | ND | 1.96 | 97.9 | 2.00 | 10.7 | |
| Ethylbenzene* | < 0.050 | 0.050 | 11/16/2012 | ND | 2.00 | 100 | 2.00 | 11.0 | |
| Total Xylenes* | <0.150 | 0.150 | 11/16/2012 | ND | 6.04 | 101 | 6.00 | 11.2 | |
| Total BTEX | <0.300 | 0.300 | 11/16/2012 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIE | 119 | % 89.4-12 | 6 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | /kg | Analyze | d By: HM | , | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifie |
| Chloride | 416 | 16.0 | 5.0 11/19/2012 | | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifie |
| GRO C6-C10 | <10.0 | 10.0 | 11/16/2012 | ND | 195 | 97.7 | 200 | 1.85 | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/16/2012 | ND | 211 | 105 | 200 | 3.20 | |
| DRO >C10-C28 Surrogate: 1-Chlorooctane | <10.0 86.5 | | | ND | 211 | 105 | 200 | 3.20 | |

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celey D. Keine



RICE ENVIRONMENTAL CONSULTING & SAFETY **BRUCE BAKER**

112 W. TAYLOR HOBBS NM, 88240

Fax To: (575) 397-1471

Received:

11/14/2012

Sampling Date:

11/14/2012

Reported:

11/19/2012

Sampling Type:

Soil

Project Name:

J. L. KEEL #025

Sampling Condition:

Cool & Intact

Project Number:

EVENT #11NU094TG

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: W. WALL S. END (H202769-05)

| BTEX 8021B | mg/ | kg | Analyze | d By: AP | | | | | |
|--------------------------------------|------------------------|-----------------|------------|--------------|------|------------|---------------------------------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/16/2012 | ND | 1.66 | 83.0 | 2.00 | 10.7 | |
| Toluene* | <0.050 | 0.050 | 11/16/2012 | ND | 1.96 | 97.9 | 2.00 | 10.7 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/16/2012 | ND | 2.00 | 100 | 2.00 | 11.0 | |
| Total Xylenes* | vlenes* <0.150 | | 11/16/2012 | ND | 6.04 | 101 | 6.00 | 11.2 | |
| Total BTEX | <0.300 | 0.300 | 11/16/2012 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 121 % | 6 89.4-12 | 6 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result Reporting Limit | | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 11/19/2012 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 11/16/2012 | ND | 191 | 95.3 | 200 | 1.29 | |
| DRO >C10-C28 | .0-C28 <10.0 10.0 | | 11/16/2012 | ND | 206 | 103 | 200 | 1.52 | |
| Surrogate: 1-Chlorooctane | 80.5 | % 65.2-14 | 0 | | | | · · · · · · · · · · · · · · · · · · · | | |
| Surrogate: 1-Chlorooctadecane | 90.1 | 63.6-15 | 4 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Keene



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER

112 W. TAYLOR HOBBS NM, 88240

Fax To: (575) 397-1471

Received:

11/14/2012

Sampling Date:

11/14/2012

Reported:

DTEV 0034 B

11/19/2012

Sampling Type:

Soil

Project Name:

J. L. KEEL #025

Sampling Condition:

Cool & Intact

Project Number:

EVENT #11NU094TG

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: N. WALL W. END (H202769-07)

| BTEX 8021B | mg/ | kg | Analyze | d By: AP | | | | | |
|--------------------------------------|------------------|--------------------|---------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/16/2012 | ND | 1.66 | 83.0 | 2.00 | 10.7 | |
| Toluene* | <0.050 | 0.050 | 11/16/2012 | ND | 1.96 | 97.9 | 2.00 | 10.7 | |
| Ethylbenzene* | < 0.050 | 0.050 | 11/16/2012 | ND | 2.00 | 100 | 2.00 | 11.0 | |
| Total Xylenes* | < 0.150 | 0.150 | 11/16/2012 | ND | 6.04 | 101 | 6.00 | 11.2 | |
| Total BTEX | <0.300 | 0.300 | 11/16/2012 ND | | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIE | 120 % | 6 89. <i>4-126</i> | 5 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 16.0 | | 11/19/2012 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 10.0 | | 11/16/2012 | ND | 191 | 95.3 | 200 | 1.29 | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/16/2012 | ND | 206 | 103 | 200 | 1.52 | |
| Surrogate: 1-Chlorooctane | 76.9 | 65.2-140 |) | | | | | | |
| Surrogate: 1-Chlorooctadecane | 84.79 | % 63.6-154 | | | | | | | |

