

PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

December 22<sup>nd</sup>, 2014

#### Mike Bratcher

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

> RE: Termination Request Burnett Oil Co. Powers 31 Federal #3 (2RP-2331) 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 24<sup>th</sup>, 2014, lightening 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 28<sup>th</sup>, 2014, and an initial C-141 was sent to both agencies on June 4<sup>th</sup>, 2014 for approval (Appendix A).

RECS personnel were on site beginning on May 28<sup>th</sup>, 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.

A Corrective Action Plan (CAP) was submitted to NMOCD and BLM on June 11<sup>th</sup>, 2014, and NMOCD approved the CAP on June 24<sup>th</sup>, 2014. The CAP stated that in order to allow further site remediation, the battery had to be moved to a temporary location on the lease pad. Since the bermed battery location was lined throughout, this area would be scraped to remove the contaminated gravel and the two liners that encompassed the tank battery. The gravel would be taken to a NMOCD approved facility for disposal. The battery area would be re-lined with a 40-mil liner, the gravel would be replaced with clean, imported gravel and new tanks would be installed to re-commence disposal activities. Berms would 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 would be scraped down 6 inches. The area around Point 6 would be excavated to 2 ft bgs. Once the excavation was completed, final wall and bottom samples from the excavation would be taken and sent to a commercial laboratory to confirm that constituents were below regulatory standards. The area around Point 7 showed constituents below regulatory standards at all depths. Therefore, this area would be lightly scraped to remove visible staining.

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

Corrective actions began at the site on June 9<sup>th</sup>, 2014. The release area, except the area around Point 6, was scraped down 6 inches (Figure 2). The area around Point 6 was excavated to a depth of 2 ft bgs. Once the 2 ft excavation was completed, wall samples and a 3 point bottom composite sample were taken and field tested for chlorides and organic vapors. The samples were then taken to a commercial laboratory for analysis (Appendix C). The wall samples and the 3 point bottom composite sample returned laboratory chloride, GRO, DRO and BTEX readings of non-detect.

On July 14<sup>th</sup>, 2014, NMOCD was notified that the installation of the new battery had commenced. NMOCD responded by asking if samples had been taken from beneath the removed battery, prior to the installation of the new battery over this area. On July 15<sup>th</sup>, 2014, three soil samples were taken from the base of the prior lined battery facility. The samples were field tested for chlorides and organic vapors. The samples were then taken to a commercial laboratory for analysis. All three samples returned chloride, GRO, DRO and BTEX values below regulatory standards.

On October 20<sup>th</sup>, 2014, a request was sent to NMOCD and BLM to backfill the site. NMOCD and BLM approved the site to be backfilled on October 21<sup>st</sup>, 2014. All excavated soil, for a total of 656 cubic yards, was taken to a NMOCD approved facility for disposal. Clean soil was imported to the site to replace all soils taken for disposal. A sample of the imported soil was taken to a commercial laboratory for analysis. The imported caliche returned a chloride reading of 112 mg/kg, and the imported top soil returned a chloride reading of non-detect. The scrape

and excavation were backfilled with the clean soil and contoured to the surrounding location. On November 14<sup>th</sup>, 2014, soil amendments were added to the pasture areas and then these areas were seeded with LPC mix

Photo documentation of the field activities can be found in Appendix D.

Given that the site has been remediated per the approved CAP, and NMOCD and BLM approved the site to be backfilled on October 21<sup>st</sup>, 2014, Burnett respectfully requests 'remediation termination' and site closure. The final C-141 for the site can be found in Appendix E.

