1R-500

REPORTS

DATE

3-6-12

RECEIVED OCD

627 Forest View Way Monument, Colorado 80132 Tel: 719-339-6791 Email: lpg@texerracom

March 6th, 2012

Mr. Edward Hansen

Oil Conservation Division, Environmental Bureau 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

Re: Rice Operating Company

Corrective Action Plan Progress Report BD N-18 Below Grade Tanks NMOCD Case No. 1R-500 UL-N, Sec 18, T22S, R37E

Sent via E-mail and U.S. Certified Mail w/ Return Receipt No. 7011 0110 0001 5863 4844

Mr. Hansen,

This letter summarizes progress made in implementing the OCD approved Corrective Action Plan (CAP) of July 1st, 2011 and CAP Addendum of January 23rd, 2012 for Rice Operating Company's BD N-18 Below Grade Tank (BGT) project (Figures 1&2).

ROC is the service provider (agent) for the BD SWD System and has no ownership of any portion of the pipeline, well, or facility. The System is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage ownership/usage basis.

The key elements of this CAP are summarized, below:

CAP Corrective Actions Planned

Vadose (unsaturated) Zone Remedy

The removal of chloride impacted soils and the installation of a synthetic double-liner system across the former tank area to preclude any possibility of potential future groundwater impacts (Figure 3). The bottom liner would be installed at an approximate depth of 30 ft bgs and encompass an area of approximately 98 ft by 98 ft. Excavated soil material having a chloride concentration less than 2,000 mg/kg chloride and 100 PID will be placed on top of the lower liner. The upper liner would be installed approximately 4 to 5 bgs and encompass an area of approximately 108 ft x 108 ft. Soil material having a chloride concentration of less than 500 mg/kg and 100 PID will be placed on top of the upper liner and contoured to ground surface. Excavated soil will be evaluated for use as backfill, and any soil requiring disposal will be properly disposed of at a NMOCD approved facility. Ground surface above the liner will be covered with caliche.

Saturated Zone (groundwater) Remedy

The removal of the estimated mass of chlorides (1,927 kg) from the near-source well (MW-1), or approximately 4,400 bbls of groundwater. NMOCD approved the chloride mass with the condition that the amount of groundwater to be recovered be recalculated on a bi-weekly basis based on the chloride concentration in the recovered groundwater. Also, a sufficient amount of groundwater must be recovered to remove the calculated chloride mass or to create a significant reduction in chloride concentration in the groundwater, whichever occurs later. (However, if the chloride concentration in the groundwater at the site is reduced to the background concentration, then no further groundwater recovery will be required.)

Corrective Action Progress

ROC removed the two below-grade tanks in 2010 and began excavating beneath them to install the double-liner system in November 2011. Although the initial design was to install the 98 ft by 98 ft lower synthetic liner at 30 ft bgs, rock was encountered at 27 ft bgs. An eight-point composite soil sample from that depth tested 1,060 mg/kg for chlorides (Appendix A-1) and 45.9 ppm for PID hydrocarbons (Appendix A-2). ROC subsequently submitted a CAP Addendum to install the liner at 27 ft bgs and this was approved by OCD on January 23rd, 2012.

The bottom of the excavation was padded with 6 inches of blow sand, and the 98 ft by 98 ft, 20 mil reinforced synthetic liner was properly seated. A 6 inch blow sand pad was then placed above the liner. The excavation was backfilled in 3 ft lifts with the previously excavated soil from Stockpile B, which had a laboratory chloride result of 608 mg/kg and a PID of 6.3 ppm, and from the 8 Pt Comp Spoil Pile, which had a laboratory chloride result of 464 mg/kg and a PID of 2.4 ppm (Appendix A-3, A-4). Once the excavation was backfilled up to 5 ft bgs, 6 inches of blow sand were used to pad the excavation. The second, near-surface 108 ft by 108 ft, 20 mil reinforced synthetic liner was installed and properly seated at 4.5 ft bgs with a 6-inch pad of clean blow sand carefully placed above it. The remaining excavation was backfilled with previously excavated soil from Stockpile A, which had a laboratory chloride reading of 304 mg/kg and a PID of 0.6 ppm, and from 8 Pt Comp Stockpile C, which had a laboratory chloride result of 352 mg/kg and a PID of 2.7 ppm, to within approximately 2 ft of the surface (Appendix A-3, A-4). The remaining volume was backfilled with clean, imported caliche, which tested 96 mg/kg and 144 mg/kg for chlorides (Appendix A-5) and 0.6 ppm and 1.6 ppm for PID hydrocarbons (Appendix A-6).