Ameliana d Director

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Keene



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

11/14/2012

Sampling Date:

11/14/2012

Reported:

11/19/2012

Sampling Type:

Soil

Project Name:

J. L. KEEL #025

Sampling Condition:

Cool & Intact

Project Number:

EVENT #11NU094TG

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: PT. 2 BOTTOM (H202769-08)

| BTEX 8021B | mg/ | kg | Analyze | d By: AP | | | | | |
|--------------------------------------|------------------------|-----------------|---------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/16/2012 | ND | 1.66 | 83.0 | 2.00 | 10.7 | |
| Toluene* | <0.050 | 0.050 | 11/16/2012 | ND | 1.96 | 97.9 | 2.00 | 10.7 | |
| Ethylbenzene* | e* <0.050 0.050 | | 11/16/2012 | ND | 2.00 | 100 | 2.00 | 11.0 | |
| Total Xylenes* | es* <0.150 0.150 | | 11/16/2012 | ND | 6.04 | 101 | 6.00 | 11.2 | |
| Total BTEX | <0.300 | 0.300 | 11/16/2012 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 122 % | 6 89.4-12 | 6 | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result Reporting Limit | | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 608 | 16.0 | 11/19/2012 ND | | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 11/16/2012 | ND | 191 | 95.3 | 200 | 1.29 | |
| DRO >C10-C28 | 57.0 | 10.0 | 11/16/2012 | ND | 206 | 103 | 200 | 1.52 | |
| Surrogate: 1-Chlorooctane | 83.1 9 | % 65.2-14 | 0 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 92.4 | % 63.6-15 | 4 | | | | | | |

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RICE ENVIRONMENTAL CONSULTING & SAFETY **BRUCE BAKER** 112 W. TAYLOR HOBBS NM, 88240

(575) 397-1471

Received:

11/14/2012

Sampling Date:

11/14/2012

Reported:

11/19/2012

Sampling Type:

Soil

Project Name:

J. L. KEEL #025

Sampling Condition:

Cool & Intact

Project Number:

EVENT #11NU094TG

Project Location:

NONE GIVEN

Sample Received By:

Jodi Henson

Sample ID: W. WALL CENTER (H202769-09)

| BTEX 8021B | mg/ | kg | Analyze | d By: AP | | | | | |
|--------------------------------------|-----------------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/16/2012 | ND | 1.66 | 83.0 | 2.00 | 10.7 | |
| Toluene* | <0.050 | 0.050 | 11/16/2012 | ND | 1.96 | 97.9 | 2.00 | 10.7 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/16/2012 | ND | 2.00 | 100 | 2.00 | 11.0 | |
| Total Xylenes* | <0.150 | 0.150 | 11/16/2012 | ND | 6.04 | 101 | 6.00 | 11.2 | |
| Total BTEX | <0.300 | 0.300 | 11/16/2012 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 120 % | % 89.4-12 | 6 | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 144 16.0 | | 11/19/2012 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 10.0 | | 11/16/2012 | ND | 191 | 95.3 | 200 | 1.29 | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/16/2012 | ND | 206 | 103 | 200 | 1.52 | |
| Surrogate: 1-Chlorooctane | 83.1 5 | % 65.2-14 | 0 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 93.6 | % 63.6-15 | 4 | | | | | | |

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RICE ENVIRONMENTAL CONSULTING & SAFETY **BRUCE BAKER** 112 W. TAYLOR HOBBS NM, 88240

Fax To: (575) 397-1471

Received:

11/14/2012

Reported:

11/19/2012

Project Name: Project Number: J. L. KEEL #025

Project Location:

EVENT #11NU094TG NONE GIVEN

Sampling Date:

11/14/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: W. WALL N. END (H202769-10)

| BTEX | 8021B | |
|------|-------|---|
| | | A |

| mg/kg | |
|-------|--|
|-------|--|

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|--------------------------------------|-----------------------|--------------------------------|-----------------------------|---------------------------|-----------|-------------------|----------------------|-------------|------------------------|
| Benzene* | <0.050 | 0.050 | 11/16/2012 | ND | 1.66 | 83.0 | 2.00 | 10.7 | |
| Toluene* | <0.050 | 0.050 | 11/16/2012 | ND | 1.96 | 97.9 | 2.00 | 10.7 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/16/2012 | ND | 2.00 | 100 | 2.00 | 11.0 | |
| Total Xylenes* | <0.150 | 0.150 | 11/16/2012 | ND | 6.04 | 101 | 6.00 | 11.2 | |
| Total BTEX | <0.300 | 0.300 | 11/16/2012 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 119 | % 89.4-12 | 6 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | d By: AP | | | | | |
| | | | | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Analyte Chloride | Result 32.0 | Reporting Limit | Analyzed 11/19/2012 | Method Blank ND | BS 416 | % Recovery | True Value QC 400 | RPD 0.00 | Qualifier |
| • | | 16.0 | 11/19/2012 | | | , | • | | Qualifier |
| Chloride | 32.0 | 16.0 | 11/19/2012 | ND | | , | • | | Qualifier Qualifier |
| Chloride TPH 8015M | 32.0 mg, | 16.0 /kg | 11/19/2012 Analyze | ND d By: MS | 416 | 104 | 400 | 0.00 | |
| Chloride TPH 8015M Analyte | 32.0 mg, Result | 16.0 /kg Reporting Limit | 11/19/2012 Analyze Analyzed | ND d By: MS Method Blank | 416 BS | 104 % Recovery | 400 True Value QC | 0.00 | |

Surrogate: 1-Chlorooctadecane

82.2 %

63.6-154

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Celeg D. Keine



RICE ENVIRONMENTAL CONSULTING & SAFETY **BRUCE BAKER** 112 W. TAYLOR HOBBS NM, 88240 (575) 397-1471

Fax To:

Received: Reported: 11/14/2012

11/19/2012

Project Name: Project Number: J. L. KEEL #025 EVENT #11NU094TG

Project Location:

NONE GIVEN

Sampling Date:

11/14/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: N. WALL S. END (H202769-11)

| BTEX 8021B | mg/ | kg | Analyze | d By: AP | | | | | |
|--------------------------------------|------------------|-----------------|---------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/16/2012 | ND | 1.66 | 83.0 | 2.00 | 10.7 | |
| Toluene* | <0.050 | 0.050 | 11/16/2012 | ND | 1.96 | 97.9 | 2.00 | 10.7 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/16/2012 | ND | 2.00 | 100 | 2.00 | 11.0 | |
| Total Xylenes* | <0.150 | 0.150 | 11/16/2012 | ND | 6.04 | 101 | 6.00 | 11.2 | |
| Total BTEX | <0.300 | 0.300 | 11/16/2012 ND | | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIC | 119 9 | % 89.4-12 | 6 | | | | | | - |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 16.0 | | 11/19/2012 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 10.0 | | 11/16/2012 | ND | 191 | 95.3 | 200 | 1.29 | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/16/2012 | ND | 206 | 103 | 200 | 1.52 | |
| Surrogate: 1-Chlorooctane | 85.5 | % 65.2-14 | 0 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 93.3 | % 63.6-15 | , | | | | | | |

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RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

Fax To: (575) 397-1471

Received:

11/14/2012

Sampling Date:

11/14/2012

Reported:

11/19/2012

Sampling Type:

Soil

Project Name:

J. L. KEEL #025

Sampling Condition:

Cool & Intact

Project Name: Project Number: EVENT #11NU094TG

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: BOTTOM PT. 1 (H202769-12)

| BTEX 8021B | mg/ | kg | Analyze | d By: AP | | | | | |
|--------------------------------------|------------------------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 11/17/2012 | ND | 1.66 | 83.0 | 2,00 | 10.7 | |
| Toluene* | <0.050 | 0.050 | 11/17/2012 | ND | 1.96 | 97.9 | 2.00 | 10.7 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/17/2012 | ND | 2.00 | 100 | 2.00 | 11.0 | |
| Total Xylenes* | <0.150 | 0.150 | 11/17/2012 | ND | 6.04 | 101 | 6.00 | 11.2 | |
| Total BTEX | <0.300 | 0.300 | 11/17/2012 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 120 % | % 89.4-12 | 6 , | 0 | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result Reporting Limit | | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 16.0 | | 11/19/2012 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result Reporting Limit | | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 11/16/2012 | ND | 191 | 95.3 | 200 | 1.29 | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/16/2012 | ND | 206 | 103 | 200 | 1.52 | |
| Surrogate: 1-Chlorooctane | 81.7 | % 65.2-14 | 0 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 90.8 | % 63.6-15 | 4 | | | | | | |

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*=Accredited Analyte

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Celey & Keene



ND

Notes and Definitions

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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories *=Accredited Analyte

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Celeg L. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| Company Name | : KECS | | an Naziona propieda de la compansión de la | TTT TOTAL CLASS CO. | E-j. | - BI | LLTO | | 1 | THE STREET | | . CERTAPENCE I | ANA | LYSI | S RE | QUE | ST | CONTRACTOR | | Character and the factor (and the factor) |
|--|--|------------------|--|---|-----------|------------------------------------|---------------------------------------|--|--|--------------|-------------|----------------|----------------|----------------|------|----------|---------------|--------------|---|---|
| Project Manage | ect Manager: Broité, Britér ress: | | | | | | AND THE PERSON NAMED IN COLUMN STREET | 21.01-14- May | | | | - | | | | | 7 | | *************************************** | |
| Address: | -2 42 | | | | Ċo | inpany: | | | | | | | | | 1 | | | | | |
| City: | State: | Zip: | | | Aii | n: | | | | 1 | ļ | | | | | | | | | |
| Phone #: | Fax #: | | | | Ad | dress: | | | | | | | | | | | | | | |
| Project #: | Project O | wner: | ·n 4·y | | Cit | y: | | .,, | | | | | | | | j | | | • | |
| Project Name: | J.L. Kel # 68 025 | | | | Sta | ite: | Zip: | | | | İ | | | | - | | | ĺ | [| |
| Project Location Sampler Name: | DOX HOW BY FUND # 1 | INIUO | 9450 | · ···· · · | Ph Fa: | one #: x #: | ., | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | | | MATRIX | | PRESERV | SAMPL | ING | | | | | | | | | İ | | | |
| Lab I.D. | Sample f.D. | (G)RAB OR (C)OMP | # CONTAINERS GROUNDWATER WASTEWATER | SOIL | OTHER: | ACID/BASE: ICE / COOL OTHER: | DATE | TIME | 0) | HAL | B-Tey | | | | | | | | | |
| | N. Wall Confer | 6- | | 1 | | | 11-14-12 | 1943 | 1 | U | 1,1 | | | | - | | | | | |
| 3 | 5, Wall Center | 6-1 | 7 | 0' | | 6 | 11-14-12 | ! | 5 | 1 | v' | | | | | | | | | |
| (3) | 5, War E. End | 6- |) [| i i | | 17 | 11-14-19 | | V | V | 7 | / | | | | | | | | |
| 4 | s, wast W. End | <u> </u> |] } | V | | <u> </u> | | 19198 | | V | | | | | | | | | | |
| . 5 | Williams, End PT. 3 Bethy | 6- | /.[] | $[\nu]$ | | [V] | | 19130 | 1 | V | ¥ | ļ | | | | ٠. | | | | |
| <u> </u> | Mi wan to end | | / | | | | 1174.19 | 12732 | W/V | i" | V | | - | ļ | | ļ | ļ | · | | ļ |
| 1 | Prig Buttom | · 6- 6- | <u> </u> | | | | 11-14-12 | | <u> </u> | 1/4 | 1 | ļ | - | | | | | | | |
| | W. Wall center | - 2 | \leftarrow | W - | | | 11-14-19 | | 1 | | 17 | | | | | | l | <u>-</u> | | |
| 4 | N. Will N. JEND | 6-1 | 十十 | 1 | +- | | 11-121-10 | | -p' | - J | 1 | <u> </u> | - | | | <u> </u> | | - | | |
| PLEASE NOTE: Liability ar | of Damages. Cardinats liability and client's exclusive renging these for negligence and any other cause whatscever | | | | | | to the amount pa | id by the client to | | hte | | | | .) | | | - | A | | - |
| | ardinal be liable for incidental or consequental damages, my only of or related to the performance of services heroes | | | | | | | | | | | - | | | | | | | | |
| Relinguished By | The state of the s | Rec | eived By () ДД | | le | MO | 11. | Phone Re Fax Resu REMARK | lt: | ☐ Ye ☐ Ye | | No No | Add'i Add'i | Phone Fax#: | #: | | | | | |
| Relinquished By | Date: | Rec | eived By | ·: | | r. 44. T | | ** | | | | | | | | | | | | |
| | (Circle One) - Bus - Other: | | Co | nple Cond of Julact Yes 🛂 Y No] I | 1 | | (ED BY: | a hospital de la company de la | | | | | | | • | | | | | |