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,

Lara Weinheimer

Project Scientist

**RECS** 

(575) 441-0431

#### Attachments:

Figure 1 – Initial Sampling Data

Figure 2 – Excavation Map

Appendix A – Initial C-141

Appendix B – Initial Sampling Labs

Appendix C – Corrective Action Labs

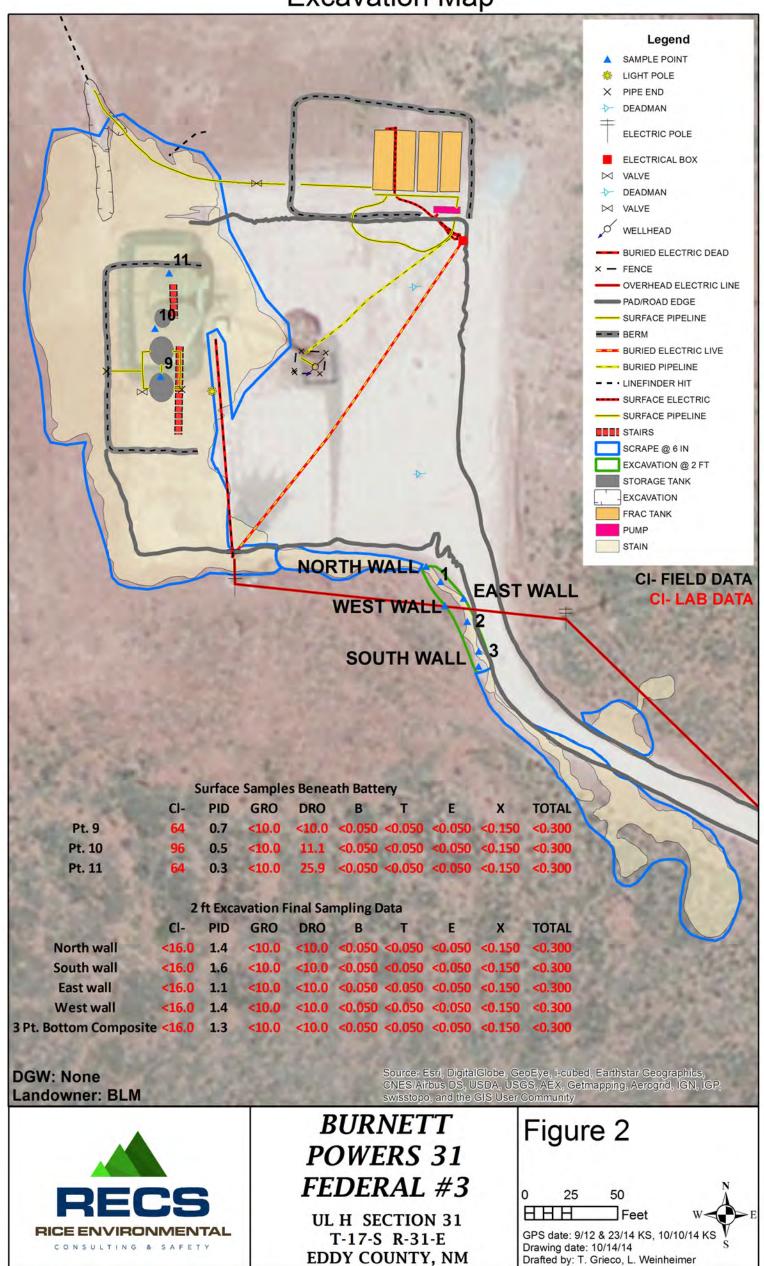
Appendix D – Photo Documentation

Appendix E – Final C-141

## Figures

**Initial Sampling Data** Point 1 Legend GRO DRO SAMPLE POINT **DEADMAN** 0 < 0.05 **ELECTRIC POLE** 13.4 <10 FLARE TOWER Point 2 LIGHT POLE PID GRO DRO B < 0.05 VALVE SS 79.1 < 0.05 WELLHEAD 0 <10 < 0.05 PIPE END TANK TOP Point 3 BURIED ELECTRIC PID DRO BTEX CI-GRO 42.8 71500 0.06 2.5 CROSSOVER < 0.15 < 0.3 BERM 15.4 < 0.05 < 0.05 < 0.15 < 0.3 ELECTRICAL PANEL × -× FENCE OVERHEAD ELECTRIC LINE PAD/ROAD EDGE SURFACE ELECTRIC SURFACE PIPELINE ■■■■ DAMAGED CATWALK **CHEMICAL TANK** PUMP BASE STAIN STORAGE TANK **TRANSFORMER CI- FIELD DATA CI- LAB DATA** 26,426 SQ FT Point 4 DRO **BTEX** 15.6 206.4 0.07 < 0.3 < 0.3 Point 5 PID **BTEX** CI-GRO DRO 67.5 < 0.05 < 0.3 770 SQ FT 0.2 Point 6 **BTEX** 2.92 111.7 30.2 40.5 Point 7 GRO DRO B 3.9 <0.05 <0.05 <0.05 4.9 Point 8 PID GRO DRO В T CI-E X BTEX <100 18800 <0.05 <0.05 <0.05 <0.15 < 0.3 SS <16 4.6 0.4 < 0.3 < 0.05 < 0.05 < 0.05 1.5 < 0.3 **DGW: None** Landowner: BLM Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community **BURNETT** Figure 1 POWERS 31 FEDERAL #3 50 100 **UL H SECTION 31** GPS date: 5/28/14 TG T-17-S R-31-E Drawing date: 6/9/14 EDDY COUNTY, NM Drafted by: T. Grieco/L. Weinheimer

### **Excavation Map**



# 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

JUN 04 2014

RECEIVED

Form C-141 Revised August 8, 2011

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

ion NMGGM APTESIA Revised August 8, 2011

September 19,15,29 NMAC.