Over the course of this work, which was completed on February 15th, 2012, a total of 806 cu yards of chloride-impacted soil material was removed and taken to Sundance Services for proper disposal. A total of approximately 1,456 cu yards of clean caliche were brought to the site to complete backfill and prepare a pad so that the site could be returned to normal use. A photographic chronology of the course of this work is given in Figures 4a-4c. Laboratory reports for soil chloride analyses and field PID reports are given in the Appendix.

BD N-18 BGT

Conclusion

ROC has completed the vadose (unsaturated) zone remedy specified in the OCD-approved Corrective Action Plan for this location. We therefore request that OCD grant remedial closure status for the vadose zone for this project.

ROC is presently planning work to address the saturated (groundwater) zone remedy specified in the Corrective Action Plan. We will report progress and results of these efforts to OCD upon their completion.

We appreciate your review of this report and your consideration of our request for remedial closure for the unsaturated zone. Please contact either myself or Rice Operating Company if you have any questions or need additional information.

Sincerely,

L. Peter Galusky, Jr. Ph.D.

Principal

Copy: Rice Operating Company

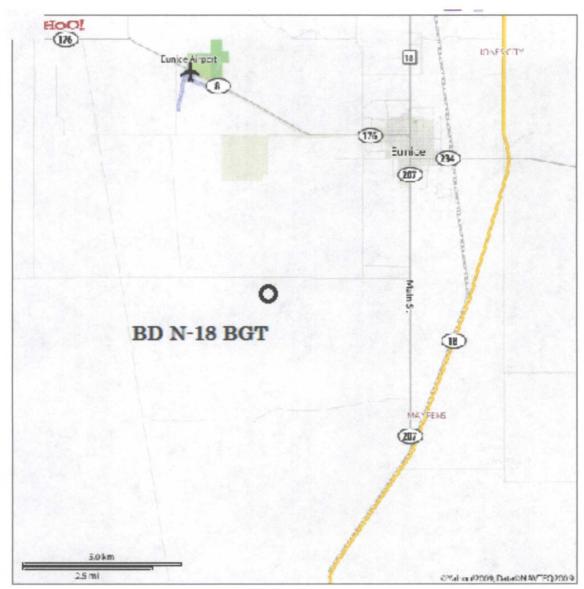


Figure 1 – BD N-18 BGT site location.

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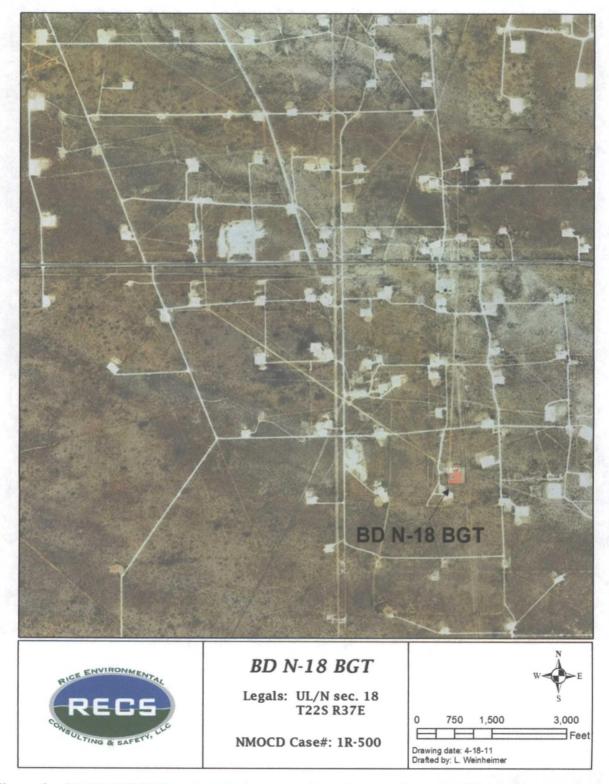