444

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| | ompany Name: Rec 5 roject Manager: BONC BEKIS ddress: | | | | | | CHERRY M. | M. S. (17) | | | 1 | 3// | LLTO | | | | | | | ANA | LYSI | S RE | QUE | ST | | | |
|---|---|--------------------------|-------------------------|--------------|--|------------|-----------|--------------|---------|---------------|------------|---------------|--------------------|-------------------------------|-------------|--------|----------------|------------|----------|--------------|-----------------|----------|----------|----|-----|---|---------------|
| Project Manage | TI BONCE BEKES | | | | | | | | P.(| 9. <i>#</i> ; | : | | | | | | | | | | | | | | | | |
| Address: | | | | <u>1</u> | | · | | | Co | เกอ | any: | : | | | | 1 | | | | | | | | | | | |
| City: | | State: | Zij |): | | | | | Aii | n: | | | | | _ | | | |] | | |] |] | | | | |
| Phone #: | | Fax #: | | | | | · | | Αd | dres | 55: | | | | _ | | l | | | | | | | | ł | | |
| Project #: | | Project Owner | : | | | | | | Cit | y: | | | | | _ | | | | | | | 1 | | | | | |
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| FOR LAB USE ONLY | | | Ť | Ť 2/ | | M/ | TRI | | | | SE | R۷ | SAMPL | NG | _ | | | | | | | } | | | | | |
| Lab I.D. | Sample I.I N. いのナミッとの あけれり アデナ | | C. G. (G)RAB OR (C)OMP. | # CONTAINERS | GROUNDWATER | WASTEWATER | OIL | SLUDGE | отнек: | ACID/BASE: | ICE / COOL | OTHER: | DATE | TIME | | , , | TYH | 18-73 | | | | | | 0 | | | |
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| enalyses. All claims includ | nd Damages. Cold nal's liability and clier ing those for negligence and any other co | ause whatsoever shall be | deeme | daw b | d unle | s made | in wit | ing and | i secel | lved by | : Cardi | inal w | ithin 30 days af: | r completion of | the appli | icable | | | | | | | | | | | |
| difficates or nucressors and | ardinal be liable for incidental or conseq ing out of or plateil to the pollermance of | | arding | l. mpm | riles: e | Cobellie | | | | | | | | adone or others | det. | | | | | ************ | | - | | | *** | - | |
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| Relinquished B | Relinquished By: Date: Recoived By: Time: | | | | <u>, </u> | .S2. | 1 | | V. | | 13 i | bejer tond | 50 200 | | | | | | | | | | | | | | |
| Delivered By: (Circle One) Sample Cool Inta Sampler - UPS - Bus - Other: No No No | | | | | nditi ict/ Yes No | on s | | CHE | CK | ED BY: | | | | | | | | | | | | | | | | | |

[†] Cardinal cannot accept verbal changes. Please fax written changes to (575), 393-9326



December 07, 2012

BRUCE BAKER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

112 W. TAYLOR

HOBBS, NM 88240

RE: J. L. KEEL #025

Enclosed are the results of analyses for samples received by the laboratory on 12/03/12 8:25.