			Rele	ease Notific	ation	and Co	rrective A	ction			
n HMF	14157	45550	Q			<b>OPERA</b>	TOR .	⊠ Initi	al Report	☐ Fina	al Report
Name of Co	mpany B	Burnett Oil C	o.	3080		Contact Sh	awna Matthews				
		ake Rd, Loc		VM 88255			Vo. (575) 219-0	6370			
Facility Nar	ne Power	rs 31 Federal	#3		]	Facility Typ	e SWD				
Surface Ow	ner BLM			Mineral O	wner			API N	o. 30-015-3	1806	
				LOCA	TION	OF REI	LEASE				
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/West Line	County		
Н	31	178	31E	1980	1	FNL	660	FEL	Eddy		
			1		864	_ Longitude	-103.902551				
				NAT	URE	OF RELI	EASE				
Type of Rele	ase Produc	ced water and	oil				Release 1,400 bl	bls Volume	Recovered 1	,126 bbs of	fluid
Source of Re	lease SWT	) tanks					vater/60 bbls oil lour of Occurrence	Date and	Hour of Disc	10 Very 5/7.	4/14
Boules of Re	10430 0171	Junes				5/24/14 3		3:00 am	TIOM OF DISC	.0vc1y 312	7/17
Was Immedia	ate Notice (					If YES, To		<del></del>			
			Yes 🗵	No Not Re	quired		- BLM and NMC				
By Whom? Was a Water							lour 5/28/14 3::				
was a water	course real		Yes 🗵	No		11 165, VC	nume impacung i	ne watercourse.			
If a Watercou	irse was Im	pacted, Descr.	ibe Fully.	*		<u> </u>	<del></del>				
									-		
Lightning str	uck a produ as shut off		kauthe S'	n Taken.* WD and burnt dow arrived on the scer							
Describe Are A total of 27, NMOCD and	196 square	and Cleanup A feet of berme dards.	Action Tal d battery,	ken.* lease pad, caliche	road and	d pasture land	l were affected by	y the release. The	release will b	e remediate	:d to
regulations al public health should their o or the environ	Il operators or the envir operations h nment. In a	are required to ronment. The ave failed to a	o report an acceptant adequately OCD accept	e is true and complete is true and complete of a C-141 report investigate and reparted of a C-141 report ance of a C-141 report investigate.	lease no it by the mediate	otifications and NMOCD mesonations and contaminations are contaminations.	nd perform correct arked as "Final R on that pose a thr	ctive actions for re eport" does not re eat to ground wate	leases which the leases which the leases which the leases with the leases which the leases with the leases which the leases which the leases which the leases with the leases with the leases which the leases with the lease with the leases with the leases with the leases with the lease with the lease with the leases with the leases with the lease with the	may endang ator of liabi ter, human l	ger ility health
Signatures	Show	10 Ma	the	8		Approved by	OIL CON	SERVATION  pecialist: //	DIVISIO		
Printed Name	: Shawna	Matthews					<del>, , , , , , , , , , , , , , , , , , , </del>	<u> </u>	4	in	
Title: Senior	Production	Technician				Approval Dat	e: 6/6/1c	/ Expiration	Date: 1	A	
E-mail Addre	ss: smatth	ews@burnetto	oil.com			Conditions of	Approval:		Attached	П	
Date:			Phone	: (575) 219-6370	, ''	Rēmediatior	per OCD Rule	& Guidelines, &	, j 4		
Attach Addit	tional Shee	ets If Necess		. (313) 213-031(	— lik	ce approval	by BLM. <u>SUBM</u>	IIT REMEDIATIO	N	7 R D	7-73

## Appendix B Initial Sampling Labs



June 06, 2014

HACK CONDER
RICE ENVIRONMENTAL CONSI

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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.

Wite Sough

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,

Mike Snyder

Organic Supervisor



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)

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*	0.138	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 BTEX	0.439	0.300	06/05/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 9	% 89.5-12	6						
Chloride, SM4500Cl-B	Chloride, SM4500Cl-B mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d 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 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	741 9	63.6-15	4						

#### Cardinal Laboratories \*=Accredited Analyte

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

wite South



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)

BTEX 8021B	mg/	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 %	6 89.5-12	6						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	97.3 %	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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

Mile Sough



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)

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*	<0.050	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 9	% 89.5-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	107 %	63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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

wite South



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)

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*	0.148	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 BTEX	0.448	0.300	06/05/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 89.5-12	6						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	3.92	
TPH 8015M	mg,	'kg	Analyze	d 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	% 65.2-14	0						