Figure 2 – BD N-18 BGT location relative to nearby and up-gradient oil-field operations.

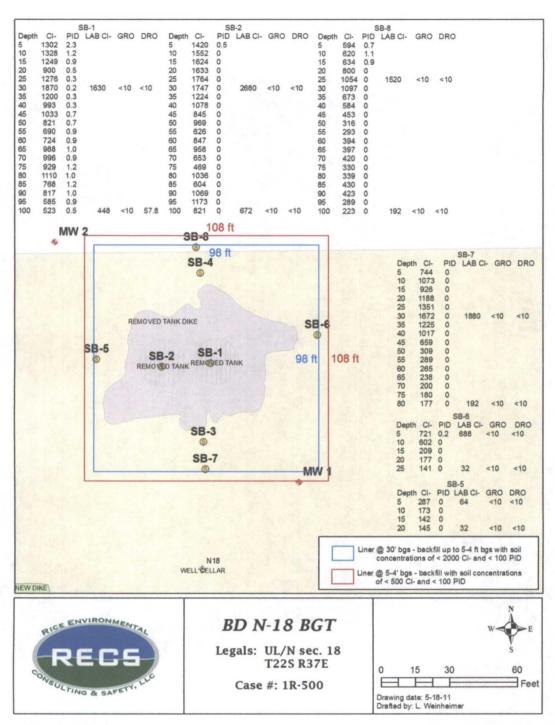


Figure 3 – BD N-18 BGT approved liners in relation to monitor wells and soil borings. Note that the deeper liner was installed at 27 ft bgs (rather than at 30 ft bgs as indicated here) due to the presence of impenetrable rock. This modification was approved by NMOCD on January 23rd, 2012.

BD N-18 BGT (1R-500) Unit N, Section 18, T-22-S, R-37-E exporting excavated soil, excavating the site, facing south facing east 11/30/2011 12/21/2011 excavation complete to 27' bgs with a 6" blow excavating the 98'x98' area to 30' bgs, sand pad installed, facing southeast 1/23/2012 facing northwest 1/20/2012 installing a 6" blow sand pad above liner, 98'x98' 20 mil reinforced liner installed at 26.5', facing northeast 1/24/2012 1/24/2012 facing northeast

Figure 4a - Photographic record of soil excavation and installation of double synthetic liner system.

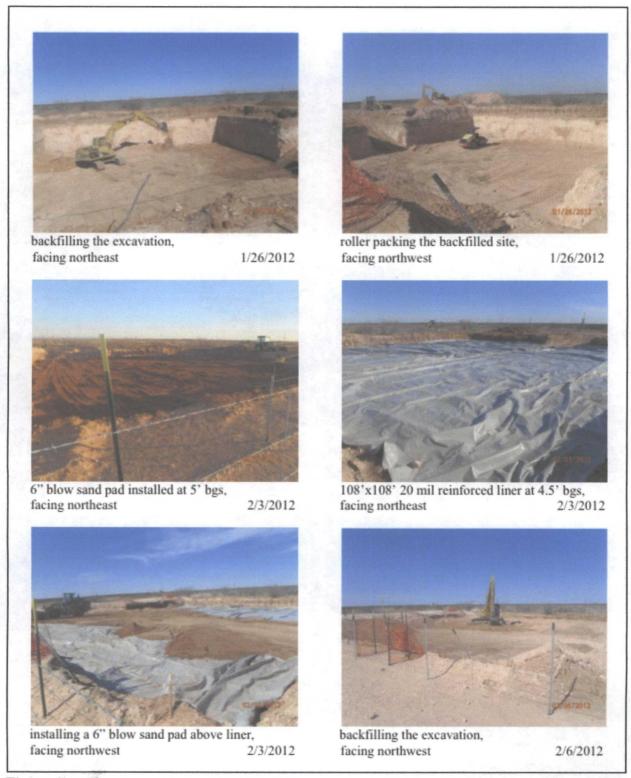


Figure 4b - Photographic record of soil excavation and installation of double synthetic liner system.

