

June 11th, 2014

Mike Bratcher

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

**RE: Corrective Action Plan
Burnett Oil Co. Powers 31 Federal #3
UL/H sec. 31 T17S R31E
API No. 30-015-31806**

Mr. Bratcher:

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

Background and Previous Work

The site is located approximately 5 miles southeast of Loco Hills, New Mexico at UL/H sec. 31 T17S R31E. This site is in an area of no known groundwater.

On May 24th, 2014, lightning struck a produced water tank at the SWD and both tanks at the site burned down. The supply line to the site was shut off and fire trucks arrived at the scene to extinguish the fire. A total of 1,460 barrels of produced water and oil were released. Vacuum trucks were called to the site and recovered a total of 1,126 barrels of fluid. The release affected 27,196 square feet of bermed battery, lease pad, caliche road and pasture land. NMOCD and BLM were notified of the release on May 28th, 2014, and an initial C-141 was sent to both agencies on June 4th, 2014 for approval (Appendix A).

RECS personnel were on site beginning on May 28th, 2014 to assess the release. A total of 8 points within the release area were sampled at the surface and with depth (Figure 1). Samples were field tested for chlorides and organic vapors, and the samples were taken to a commercial laboratory for analysis (Appendix B). Laboratory chloride readings for all points at all depths returned values at or near non-detect, except for Point 3. Although, the surface sample at Point 3 returned a laboratory chloride reading of 4,000 mg/kg, the 6 inch and 1 foot sample returned chloride values below 250 mg/kg. Gasoline Range Organics (GRO) readings returned values of non-detect at the surface and at depth in Point 1, Point 2, Point 3 and Point 8. At all other points, the GRO readings returned values of non-detect at depth. Diesel Range Organics (DRO) readings at the surface of each point returned values above 1,000 mg/kg, except at Point 7, where the DRO reading was 658 mg/kg. At all sampling points, the DRO readings dropped to below 1,000 mg/kg at depth. BTEX readings were low at all sampling points and achieved readings of non-detect at depth.

Photo documentation of these activities can be found in Appendix C.

Corrective Action Plan

In order to allow site remediation, the battery activities were moved to a temporary location on the lease pad.

The bermed battery location was lined throughout. This area will be scraped to remove the contaminated gravel and the two liners that encompassed the tank battery. The gravel will be taken to a NMOCD approved facility for disposal. The battery area will be re-lined with a 40-mil liner, the gravel will be replaced with clean, imported gravel and new tanks will be installed to re-commence disposal activities. Berms will be installed around the battery to provide a containment area for the site.

Based on laboratory analyses, all areas, except the areas around Point 6 and Point 7 will be scraped down 6 inches. The area around Point 6 will be excavated to 2 ft bgs. Once the excavation is completed, final wall and bottom samples from the excavation will be taken and sent to a commercial laboratory to confirm that constituents are below regulatory standards. The area around Point 7 shows constituents below regulatory standards at all depths. Therefore, this area will be lightly scraped to remove visible staining.

The excavated soil will be disposed at a NMOCD approved facility. Clean caliche and top soil will be imported to the site to serve as backfill. Samples of the caliche and top soil will be taken to a commercial laboratory to confirm that chloride values are below regulatory standards. The lease pad and lease road will be backfilled with the caliche, and the pasture areas will be backfilled with the top soil. The areas in the pasture will then be seeded with a blend of native vegetation.

Once these activities have been completed, a request for 'remediation termination' and site closure will be sent to NMOCD and BLM for their approval.

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

Sincerely,

A handwritten signature in dark ink, appearing to read 'J.C.W.' followed by a stylized flourish.

Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

Attachments:

Figure 1 – Initial Sampling Data

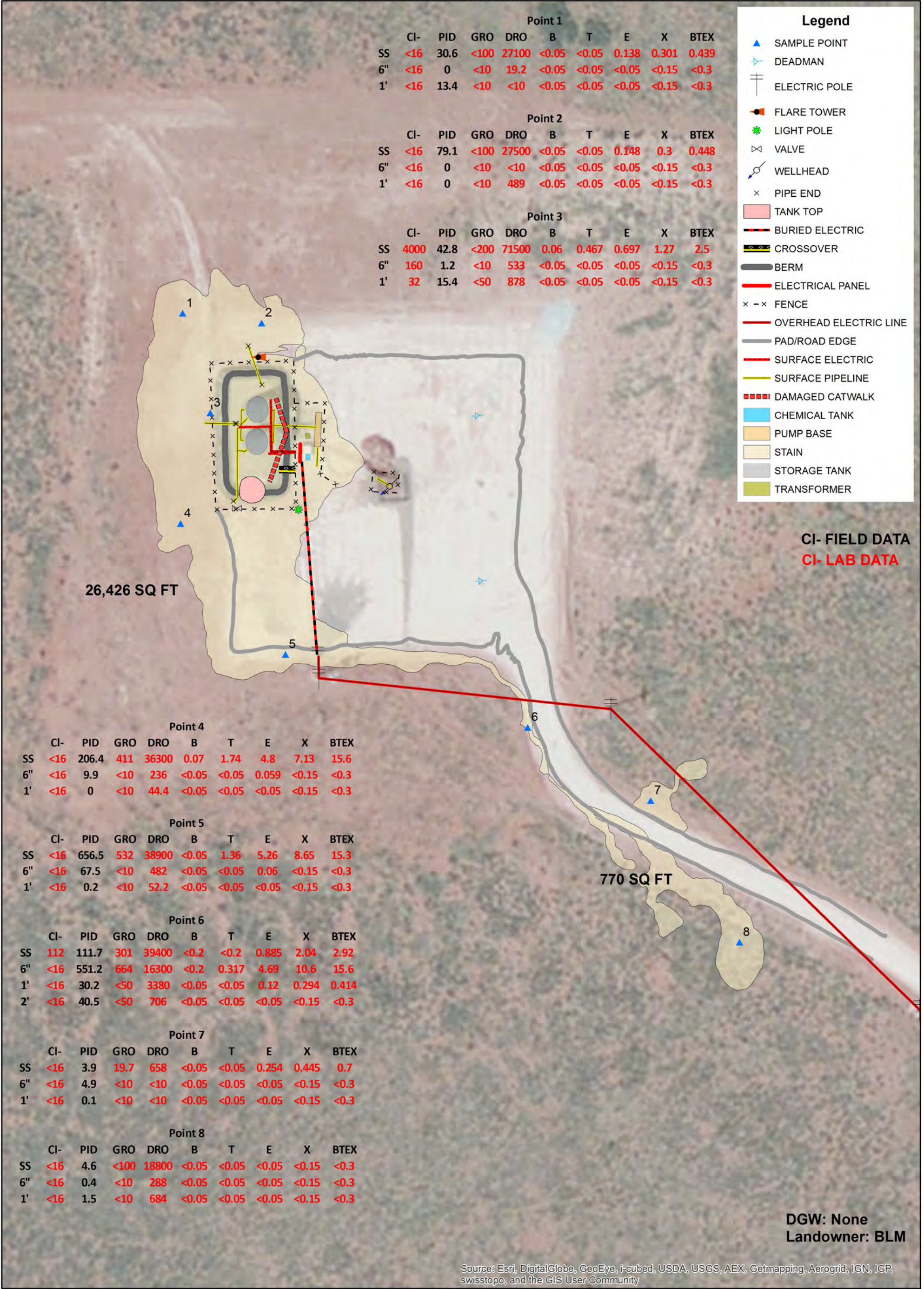
Appendix A – Initial C-141

Appendix B – Initial Sampling Labs

Appendix C – Photo Documentation

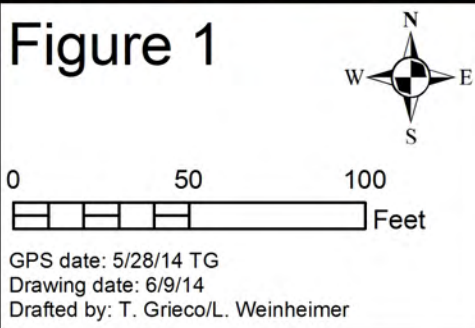
Figures

Initial Sampling Data



**BURNETT
POWERS 31
FEDERAL #3**
UL H SECTION 31
T-17-S R-31-E
EDDY COUNTY, NM

Figure 1



Appendix A

Initial C-141

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Burnett Oil Co.	Contact Shawna Matthews	
Address 87 Square Lake Rd, Loco Hills, NM 88255	Telephone No. (575) 219-6370	
Facility Name Powers 31 Federal #3	Facility Type SWD	
Surface Owner BLM	Mineral Owner	API No. 30-015-31806


LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	31	17S	31E	1980	FNL	660	FEL	Eddy