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 whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Mile Sough



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)

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*	< 0.050	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 %	% 89.5-12	6						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	105 9	63.6-15	4						

#### Cardinal Laboratories \*=Accredited Analyte

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

wite South



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 Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **BURNETT OIL** 

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

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*	<0.050	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 9	% 89.5-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	111 9	% 63.6-15	4						

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.

wite Single



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)

BTEX 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 BTEX	2.50	0.300	06/05/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	136 9	% 89.5-12	6						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	06/05/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d 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	

ND

178

89.0

200

7.42

06/05/2014

Surrogate: 1-Chlorooctane 135 % 65.2-140
Surrogate: 1-Chlorooctadecane 2080 % 63.6-154

71500

200

Cardinal Laboratories \*=Accredited Analyte

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

Whe South

DRO >C10-C28



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)

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*	< 0.050	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 %	% 89.5-12	6						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/05/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 %	6 65.2-14	0						
Surrogate: 1-Chlorooctadecane	112 %	63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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



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)

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*	<0.050	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 %	6 89.5-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/05/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<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 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	136 %	63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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



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)

RTFY 8021R

BIEX 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 BTEX	15.6	0.300	06/05/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 89.5-12	6						
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	Analyze	d 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	

Analyzed By: MC/

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 whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Whe Sough



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 Sample Received By: Project Number: NONE GIVEN 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 9	% 89.5-12	6						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	114	% 63 6-15	4						

114 % Surrogate: 1-Chlorooctadecane 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.

wite Single



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)

BTEX 8021B	mg/	L	Analyze	d 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 9	% 89.5-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	105 9	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or 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.

wite South



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)

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*	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 BTEX	15.3	0.300	06/05/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 5	% 89.5-12	6						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d 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 9	% 65.2-14	0						

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 whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Me Sough



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)

BTEX 8021B	mg/	L	Analyze	d 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 9	% 89.5-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	115 9	63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or 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.

wite South



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: Sample Received By: NONE GIVEN Jodi Henson

Project Location: **BURNETT OIL** 

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

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*	< 0.050	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	99.6	% 89.5-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 %	65.2-14	70						
Surrogate: 1-Chlorooctadecane	108 9	63 6-15	14						

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.

wite Single



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)

BTEX 8021B	mg/	'L	Analyze	d 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 BTEX	2.92	1.20	06/05/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 89.5-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/05/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d 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 9	% 65.2-14	0						

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 whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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)

BTEX 8021B	mg/	'L	Analyze	d 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 BTEX	15.6	1.20	06/05/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	180 9	% 89.5-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d 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 %	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	389 9	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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



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)

BTEX 8021B	mg/	'L	Analyze	d 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 BTEX	0.414	0.300	06/05/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 89.5-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d 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 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	168 9	% 63.6-15	4						

55.0 157

Cardinal Laboratories \*=Accredited Analyte

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



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)

BTEX 8021B	mg/	'L	Analyze	d 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 BTEX	0.700	0.300	06/05/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 89.5-12	6						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	96.6	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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

Mile Sough



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 Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **BURNETT OIL** 

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

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*	<0.050	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	101 9	% 89.5-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	104	% 63 6-15	4						

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.

wite Single



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)

BTEX 8021B	mg/	kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	98.9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	116 9	63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or 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.



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	Analyze	d 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 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d 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	
				ND	148	73.9	200		

Cardinal Laboratories \*=Accredited Analyte

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

wite South

772 %

63.6-154

Surrogate: 1-Chlorooctadecane



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)

BTEX 8021B	mg/	kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	99.7	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	117 %	63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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



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 Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **BURNETT OIL** 

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

BTEX 8021B	mg/	'kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/05/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	113 9	% 63.6-15	4						

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.

wite Single



#### **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 whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Mile Sough