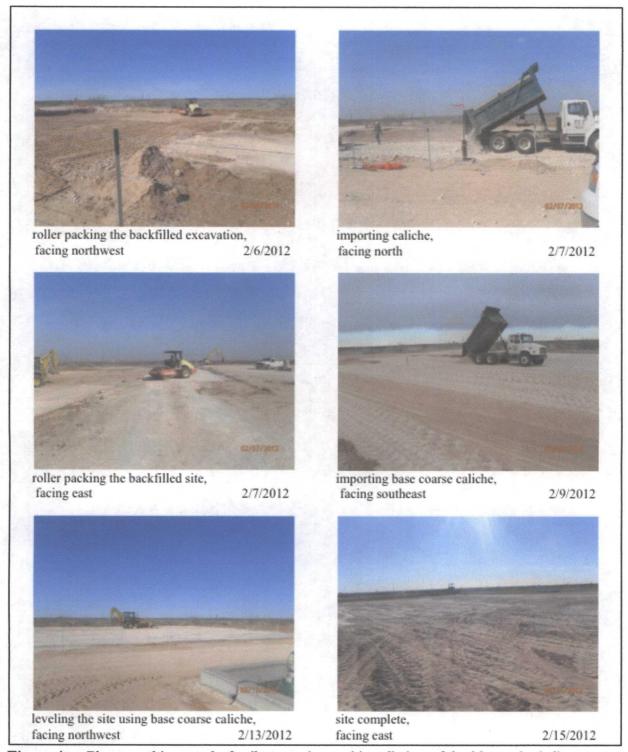


Figure 4c - Photographic record of soil excavation and installation of double synthetic liner system.

APPENDIX - Soil Chloride and Hydrocarbon Analytical Data



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

January 24, 2012

ZACH CONDER

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD N-18 BGT

Enclosed are the results of analyses for samples received by the laboratory on 01/23/12 17:05.

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.tceg.texas.gov/field/qa/lab_accred_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. Keine

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.

Sincerety,

Celey D. Keene

Lab Director/Quality Manager

Page 1 of 4

Appendix A-1 – Soil chloride concentration from a composite sample at 27 ft bgs.



Analytical Results For:

Rice Operating Company ZACH CONDER 112 W. Taylor Hobbs NM, 88240 (575) 397-1471

Fax To:

Received: Reported:

Project Name:

Project Number:

Project Location:

01/23/2012 01/24/2012

BD N-18 BGT NOT GIVEN NOT GIVEN

Sampling Date:

Sampling Type: Sampling Condition:

Sample Received By:

01/23/2012

Cool & Intact Jodi Henson

Sample ID: 8 PT COMP @ 27' (H200166-01)

Chloride, SM4500CI-B

Chloride

1060

Reporting Limit

16.0

01/24/2012

ND

432 108 400

RPD

Qualifier

3.77

Cardinal Laboratories

*=Accredited Analyte

Celecy D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 4

Appendix A-1 – Soil chloride concentration from a composite sample at 27 ft bgs.



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 & Keine

Celey D. Keene, Lab Director/Quality Manager

~ Page 3 of 4

Appendix A-1 – Soil chloride concentration from a composite sample at 27 ft bgs.