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

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

Fax To:

(575) 397-1471

Analyzed Ry: AD

Received:

12/03/2012

Sampling Date:

11/29/2012

Reported:

DTEV 9021B

12/07/2012

Sampling Type:

Soil

Project Name:

J. L. KEEL #025

Sampling Condition:

Cool & Intact

Project Number:

EVENT #11NU094TG

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: IMPORTED SOIL (H202894-01)

| BTEX 8021B | mg/kg | | Analyzed By: AP | | | | | | |
|--------------------------------------|---------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 12/06/2012 | ND | 1.88 | 93.8 | 2.00 | 17.8 | |
| Toluene* | <0.050 | 0.050 | 12/06/2012 | ND | 2.04 | 102 | 2.00 | 17.2 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/06/2012 | ND | 1.96 | 98.0 | 2.00 | 18.3 | |
| Total Xylenes* | < 0.150 | 0.150 | 12/06/2012 | ND | 5.92 | 98.6 | 6.00 | 18.5 | |
| Total BTEX | <0.300 | 0.300 | 12/06/2012 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PIL | 122 9 | % 89.4-120 | 6 | | | | | | |
| Chloride, SM4500CI-B | mg/kg | | Analyzed By: HM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 12/04/2012 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 12/04/2012 | ND | 193 | 96.3 | 200 | 5.17 | |
| DRO >C10-C28 | <10.0 | 10.0 | 12/04/2012 | ND | 212 | 106 | 200 | 6.38 | |
| Surrogate: 1-Chlorooctane | 84.6 | % 65.2-14 | 0 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 93.1 | % 63.6-15- | 4 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Lability and Damages. Cardnal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount pad 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 subcidaries, 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 of whether such

Celey & Keine



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

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 whistoever 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 successions arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims 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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| Company Name: 165 | BILL TO | ANALYSIS REQUEST | | | | | | | | | | | |
|--|--|--|--|---|--|-----|---|----------------------|------|------|------------------------|--|---|
| Project Manager: Biore But | f-9 | P.O. #: | | | | | | | | | | | |
| Address: | | Company: | | | | | | | | | | | |
| City: | State: Zip: | Attn: | | | | | | | | | | | |
| Phone #: | Fax #: | Address: | | | | | | | | | | | |
| Project #: | Project Owner: | City: | | | | | | | | | | | |
| Project Name: すい KerL サ | 95 | | State: Zip: | | | | | | | | | | |
| Project Location: | | Phone #: | | | | | | | | | | | |
| Sâmpler Name: Dek Herri | 3 HOWE HAVE | 4472 | Fax #: | • | | | | | | | | | |
| FOR LAB USE ONLY | | MATRIX | PRESERV SAMPL | ING | | | | | | | | | ļ |
| Lab I.D. Sampl | e I.D. | GROUNDWATER GROUNDWATER WASTEWATER \$\zerig{\sqrt{SOIL}} | ACIDIGER: ACIDICER: ACIDIGER: TIME 9.389. | - 10 × | | _ | | | | | | |
| | | | | | | | | - | | | | | |
| PLEASE NOTE: Liability and Damages. Cordina's hisbliry makes. All claims including those for negligence and any service. In no event shall Cardinal be liable for incidental restriction or successors arising out of or related to the performance of the performan | other cause whatsoever shall be deemed consequental damages, including without mone of services hereunder by Cardinal, Date Re | l waived unless made in writing : t limitation, business interruption | and received by Cardinal within 30 days at the last of use, or loss of profits incurred by m is based upon any of the above stated a | ter completion of the client, its subsidial easons or otherwise Phone Research Fax Result REMARKS | ne applicable ries, se. sult: [| Yes | □ No □ No ▷************************************ | Add'l Ph Add'l Fa | x #: | | - | | |
| Delivered By: (Circle One) Sampler - UPS - Bus - Other: | (Initials). | | | | | | | | | ~~~~ | | | |
| † Cardinal cannot accept ver | bal changes. Please fax | written changes to | | | | | | | , | | al are the long should | | F |



RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

<u>District I</u> 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

RECEIVED

Form C-141 evised October 10, 2003

FEB 21 2013

Submit 2 Copies to appropriate
District Office in accordance
NMOCD ARTES! Awith Rule 116 on back
side of form