### ARDINAL LABORATORIES

#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: RECS						ANALYSIS REQUEST																		
Project Manager: Laura Flores						P.O. #:												T	T	T				
Address:								Company:										တ						
City: Hobbs	City: Hobbs State: NM Zip: 88240								Attn:							1			ou					
Phone #:								Address:							Σ			Ę.						
Project #:	oject #: Project Owner:							City:									-	3/A						
Project Name: Bu-ne H o. 1							State: Zip:					Chlorides	8015	BTEX	TPH	SUC.								
Project Location: Powers 31 Federal #3						Phone #:					윤	Texas T			Cations/Anions	TDS								
Sampler Name: Josh Bakom					Fax #:						을					F								
FOR LAB USE ONLY		T.	Τ	F	_	MAT	RIX		П	PRE	SER	V.	SAMPLI	NG	ठ	TPH	_	[6]	te					
Lab I.D. H4 <i>0 llglolo</i>	Sample I.D.	(G)RAB OR (C)OMF	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	Olden.	DATE	TIME		T			Complete					
1	Pt. 1 @ Surface	G	1			1							5-29-14	12:00										
2	A.106"	G	i			1							-29-14		/	-	/							
3	Pt.1@1'	9										3	-29-14	12:10	/	/	/							
4	Pt. 2 @ Surface	19	1			1						ß	-29-14	12:15	-	/	1							
5	A.2 @ 611	G	1			1						5	-29-14	(2:20	-	-	/							
6	Pt.2 @ 1'	9	1			1						5	-29-14	12:25	-	/	1							
7	Pt. 3 @ Surface	6	1		1	1							7-29-14		_	/	/							
8	Pt.3 @ 6"	16	1			1						6	-29-14	12:35	-	-	-							
9	P+.3 @ 1'	6	1			1							-24-14		/	/	/							
10	4.4 C Surface  d Damages. Cardinal's liability and client's exclusive remedy for	6	Ш			1						5	5-29-14	12:45		-	/							

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 walved 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 prefits incurred by client, its subcidiaries, affiliates or successors arising out of or related to the performance of services between the transfer such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:  Josh Balcom  Relinquished By:	5-29-14 Times: 15	ejved By:	nson	Phone Result:							
	Time:										
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	-10.4	Sample Condition Cool Intact Yes Yes No No	CHECKED BY:	cursanic@ Environme	rice-ec	s.com		@rice-ecs.co			

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

## ARDINAL LABORATORIES

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

greet Manager: Laura Flores  dress:  y: Hobbs  State: NM Zip: 88240  At Array	COLHER: Company: Attn: Address: City: State: Phone #: Fax #: PRESERV.	Zip:  SAMPLING  DATE TIME	Chlorides	TPH 8015 M	BTEX	Complete Cations/Anions				
State: NM Zip: 88240  All Sipect Hobbs  State:	Company: Attn: Address: City: State: Phone #: Fax #: PRESERV.	SAMPLING  DATE TIME	Chlorides		BTEX	$\sim$ 1				
State: NM Zip: 88240  At Since #:  Project Owner:  Since the control of the contr	Address: City: State: Phone #: Fax #: PRESERV.	SAMPLING  DATE TIME	Chlorides		BTEX	$\sim$ 1				
Since #:  Sigect #:  Sigect Name:  Sigect Location:  Powers 31 Federal #3  Signification Powers 31 Federal #3  Plantal Water Name:  Signification Powers 31 Federal #3  Signification Powers 32 Federal #3  Signif	Address: City: State: Phone #: Fax #: PRESERV. OTHER:	SAMPLING  DATE TIME	Chlorides		BTEX	$\sim$ 1				
piect #:  Project Owner:  Cipiect Name:  Diject Location:  Powers 31 Federal #3  Pipiect Location:  Powers 31 Federal #3  Pipiect Name:  MATRIX  RLAB USE ONLY  Sample I.D.  Sample I.D.  Sample I.D.	City: State: Phone #: Fax #: PRESERV. OTHER:	SAMPLING  DATE TIME	Chlorides		BTEX	$\sim$ 1				
SINDER NAME: Burnett and spect House St. Federal #3  Indicate the special property of the special prop	State: Phone #: Fax #: PRESERV. OTHER:	SAMPLING  DATE TIME	Chlorides		BTEX	$\sim$ 1				
Diect Name: DEFRENT #3  Diect Location: Powers 31 Federal #3  Impler Name: Josh Balcom  RLAB USE ONLY  ABOUNDMATEIX  BEIND GIF CONTAINERS  RAB I.D. Sample I.D.	ACID/BASE:  LCE / COOL  OTHER:	SAMPLING  DATE TIME	Chloride	TPH 801	BTEX	$\sim$ 1				
mpler Name: Josh Balcom  RLAB USE ONLY  ab I.D. Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.	ACID/BASE: #x acid/Base: cool cool cool cool cool cool cool coo	DATE TIME	Chlori	TPH 80	BTE	$\sim$ 1				
#CONTAINERS GROUNDWATER WASTEWATER SOIL SLUDGE STUDGE STUDGE SELDEN BETTER STUDGE STUD	ACIDIBASE: BASE ICE / COOL STATE OTHER:	DATE TIME	Chl	TPH	8	$\sim$ 1				
# CONTAINERS GROUNDWATER WASTEWATER SOIL SLUDGE STATES.	OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME	0	TP	1	Complete				
#CONTAINE (G) RAB OR (						Comple				
11 Pt.4 @ 6" G.1			-			_	-		$\rightarrow$	+
17 044 81' (91)		5-24-14 12:50	/	/	-					
		5-29-14 12:55	/	-	1		1		-	
13 045 c Surface 611		5-29-14 1:00	/	-	1		-			+
13 P4.5 C Surface GI		5-24-14 1:05	-	-	/	-	-	-	-	+
15 8.5 C 1' GIL		5-29-14 1:10	1	-	/	_	-		$\rightarrow$	-
16 A.4 @ Surface 611		5-29-14 1:15	1	/			-	-	++	-
17 4.6 @ 6" [6]		5-24-14 1:20	1	1		_	+	+	-	-
18 A. 6 @ 1' GI		5-29-14 1:25	1	1		-	-	-	-	+
19 81.7 @ Surface [9]		5-24-14 1:30	1	1		-	+	-	+	-
70 0,7 9, 10"		5-29-14 1:37	1	1	1					
ASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or yees. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and re yees. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and re	or tort, shall be limited received by Cardinal v	to the amount paid by the client within 30 days after completion o	for the f the applica	able						
yses. All claims including those for negligance and any other cause whatsoever shall be deemed warved unless must be missed and to the control of the contro	oss of use, or loss of p s based upon any of th	e above stated reasons or other	vise.		- (7) N	a Add	d'I Phone	4-		
Date: S-21-14 Received By:	/ A	Phone R Fax Res		☐ Ye			d'I Fax #:			