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Address: 122 W Taylor State: NM Zip: 39740	Attn:		
Phone 9: 393 - 9/74 Fax 9:	Address:		
Project 9: Project Owner: Project Name:	City: State: Zip:		
Project Location: BD N-18 BGT Sampler Name: Robort	Phone #:		
Sampler Name: //C/OVE//	Fox #: PRESERY SAMPLING		
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Sampler - UPS - Bus - Other: Cycl - Infact - Yes - Yes - Yes - Yes - No - No	i UNI		
† Cardinal connet accept verbal changes. Please fax written changes to	105-303-2476 # 26	Page 4 of 4	4

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Appendix A-2 – Soil PID hydrocarbon concentration from a composite sample at 27 ft bgs.



January 14, 2012

Hack Conder

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD N-18 BGT

Enclosed are the results of analyses for samples received by the laboratory on 01/12/12 16:37.

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.

Hope S. Moreno

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.

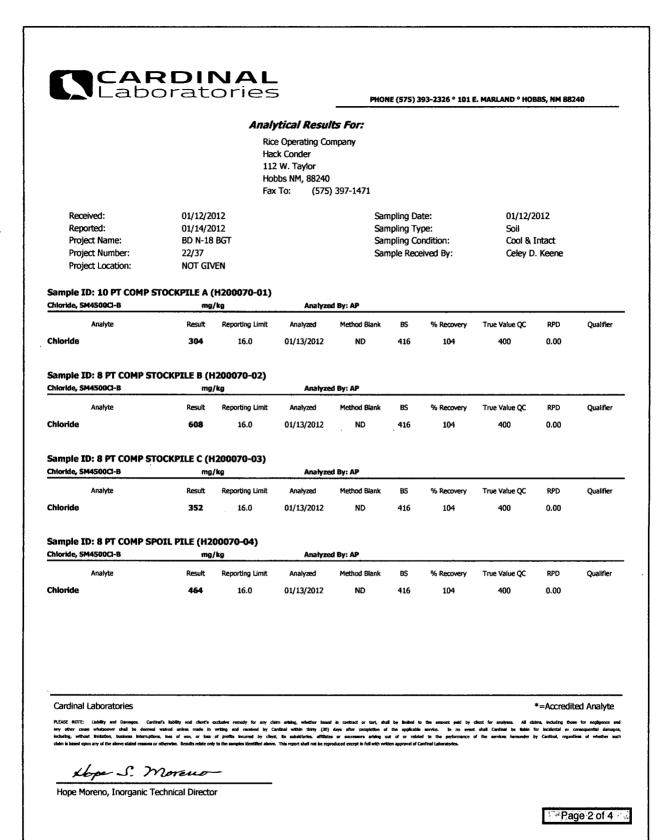
Sincerely,

Hope Moreno

Inorganic Technical Director

Page 1 of 4

Appendix A-3 – Soil chloride concentrations from excavated soil material.



Appendix A-3 – Soil chloride concentrations from excavated soil material.



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 SM4500CI-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

PLENSE MOTIC: Usballity and Damages. Cardinal's Bability and clear's exclusive remoty for any cleim artising, whether based is contract or tort, shall be limited to the amount pold by client for analyses. All claims, including those for negligence and any other cause whatevers shall be deemed waved usies made in writing and received by Cardinal within thirty (3)) days after completion of the applicable service. In me event shall Cardinal be Bable, for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits hearted by Cleer, its substitutes, affiliates or out of or related to the performance of the services hereuseder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results sales only to the samples identified above. This report shall not be reprotedual once for real with within approval of Cardinal Laboratories.

Abpa S. Moreno

Hope Moreno, Inorganic Technical Director

Page 3 of 4

Appendix A-3 – Soil chloride concentrations from excavated soil material.