Latitude 32.792864 Longitude -103.902551

NATURE OF RELEASE

Type of Release Produced water and oil	Volume of Release 1,400 bbls produced water/60 bbls oil	Volume Recovered 1,126 bbs of fluid
Source of Release SWD tanks	Date and Hour of Occurrence 5/24/14 3:00 am	Date and Hour of Discovery 5/24/14 3:00 am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jim Amos - BLM and NMOCD (voicemail)	
By Whom? Jake Kamplain - RECS	Date and Hour 5/28/14 3:27 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* Lightning struck a produced water tank at the SWD and burnt down both tanks at the site causing a release of 1,460 barrels of produced water and oil. The supply line was shut off at 3:30 am. Fire trucks arrived on the scene and extinguished the fire. Vacuum trucks were called to the site and recovered 1,226 bbls of fluid.		
Describe Area Affected and Cleanup Action Taken.* A total of 27,196 square feet of bermed battery, lease pad, caliche road and pasture land were affected by the release. The release will be remediated to NMOCD and BLM standards.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		

Signature 	OIL CONSERVATION DIVISION	
Printed Name: Shawna Matthews	Approved by Environmental Specialist:	
Title: Senior Production Technician	Approval Date:	Expiration Date:
E-mail Address: smatthews@burnettoil.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date:	Phone: (575) 219-6370	

* Attach Additional Sheets If Necessary

Appendix B

Initial Sampling Labs

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



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

June 06, 2014

HACK CONDER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: POWERS 31 FEDERAL #3

Enclosed are the results of analyses for samples received by the laboratory on 05/30/14 12:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder

Organic Supervisor

Analytical Results For:

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

Received:	05/30/2014	Sampling Date:	05/29/2014
Reported:	06/06/2014	Sampling Type:	Soil
Project Name:	POWERS 31 FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BURNETT OIL		

Sample ID: PT. 1 @ SURFACE (H401666-01)

BTX 8021B		mg/L		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2014	ND	1.83	91.6	2.00	3.81	
Toluene*	<0.050	0.050	06/05/2014	ND	1.96	97.9	2.00	3.79	
Ethylbenzene*	0.138	0.050	06/05/2014	ND	1.76	88.2	2.00	3.63	
Total Xylenes*	0.301	0.150	06/05/2014	ND	5.51	91.8	6.00	3.55	
Total BTX	0.439	0.300	06/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 89.5-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	06/04/2014	ND	174	87.2	200	3.21		
DRO >C10-C28	27100	100	06/04/2014	ND	178	89.0	200	7.42		

Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 741 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	05/30/2014	Sampling Date:	05/29/2014
Reported:	06/06/2014	Sampling Type:	Soil
Project Name:	POWERS 31 FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BURNETT OIL		

Sample ID: PT. 1 @ 6" (H401666-02)

BTX 8021B		mg/L		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2014	ND	1.83	91.6	2.00	3.81	
Toluene*	<0.050	0.050	06/05/2014	ND	1.96	97.9	2.00	3.79	
Ethylbenzene*	<0.050	0.050	06/05/2014	ND	1.76	88.2	2.00	3.63	
Total Xylenes*	<0.150	0.150	06/05/2014	ND	5.51	91.8	6.00	3.55	
Total BTX	<0.300	0.300	06/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 89.5-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/05/2014	ND	174	87.2	200	3.21	
DRO >C10-C28	19.2	10.0	06/05/2014	ND	178	89.0	200	7.42	

Surrogate: 1-Chlorooctane 96.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.3 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	05/30/2014	Sampling Date:	05/29/2014
Reported:	06/06/2014	Sampling Type:	Soil
Project Name:	POWERS 31 FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BURNETT OIL		

Sample ID: PT. 1 @ 1' (H401666-03)

BTX 8021B		mg/L		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2014	ND	1.83	91.6	2.00	3.81	
Toluene*	<0.050	0.050	06/05/2014	ND	1.96	97.9	2.00	3.79	
Ethylbenzene*	<0.050	0.050	06/05/2014	ND	1.76	88.2	2.00	3.63	
Total Xylenes*	<0.150	0.150	06/05/2014	ND	5.51	91.8	6.00	3.55	
Total BTEX	<0.300	0.300	06/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 89.5-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/05/2014	ND	174	87.2	200	3.21	
DRO >C10-C28	<10.0	10.0	06/05/2014	ND	178	89.0	200	7.42	

Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	05/30/2014	Sampling Date:	05/29/2014
Reported:	06/06/2014	Sampling Type:	Soil
Project Name:	POWERS 31 FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BURNETT OIL		

Sample ID: PT. 2 @ SURFACE (H401666-04)