affiliates or successors arising out of or related to the performa Relinquished By:	Date: 5-29-14	Received By:		Phone Result: Fax Result:			Add'l Phone #: Add'l Fax #:	
Josh Balcom	Times: 15	Mai He	nson	REMARKS: email: hcc	onder@i	riceswo	d.com; lflores@	grice-ecs.com;
Relinquished By:	Time:	<i>y</i>		I lweinheime	er@rice	-ecs.co	om; knorman@ ; sedwards@ri	price-ecs.com;
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool Intact Dives Yes	CHECKED BY:	cursanic@ Environme	rice-ecs	s.com		@rice-ecs.com
Sampler - UPS - Bus - Ottler.		□ No □ No	UVV			0.	2010011	

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



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

## ARDINAL LABORATORIES

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

Company Name:	RECS		101	2,0						BI	LL	70	100				P	NAL	YSIS F	REQUEST		
Project Manager								P.C	). #:													
Address:	Ludia i ioios							Co	mpa	ny:					- 3			S				
City: Hobbs	State: NM	Zip	: 88	240	1			Att	n:									Cations/Anions				
Phone #:	Fax #:							Ad	dres	s:								A	-			
Project #:	Project Owne	r:						Cit	y:					S	Σ		되	18/	- 10	1 1		- 1
Project Name:	Burnett oil							Sta	ate:		Zip			g	15	×	片	Ö	S			
Project Location	: Powers 31 Federal #3							Ph	one	#:				Chlorides	801	BTEX	Texas TPH	at	TDS			
Sampler Name:	Josh Balcom	_	_	_	_			_	x #:	050		AMPLI	10	烹	TPH	B	X					
FOR LAB USE ONLY		0.			M	ATRI	X		PRE	SERV	1	AMPLI	NG	10	T		F	ete				
Lab I.D.	Sample I.D.	S(G)RAB OR (C)ON	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL OTHER:		)ATE	TIME					Complete		Ш		
21	P+7 @ 1'		1			1					5-2	29-14	1:40	/						-	++	_
22 23	Pt 8 @ Sufface	966	1					L		1			1:45	1		-				-	+	_
23	P18 @ 6x1		1			7	+	1	Н	+			1:50	1		-	-			++	+++	
24	Pt.8 @ 11	9	1	$\vdash$	-	+	+	-	Н	+	5-4	4-14	1:55	1	-	-				+	1	
		╀	╀	Н	+	+	+	+		+	+											
		+	+	Н	+	+	+	+		+	✝											
		+	+			+	+	+		1	T											
		+	+			1	+	T														
	Continue Enhills and clientle exclusion ramedy for	1	1																	3		

PLEASE NOTE: Liability and Damages. Cardinal's fiability 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 uniess 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.

affiliates or successors arising out of or related to the performant Relinquished By:	Date: S-29-14 Reco	gardless of whether such claim is based eived By:	upon any or the active stated to	Phone Result: Fax Result:	☐ Yes	☑ No ☑ No	Add'l Phone #: Add'l Fax #:	
Josh Balcom Relinquished By:	Time 2:15	OU SU	nson	email: hcc	onder@	ricesw	vd.com; lflores@ com; knorman@ n; sedwards@ri	price-ecs.com;
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool Intact Yes Yes	(Initials)	cursanic@ Environme	rice-ec	s.com		@rice-ecs.com
		□ No □ No	4					

#54

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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. Keens

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY 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	Analyze	d 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	% 61.3-14	22						
Surrogate: Toluene-d8	106	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	111 9	% 65.7-14	1						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/10/2014	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	94.2	% 63.6-15	4						

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 whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or 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 related 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 whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Lust!!