Release Notification and Corrective Action

| · | | | | | | OPERA' | | | ☐ Initial Report ☐ Final Report | | | | | |
|---|---|----------------------------------|-------------|--------------------|-------------------|--|-------------------------|-------------|--------------------------------------|--|-----------|-------------|--|--|
| Name of Co | | Linn Ene | | | Contact Gary Wink | | | | | | | | | |
| Address 2310 W. Bender, Hobbs, NM 88240 | | | | | | Telephone No. 575-738-1739 ext. 1218 | | | | | | | | |
| Facility Name J.L. Keel B #25 | | | | | | Facility Type Injection Well | | | | | | | | |
| Surface Owner BLM Mineral Owner | | | | | | Unknow | 1 | | Lease No. 30-015-05088 | | | | | |
| | | | | LOCA | ATIO | N OF RE | LEASE | _ | | | _ | | | |
| Unit Letter | Letter Section Township Range Feet from the | | | North | /South Line | Feet from the | East/West Line | | County | County | | | | |
| L | 6 | 178 | 31E | | | | | | | Eddy | | | | |
| | | | Lati | itude | | _ Longitue | de | | | | | | | |
| | | | • | NAT | TURE | OF REL | EASE | | | | | | | |
| Type of Rele | ase Prod | uced Water | | | • | | Release Unkno | wn | Volume Recovered Unknown | | | | | |
| Source of Re | | ection line | | | | Date and I Unknown | Hour of Occurrence | e | Date and Hour of Discovery 6/24/2011 | | | | | |
| Was Immedi | ate Notice C | | Vac N | No Cl Not D | 0011:20 | If YES, To | Whom? | | | | | | | |
| By Whom? | <u></u> | | 1 cs 🔼 | No Not R | equired. | | lour | | | ······································ | | | | |
| Was a Water | course Reac | :hed? | | | | Date and Hour If YES, Volume Impacting the Watercourse. | | | | | | | | |
| , , as a 1, assi | 000150 11000 | | Yes 🗵 |] No | | 11 120, | p | | | | | | | |
| If a Watercon | ırse was Im | pacted, Descr | ibe Fully. | * | | [| · | | | | <u> </u> | | | |
| | | | | | | - | | | | | | | | |
| Describe Car | ise of Proble | em and Reme | dial Actio | n Taken.* | | | , | | | | | | | |
| Injection line | e ruptured ar | nd released flu | iids onto p | pasture land. | | | | | | | | | | |
| | | and Cleanup A | | | | | | | | - | | | | |
| | | | | | | | pelow ground surf | | | | | | | |
| | | | | | | | ratory confirmation | | | | | | | |
| with BLM se | | | ive terram | , and the site was | Contou | red to the sun | ounding landscap | C WILL C | 1031011 COII | 11013. 1110 31 | to will i | oc seeded | | |
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| | | | | | | | nd perform corre | | | | | | | |
| public health | or the envi | ronment. The | acceptant | ce of a C-141 rep | ort by t | he NMOCD n | narked as "Final P | Report" (| does not rel | lieve the ope | rator of | liability . | | |
| should their | operations h | ave failed to | adequately | investigate and | remedia | ite contaminat | ion that pose a thi | eat to g | round wate | r, surface w | ater, hu | man health | | |
| | | ws and/or regi | | otance of a C-141 | report | does not relie | ve the operator of | respons | ibility for c | compliance v | with any | y otner | | |
| | , | OIL CONSERVATION DIVISION | | | | | | | | | | | | |
| Signature: Hauf W. Wink | | | | | | | | | | | | | | |
| Signaturo. | · way | Approved by District Supervisor: | | | | | | | | | | | | |
| Printed Nam | e: Gary | Wink | | | | | | | | | | | | |
| Title: I | tle: Production Foreman | | | | | Approval Date: Expir | | | Expiration | ation Date: | | | | |
| E-mail Addre | E-mail Address: gawink@linnegergy.com | | | | | | Conditions of Approval: | | | Au1-1 □ | | | | |
| 2/0/0 | 10/100 | • | | Attached | | | | | | | | | | |
| Date: Attach Addi | tional Shee | Prets If Necess | | 5) 738-1739 ext. | 1218 | | | | | | _ | | | |