BTX 8021B		mg/L	Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2014	ND	1.83	91.6	2.00	3.81	
Toluene*	<0.050	0.050	06/05/2014	ND	1.96	97.9	2.00	3.79	
Ethylbenzene*	0.148	0.050	06/05/2014	ND	1.76	88.2	2.00	3.63	
Total Xylenes*	0.300	0.150	06/05/2014	ND	5.51	91.8	6.00	3.55	
Total BTX	0.448	0.300	06/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 89.5-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	06/05/2014	ND	174	87.2	200	3.21	
DRO >C10-C28	27500	100	06/05/2014	ND	178	89.0	200	7.42	

Surrogate: 1-Chlorooctane 124 % 65.2-140

Surrogate: 1-Chlorooctadecane 745 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	05/30/2014	Sampling Date:	05/29/2014
Reported:	06/06/2014	Sampling Type:	Soil
Project Name:	POWERS 31 FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BURNETT OIL		

Sample ID: PT. 2 @ 6" (H401666-05)

BTX 8021B		mg/L		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2014	ND	1.83	91.6	2.00	3.81	
Toluene*	<0.050	0.050	06/05/2014	ND	1.96	97.9	2.00	3.79	
Ethylbenzene*	<0.050	0.050	06/05/2014	ND	1.76	88.2	2.00	3.63	
Total Xylenes*	<0.150	0.150	06/05/2014	ND	5.51	91.8	6.00	3.55	
Total BTX	<0.300	0.300	06/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 89.5-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/05/2014	ND	174	87.2	200	3.21	
DRO >C10-C28	<10.0	10.0	06/05/2014	ND	178	89.0	200	7.42	

Surrogate: 1-Chlorooctane 111 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	05/30/2014	Sampling Date:	05/29/2014
Reported:	06/06/2014	Sampling Type:	Soil
Project Name:	POWERS 31 FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BURNETT OIL		

Sample ID: PT. 2 @ 1' (H401666-06)

BTX 8021B		mg/L		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2014	ND	1.83	91.6	2.00	3.81	
Toluene*	<0.050	0.050	06/05/2014	ND	1.96	97.9	2.00	3.79	
Ethylbenzene*	<0.050	0.050	06/05/2014	ND	1.76	88.2	2.00	3.63	
Total Xylenes*	<0.150	0.150	06/05/2014	ND	5.51	91.8	6.00	3.55	
Total BTX	<0.300	0.300	06/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 89.5-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/05/2014	ND	174	87.2	200	3.21	
DRO >C10-C28	489	10.0	06/05/2014	ND	178	89.0	200	7.42	

Surrogate: 1-Chlorooctane 121 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	05/30/2014	Sampling Date:	05/29/2014
Reported:	06/06/2014	Sampling Type:	Soil
Project Name:	POWERS 31 FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BURNETT OIL		

Sample ID: PT. 3 @ SURFACE (H401666-07)

BTX 8021B		mg/L		Analyzed By: MS/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.060	0.050	06/05/2014	ND	1.83	91.6	2.00	3.81	
Toluene*	0.467	0.050	06/05/2014	ND	1.96	97.9	2.00	3.79	
Ethylbenzene*	0.697	0.050	06/05/2014	ND	1.76	88.2	2.00	3.63	
Total Xylenes*	1.27	0.150	06/05/2014	ND	5.51	91.8	6.00	3.55	
Total BTX	2.50	0.300	06/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 89.5-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	06/05/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	06/05/2014	ND	174	87.2	200	3.21	
DRO >C10-C28	71500	200	06/05/2014	ND	178	89.0	200	7.42	

Surrogate: 1-Chlorooctane 135 % 65.2-140

Surrogate: 1-Chlorooctadecane 2080 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	05/30/2014	Sampling Date:	05/29/2014
Reported:	06/06/2014	Sampling Type:	Soil
Project Name:	POWERS 31 FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BURNETT OIL		

Sample ID: PT. 3 @ 6" (H401666-08)

BTX 8021B		mg/L		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2014	ND	1.83	91.6	2.00	3.81	
Toluene*	<0.050	0.050	06/05/2014	ND	1.96	97.9	2.00	3.79	
Ethylbenzene*	<0.050	0.050	06/05/2014	ND	1.76	88.2	2.00	3.63	
Total Xylenes*	<0.150	0.150	06/05/2014	ND	5.51	91.8	6.00	3.55	
Total BTEX	<0.300	0.300	06/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 89.5-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/05/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/05/2014	ND	193	96.7	200	4.09	
DRO >C10-C28	533	10.0	06/05/2014	ND	202	101	200	7.65	

Surrogate: 1-Chlorooctane 131 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	05/30/2014	Sampling Date:	05/29/2014
Reported:	06/06/2014	Sampling Type:	Soil
Project Name:	POWERS 31 FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BURNETT OIL		