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

## ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

Company Name	: RECS										BI	LL TO							ANA	YSIS	REQ	UEST			
Project Manager	r: Laura Flores								P.0	.#:															
Address:									Con	npar	ıy:								S						
City: Hobbs	*	State: NM	Zip	: 88	240				Attr	1:									ō.					1	
Phone #:		Fax #:							Add	iress	s:								An						
Project #:		Project Owner							City	<i>r</i> :				1,	0	$\geq$		I	1/8		- 1				
Project Name:	Burnett oil	co.							Stat	te:		Zip:		1 5	9	15	×	유	9	m					
Project Location		Fed#3							Pho	ne #	<b>#</b> :			1.5	Chlorides	<b>TPH 8015 M</b>	BTEX	Texas TPH	Cations/Anions	TDS					
Sampler Name:	1	ALCOM						_	Fax				-	13	Ĕ	I	B	×	0	-					1
FOR LAB USE ONLY					T	MA	TRIX		-	PRES	SERV	SAMP	LING	10	기	0		He	ete						
Lab I.D.	Sample I.		(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	OTHER:		OTHER:		TIME (253C	_		1	_		Complete						
	ried parties	^	1																			_			_
														_	1						_	_		-	-
			_	Ц		+			4	1	1	_	-	+	-			-	-	$\vdash$	-	+	-	+	$\vdash$
		1-1	-	Н	-	+	-	$\vdash$	-	-	+	-	-	+	+					$\vdash$		-	+	+	1
			⊢	Н	-	+	-		+	+	+		+-	+	+				-	$\vdash$	-	_	+	1	
_			$\vdash$	Н		+	$\vdash$	H	+		+			+	$\dashv$										
			$\vdash$	Н	+	+	1	Н	1					$\top$	$\neg$										
			1		$\pm$	$^{\dagger}$			1	T	$\top$														
PLEASE NOTE: Liability a	nd Damages. Cardinal's liability and cli ing those for negligence and any other	ent's exclusive remedy for	any dai	m arisi	g wheth	er base	d in co	ntract	or tert,	shall b	e limite	d to the amount	paid by the clie	nt for the	policabl	le									
	ing those for negligence and any other Cardinal be liable for incidental or const ing out of or related to the performance																								
Relinquished B		Date: 9/14 Time: 25			ed B			1	6	n.	10	m	Phone Fax Re REMA	Result:		□ Ye		No No		Phone # Fax #:	k .				
Refinquished B	y:	Date:	Re	cei	ed E	y:	2						lwei	nheir	me	r@ri	ice-e	ecs.c	om;	knorn	nan@	rice-e	ecs.com	m;	
	: (Circle One) - Bus - Other:				C	ool D Ye	Inta	ct	-	0	HEC	KED BY:	curs	anic	@r	rice-	ecs.							e-ecs.	.com

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



# Appendix C Corrective Action Labs



July 24, 2014

LAURA FLORES
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 07/16/14 15:00.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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.

Celes D. Keens

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY LAURA FLORES

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 07/16/2014 Sampling Date: 07/15/2014

Reported: 07/24/2014 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. 9 @ SURFACE BENEATH TANK (H402160-01)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2014	ND	2.41	120	2.00	2.72	
Toluene*	<0.050	0.050	07/23/2014	ND	2.20	110	2.00	3.49	
Ethylbenzene*	<0.050	0.050	07/23/2014	ND	2.45	122	2.00	4.14	
Total Xylenes*	<0.150	0.150	07/23/2014	ND	7.86	131	6.00	4.44	
Total BTEX	<0.300	0.300	07/23/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/21/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/18/2014	ND	189	94.3	200	2.51	
DRO >C10-C28	<10.0	10.0	07/18/2014	ND	210	105	200	4.14	
Surrogate: 1-Chlorooctane	106 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	117 9	63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or 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.