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (576) 393-2326 FAX (575) 393-2476 BILL TO ANALYSIS REQUEST Project Manager: Hack Conder P.O. #: Address: 122 W Taylor Сотрапу: Stato: NA1 Zip: 98240 Attn: Phone #: 575-393-9174 Address: Project #: Project Owner: + City: Project Name: State: Zip: Project Location: BD N-18 BGT (22/37)
Sampler Name: ROBERT Equis Phone #: Fax #: FOR LABUSE ONLY Lab I.D. Sample I.D. 11-200070 DATE 10 pt. Composite Stock Ale H Spt. Composite Stock Pile B Spt Composite Stock Pile C 1-12-12 9:40 1-12-12 9:500 1-12-12 10:00 day U3. OV SpT. Composite Spoil Pile 1-12-12 12:30 FLAGE following and usualizes, continue reasons or content of the description of the desc Phone Result: D Yes D No Add Phone #: Fax Result: D Yes D No Add Fax #: Rolinguishod By Delivered By: (Circle One) Sampler - UPS - Bus - Other:

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Appendix A-4 – Soil PID hydrocarbon concentrations from excavated soil material.

RICE ENVIRONMENTAL CONSULTING & SAFETY 122 West Taylor Hobbs, NM 88240 PHONE: (505) 393-9174 FAX: (505) 397-1471 PID METER CALIBRATION & FIELD REPORT FORM CK. MODEL: PGM 7300 SERIAL NO: 590-001413 MODEL MODEL: PGM 7300 SERIAL NO: 590-000504 SERIAL NO: 592-903318 NO. MODEL: PGM 7320 MODEL: PGM 7300 SERIAL NO: 590-000183 GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE LOT NO :HAL-248-100-1 EXPIRATION DATE:7-1-2015 METER READING ACCURACY:100 ACCURACY: +/- 2% **COMPANY** RICE OPERATING **SYSTEM JUNCTION SECTION TOWN SHIP RANGE** UNIT BD N-18-BGT N 18 **22**S 37E SAMPLE ID SAMPLE ID PID

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DATE: 1-12-2012

Appendix A-4 - Soil PID hydrocarbon concentrations from excavated soil material.



February 15, 2012

Hack Conder

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD N-18 BGT

Enclosed are the results of analyses for samples received by the laboratory on 02/10/12 16:30.

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/ga/lab-accred-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. Keine

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

Page 1 of 4

Appendix A-5 – Soil chloride concentrations from imported caliche.



Analytical Results For:

Rice Operating Company Hack Conder 112 W. Taylor Hobbs NM, 88240 (575) 397-1471

Received: Reported:

Project Name:

Project Number:

Project Location:

Analyte

02/10/2012 02/15/2012

BD N-18 BGT NONE GIVEN NOT GIVEN

Sampling Date:

432

Sampling Type: Sampling Condition: Sample Received By: 02/10/2012 Soil

Cool & Intact Jodi Henson

Sample ID: IMPORTED CALICHE W (H200351-01)

Chloride, SM4500CI-B

Chloride

mg/kg

96.0

Reporting Limit Analyzed 02/13/2012 16.0

ND

108

True Value QC 400

RPD Qualifier 7.69

Sample ID: IMPORTED CALICHE (H200351-02)

Chloride, SM4500CI-B mg/kg Analyzed By: AP Analyte Reporting Limit True Value QC 02/13/2012 Chloride 144 16.0 ND 432 108 400 7.69

Cardinal Laboratories

*=Accredited Analyte

Celey & Kuna

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 4

Appendix A-5 – Soil chloride concentrations from imported caliche.



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 WITH: Unlikely and Damages. Confining building and client's exclusive crossing for any claim nating, whether based is contract or text, dust be instant in the annexet paid by client for analyses. All claims, including bose for negligence are negligence or negligence or the explosive process, in so event affect affect containing and the fore incidential containing be label for incidential or consequential debts for incidential containing belief or incidential containing and the professional containi

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4

Appendix A-5 – Soil chloride concentrations from imported caliche.

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Project Name:		State: Zip:	_						
Project Location: BD N-18, Sampler Name: Robert S	/3 <i>G-T</i>	Pliono V:					1 1		1
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Appendix A-6 – Soil PID hydrocarbon concentrations from imported caliche.

BD N-18 BGT (1R-500) Unit Letter N, Section 18, T22S, R37E



Site photo of old facility

5/26/2009



Site photo of new facility

10/17/2011