Sample ID: PT. 3 @ 1' (H401666-09)

BTX 8021B		mg/L		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2014	ND	1.83	91.6	2.00	3.81	
Toluene*	<0.050	0.050	06/05/2014	ND	1.96	97.9	2.00	3.79	
Ethylbenzene*	<0.050	0.050	06/05/2014	ND	1.76	88.2	2.00	3.63	
Total Xylenes*	<0.150	0.150	06/05/2014	ND	5.51	91.8	6.00	3.55	
Total BTEX	<0.300	0.300	06/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 89.5-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/05/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/05/2014	ND	193	96.7	200	4.09	
DRO >C10-C28	878	50.0	06/05/2014	ND	202	101	200	7.65	

Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 136 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	05/30/2014	Sampling Date:	05/29/2014
Reported:	06/06/2014	Sampling Type:	Soil
Project Name:	POWERS 31 FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BURNETT OIL		

Sample ID: PT. 4 @ SURFACE (H401666-10)

BTX 8021B		mg/L		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.070	0.050	06/05/2014	ND	1.83	91.6	2.00	3.81	
Toluene*	1.74	0.050	06/05/2014	ND	1.96	97.9	2.00	3.79	
Ethylbenzene*	6.80	0.050	06/05/2014	ND	1.76	88.2	2.00	3.63	
Total Xylenes*	7.03	0.150	06/05/2014	ND	5.51	91.8	6.00	3.55	
Total BTX	15.6	0.300	06/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.5-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	411	200	06/05/2014	ND	193	96.7	200	4.09	
DRO >C10-C28	36300	200	06/05/2014	ND	202	101	200	7.65	

Surrogate: 1-Chlorooctane 134 % 65.2-140

Surrogate: 1-Chlorooctadecane 1010 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	05/30/2014	Sampling Date:	05/29/2014
Reported:	06/06/2014	Sampling Type:	Soil
Project Name:	POWERS 31 FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BURNETT OIL		

Sample ID: PT. 4 @ 6" (H401666-11)

BTEx 8021B		mg/L		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2014	ND	1.83	91.6	2.00	3.81	
Toluene*	<0.050	0.050	06/05/2014	ND	1.96	97.9	2.00	3.79	
Ethylbenzene*	0.059	0.050	06/05/2014	ND	1.76	88.2	2.00	3.63	
Total Xylenes*	<0.150	0.150	06/05/2014	ND	5.51	91.8	6.00	3.55	
Total BTEx	<0.300	0.300	06/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 89.5-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/05/2014	ND	193	96.7	200	4.09	
DRO >C10-C28	236	10.0	06/05/2014	ND	202	101	200	7.65	

Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	05/30/2014	Sampling Date:	05/29/2014
Reported:	06/06/2014	Sampling Type:	Soil
Project Name:	POWERS 31 FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BURNETT OIL		

Sample ID: PT. 4 @ 1' (H401666-12)

BTX 8021B		mg/L		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2014	ND	1.83	91.6	2.00	3.81	
Toluene*	<0.050	0.050	06/05/2014	ND	1.96	97.9	2.00	3.79	
Ethylbenzene*	<0.050	0.050	06/05/2014	ND	1.76	88.2	2.00	3.63	
Total Xylenes*	<0.150	0.150	06/05/2014	ND	5.51	91.8	6.00	3.55	
Total BTX	<0.300	0.300	06/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 89.5-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/05/2014	ND	193	96.7	200	4.09	
DRO >C10-C28	44.4	10.0	06/05/2014	ND	202	101	200	7.65	

Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	05/30/2014	Sampling Date:	05/29/2014
Reported:	06/06/2014	Sampling Type:	Soil
Project Name:	POWERS 31 FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BURNETT OIL		

Sample ID: PT. 5 @ SURFACE (H401666-13)

BTX 8021B		mg/L		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2014	ND	1.83	91.6	2.00	3.81	
Toluene*	1.36	0.050	06/05/2014	ND	1.96	97.9	2.00	3.79	
Ethylbenzene*	5.26	0.050	06/05/2014	ND	1.76	88.2	2.00	3.63	
Total Xylenes*	8.65	0.150	06/05/2014	ND	5.51	91.8	6.00	3.55	
Total BTX	15.3	0.300	06/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 89.5-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	532	200	06/05/2014	ND	193	96.7	200	4.09	
DRO >C10-C28	38900	200	06/05/2014	ND	202	101	200	7.65	

Surrogate: 1-Chlorooctane 137 % 65.2-140

Surrogate: 1-Chlorooctadecane 1020 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	05/30/2014	Sampling Date:	05/29/2014
Reported:	06/06/2014	Sampling Type:	Soil
Project Name:	POWERS 31 FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BURNETT OIL		

Sample ID: PT. 5 @ 6" (H401666-14)

BTX 8021B		mg/L		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2014	ND	1.83	91.6	2.00	3.81	
Toluene*	<0.050	0.050	06/05/2014	ND	1.96	97.9	2.00	3.79	
Ethylbenzene*	0.060	0.050	06/05/2014	ND	1.76	88.2	2.00	3.63	
Total Xylenes*	<0.150	0.150	06/05/2014	ND	5.51	91.8	6.00	3.55	
Total BTEX	<0.300	0.300	06/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.5-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/05/2014	ND	193	96.7	200	4.09	
DRO >C10-C28	482	10.0	06/05/2014	ND	202	101	200	7.65	

Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	05/30/2014	Sampling Date:	05/29/2014
Reported:	06/06/2014	Sampling Type:	Soil
Project Name:	POWERS 31 FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BURNETT OIL		

Sample ID: PT. 5 @ 1' (H401666-15)

BTX 8021B		mg/L		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2014	ND	1.83	91.6	2.00	3.81	
Toluene*	<0.050	0.050	06/05/2014	ND	1.96	97.9	2.00	3.79	
Ethylbenzene*	<0.050	0.050	06/05/2014	ND	1.76	88.2	2.00	3.63	
Total Xylenes*	<0.150	0.150	06/05/2014	ND	5.51	91.8	6.00	3.55	
Total BTX	<0.300	0.300	06/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 89.5-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/05/2014	ND	193	96.7	200	4.09	
DRO >C10-C28	52.2	10.0	06/05/2014	ND	202	101	200	7.65	

Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	05/30/2014	Sampling Date:	05/29/2014
Reported:	06/06/2014	Sampling Type:	Soil
Project Name:	POWERS 31 FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BURNETT OIL		

Sample ID: PT. 6 @ SURFACE (H401666-16)

BTX 8021B		mg/L	Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	06/05/2014	ND	1.83	91.6	2.00	3.81	
Toluene*	<0.200	0.200	06/05/2014	ND	1.96	97.9	2.00	3.79	
Ethylbenzene*	0.885	0.200	06/05/2014	ND	1.76	88.2	2.00	3.63	
Total Xylenes*	2.04	0.600	06/05/2014	ND	5.51	91.8	6.00	3.55	
Total BTX	2.92	1.20	06/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 89.5-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	06/05/2014	ND	400	100	400	3.92		

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	301	200	06/05/2014	ND	193	96.7	200	4.09	
DRO >C10-C28	39400	200	06/05/2014	ND	202	101	200	7.65	

Surrogate: 1-Chlorooctane 130 % 65.2-140

Surrogate: 1-Chlorooctadecane 1030 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	05/30/2014	Sampling Date:	05/29/2014
Reported:	06/06/2014	Sampling Type:	Soil
Project Name:	POWERS 31 FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BURNETT OIL		

Sample ID: PT. 6 @ 6" (H401666-17)

BTX 8021B		mg/L	Analyzed By: MS/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	06/05/2014	ND	1.83	91.6	2.00	3.81	
Toluene*	0.317	0.200	06/05/2014	ND	1.96	97.9	2.00	3.79	
Ethylbenzene*	4.69	0.200	06/05/2014	ND	1.76	88.2	2.00	3.63	
Total Xylenes*	10.6	0.600	06/05/2014	ND	5.51	91.8	6.00	3.55	
Total BTX	15.6	1.20	06/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 180 % 89.5-126

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	664	100	06/05/2014	ND	193	96.7	200	4.09	
DRO >C10-C28	16300	100	06/05/2014	ND	202	101	200	7.65	

Surrogate: 1-Chlorooctane 148 % 65.2-140

Surrogate: 1-Chlorooctadecane 389 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	05/30/2014	Sampling Date:	05/29/2014
Reported:	06/06/2014	Sampling Type:	Soil
Project Name:	POWERS 31 FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BURNETT OIL		

Sample ID: PT. 6 @ 1' (H401666-18)

BTX 8021B		mg/L		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2014	ND	1.83	91.6	2.00	3.81	
Toluene*	<0.050	0.050	06/05/2014	ND	1.96	97.9	2.00	3.79	
Ethylbenzene*	0.120	0.050	06/05/2014	ND	1.76	88.2	2.00	3.63	
Total Xylenes*	0.294	0.150	06/05/2014	ND	5.51	91.8	6.00	3.55	
Total BTX	0.414	0.300	06/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 89.5-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/05/2014	ND	193	96.7	200	4.09	
DRO >C10-C28	3380	50.0	06/05/2014	ND	202	101	200	7.65	

Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 168 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	05/30/2014	Sampling Date:	05/29/2014
Reported:	06/06/2014	Sampling Type:	Soil
Project Name:	POWERS 31 FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BURNETT OIL		

Sample ID: PT. 7 @ SURFACE (H401666-19)

BTX 8021B		mg/L		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2014	ND	1.83	91.6	2.00	3.81	
Toluene*	<0.050	0.050	06/05/2014	ND	1.96	97.9	2.00	3.79	
Ethylbenzene*	0.254	0.050	06/05/2014	ND	1.76	88.2	2.00	3.63	
Total Xylenes*	0.445	0.150	06/05/2014	ND	5.51	91.8	6.00	3.55	
Total BTX	0.700	0.300	06/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 89.5-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	19.7	10.0	06/05/2014	ND	193	96.7	200	4.09	
DRO >C10-C28	658	10.0	06/05/2014	ND	202	101	200	7.65	

Surrogate: 1-Chlorooctane 93.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.6 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	05/30/2014	Sampling Date:	05/29/2014
Reported:	06/06/2014	Sampling Type:	Soil
Project Name:	POWERS 31 FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BURNETT OIL		

Sample ID: PT. 7 @ 6" (H401666-20)

BTX 8021B		mg/L		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2014	ND	1.83	91.6	2.00	3.81	
Toluene*	<0.050	0.050	06/05/2014	ND	1.96	97.9	2.00	3.79	
Ethylbenzene*	<0.050	0.050	06/05/2014	ND	1.76	88.2	2.00	3.63	
Total Xylenes*	<0.150	0.150	06/05/2014	ND	5.51	91.8	6.00	3.55	
Total BTX	<0.300	0.300	06/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 89.5-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/05/2014	ND	193	96.7	200	4.09	
DRO >C10-C28	<10.0	10.0	06/05/2014	ND	202	101	200	7.65	

Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	05/30/2014	Sampling Date:	05/29/2014
Reported:	06/06/2014	Sampling Type:	Soil
Project Name:	POWERS 31 FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BURNETT OIL		

Sample ID: PT. 7 @ 1' (H401666-21)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2014	ND	1.92	95.8	2.00	0.523		
Toluene*	<0.050	0.050	06/05/2014	ND	2.04	102	2.00	0.675		
Ethylbenzene*	<0.050	0.050	06/05/2014	ND	1.83	91.6	2.00	0.338		
Total Xylenes*	<0.150	0.150	06/05/2014	ND	5.80	96.7	6.00	0.173		
Total BTX	<0.300	0.300	06/05/2014	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/05/2014	ND	133	66.4	200	7.86	
DRO >C10-C28	<10.0	10.0	06/05/2014	ND	148	73.9	200	11.8	

Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 116 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	05/30/2014	Sampling Date:	05/29/2014
Reported:	06/06/2014	Sampling Type:	Soil
Project Name:	POWERS 31 FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BURNETT OIL		

Sample ID: PT. 8 @ SURFACE (H401666-22)

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	06/05/2014	ND	1.92	95.8	2.00	0.523	
Toluene*	<0.500	0.500	06/05/2014	ND	2.04	102	2.00	0.675	
Ethylbenzene*	<0.500	0.500	06/05/2014	ND	1.83	91.6	2.00	0.338	
Total Xylenes*	<1.50	1.50	06/05/2014	ND	5.80	96.7	6.00	0.173	
Total BTEx	<3.00	3.00	06/05/2014	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	06/05/2014	ND	133	66.4	200	7.86	
DRO >C10-C28	18800	100	06/05/2014	ND	148	73.9	200	11.8	

Surrogate: 1-Chlorooctane 89.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 772 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	05/30/2014	Sampling Date:	05/29/2014
Reported:	06/06/2014	Sampling Type:	Soil
Project Name:	POWERS 31 FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BURNETT OIL		

Sample ID: PT. 8 @ 6" (H401666-23)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2014	ND	1.92	95.8	2.00	0.523	
Toluene*	<0.050	0.050	06/05/2014	ND	2.04	102	2.00	0.675	
Ethylbenzene*	<0.050	0.050	06/05/2014	ND	1.83	91.6	2.00	0.338	
Total Xylenes*	<0.150	0.150	06/05/2014	ND	5.80	96.7	6.00	0.173	
Total BTX	<0.300	0.300	06/05/2014	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/05/2014	ND	133	66.4	200	7.86	
DRO >C10-C28	288	10.0	06/05/2014	ND	148	73.9	200	11.8	

Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	05/30/2014	Sampling Date:	05/29/2014
Reported:	06/06/2014	Sampling Type:	Soil
Project Name:	POWERS 31 FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BURNETT OIL		

Sample ID: PT. 8 @ 1' (H401666-24)

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2014	ND	1.92	95.8	2.00	0.523	
Toluene*	<0.050	0.050	06/05/2014	ND	2.04	102	2.00	0.675	
Ethylbenzene*	<0.050	0.050	06/05/2014	ND	1.83	91.6	2.00	0.338	
Total Xylenes*	<0.150	0.150	06/05/2014	ND	5.80	96.7	6.00	0.173	
Total BTEx	<0.300	0.300	06/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/05/2014	ND	133	66.4	200	7.86	
DRO >C10-C28	684	10.0	06/05/2014	ND	148	73.9	200	11.8	

Surrogate: 1-Chlorooctane 93.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Mike Snyder, Organic Supervisor

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Mike Snyder, Organic Supervisor



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By: Josh Balcom		Date: 5-29-14		Received By: Jodi Benson		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:	
		Time: 12:15				Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS: email: hconder@riceswd.com; lflores@rice-ecs.com; lweinheimer@rice-ecs.com; knorman@rice-ecs.com; jkamplain@rice-ecs.com; sedwards@rice-ecs.com; cursanic@rice-ecs.com Environmental Tech: j.balcom @rice-ecs.com	
		Time:					
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		CHECKED BY: (Initials) JB	

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Josh Balcom		Date: 5-29-14 Time: 12:15	Received By: Jodi Henson		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:		Date:	Received By:		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)		Time:	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/>		REMARKS: email: hconder@riceswd.com; lflores@rice-ecs.com; lweinheimer@rice-ecs.com; knorman@rice-ecs.com; jkamplain@rice-ecs.com; sedwards@rice-ecs.com; cursanic@rice-ecs.com Environmental Tech: jbalcom @rice-ecs.com	
Sampler - UPS - Bus - Other:			CHECKED BY: (Initials) JH			

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

#54



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By: Josh Balcom Date: 5-29-14 Time: 12:15				Received By: Jodi Benson Date: _____ Time: _____				Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #: _____ REMARKS:			
Relinquished By: _____ Date: _____ Time: _____				Received By: _____ Date: _____ Time: _____				email: hconder@riceswd.com; lflores@rice-ecs.com; lweinheimer@rice-ecs.com; knorman@rice-ecs.com; jkamplain@rice-ecs.com; sedwards@rice-ecs.com; cursanic@rice-ecs.com Environmental Tech: jbalcom @rice-ecs.com			
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____				Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) JJB					

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



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

June 10, 2014

HACK CONDER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: POWERS 31 FEDERAL #3

Enclosed are the results of analyses for samples received by the laboratory on 06/09/14 14:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	06/09/2014	Sampling Date:	06/09/2014
Reported:	06/10/2014	Sampling Type:	Soil
Project Name:	POWERS 31 FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BURNETT OIL		

Sample ID: PT. 6 VERTICAL 2' (H401746-01)

BTEX 8260B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2014	ND	2.31	115	2.00	1.63	
Toluene*	<0.050	0.050	06/10/2014	ND	1.86	93.1	2.00	14.0	
Ethylbenzene*	<0.050	0.050	06/10/2014	ND	2.10	105	2.00	0.396	
Total Xylenes*	<0.150	0.150	06/10/2014	ND	6.37	106	6.00	0.661	
Total BTEX	<0.300	0.300	06/10/2014	ND					

Surrogate: Dibromofluoromethane 96.3 % 61.3-142

Surrogate: Toluene-d8 106 % 71.3-129

Surrogate: 4-Bromofluorobenzene 111 % 65.7-141

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/10/2014	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/10/2014	ND	204	102	200	5.28	
DRO >C10-C28	706	50.0	06/10/2014	ND	215	107	200	7.85	

Surrogate: 1-Chlorooctane 70.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.2 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

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

#54

Appendix C

Photo Documentation

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

Burnett Oil Co. Powers 31 Federal #3

Unit Letter H, Section 31, T17S, R31E



Initial release area, facing northwest

5/28/14



Initial release area, facing south

5/28/14



Initial release area, facing west

5/28/14



Initial release area, facing north

5/28/14



Initial release area, facing west

5/28/14



Initial release area, facing northwest

5/28/14



Sampling release area, facing south

5/29/14