RICE ENVIRONMENTAL CONSULTING & SAFETY

LAURA FLORES 419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 07/16/2014 Sampling Date: 07/15/2014

Reported: 07/24/2014 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. 10 @ SURFACE BENEATH TANK (H402160-02)

BTEX 8021B	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2014	ND	2.41	120	2.00	2.72	
Toluene*	<0.050	0.050	07/23/2014	ND	2.20	110	2.00	3.49	
Ethylbenzene*	<0.050	0.050	07/23/2014	ND	2.45	122	2.00	4.14	
Total Xylenes*	<0.150	0.150	07/23/2014	ND	7.86	131	6.00	4.44	
Total BTEX	<0.300	0.300	07/23/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/21/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/18/2014	ND	189	94.3	200	2.51	
			07/18/2014	ND	210	105	200	4.14	

Surrogate: 1-Chlorooctane 112 % 65.2-140
Surrogate: 1-Chlorooctadecane 121 % 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 whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



RICE ENVIRONMENTAL CONSULTING & SAFETY

LAURA FLORES 419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 07/16/2014 Sampling Date: 07/15/2014

Reported: 07/24/2014 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. 11 @ SURFACE BENEATH TANK (H402160-03)

BTEX 8021B	mg,	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2014	ND	2.41	120	2.00	2.72	
Toluene*	<0.050	0.050	07/23/2014	ND	2.20	110	2.00	3.49	
Ethylbenzene*	<0.050	0.050	07/23/2014	ND	2.45	122	2.00	4.14	
Total Xylenes*	<0.150	0.150	07/23/2014	ND	7.86	131	6.00	4.44	
Total BTEX	<0.300	0.300	07/23/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/21/2014	ND	400	100	400	3.92	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/18/2014	ND	189	94.3	200	2.51	
DRO >C10-C28	25.9	10.0	07/18/2014	ND	210	105	200	4.14	

Surrogate: 1-Chlorooctane 100 % 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 whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories \*=Accredited Analyte

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

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

ompany Name:	(505) 393-2326 FAX (505) 393-24		,	_					8	ILL	. 70					-	NAL	YSIS RE	QUEST			_
	11 1	,					P.0	). #:														
	Laura Flores , Kyle No.	- 20	491	4			Co	mpa	ny:								2			1 1		
ddress:	State: NM	7in	882	40			Att										0					
ty: Hobbs		Zip.	002	40				dres	ss:				1				-					
hone #:	Fax #:						Cit							Σ		т	Cations/Anions					
roject #:	Project Owner	:						ate:		7	ip:		es	2	~	0	ü					
roject Name:									4.	21	ip.		Chlorides	8015	BTEX	Texas TPH	atic	TDS				
roject Location	: lovers 31 Federal #: Kyle Schnaidt	5					1	one	#.				١ē	00	3	as	Ö	티		400		
ampler Name:	Kyle Schnaidt			_	MAT	RIX	Fa	x #:	SER	vI	SAMPLI	NG	15	TPH	ш	œ.						
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME		-			Complete					
10-4-0	past of beneath		Ш		1.				1	-			1	11	1	-	-		+ +			
1	point 9@ Surface bouth to	16	(		1		-		X	-	7-15-19		K	X	×	-			1			
2	Do: 4+10@ Sorface beauty tanks	6	1	-	X	-	+	-	X	+	5	9:05	X		12							
3	point 11 Osorhace beneath tanks	6	1	-	X	-	+	-	×	+	,	9:10	In	K	1							
		-	Н	+	+	-	+	+	H	+												
		1	Н	+	+		+	+		+												
		1	Н		+	Н	+	+	H	+												
		+	$\vdash$		+		+	+	$\forall$	1												
		1	Н	$\vdash$	+	$\Box$		1	H	1												
nalyses. All claims includ	Schnaidt Tipm: OC	R (	ecei	ved E	siness in whether By:	inem units	one loe	of use	o, or loss	of the	ofits incurred by above stated in	Phone F Fax Res REMAR	Result: sult: EKS:	conde	er@ri	ecs.	vd.cc	I Phone #: I Fax #: om; Iflore: knormar	@rice-	ecs.cor	m;	
	Time:							n	CHI	ECK (Initi	ED BY:	cursa	anic(	@rice	-ecs	.com					e-ecs.	con

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





October 16, 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 10/15/14 16:03.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY

HACK CONDER 419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 10/15/2014 Sampling Date: 10/15/2014

Reported: 10/16/2014 Sampling Type: Soil

Project Name: POWERS 31 FEDERAL #3 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: BURNETT OIL

#### Sample ID: NORTH WALL 2' EXCAVATION (H403163-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2014	ND	1.82	90.9	2.00	6.29	
Toluene*	<0.050	0.050	10/16/2014	ND	1.70	85.1	2.00	6.51	
Ethylbenzene*	<0.050	0.050	10/16/2014	ND	1.60	80.1	2.00	6.78	
Total Xylenes*	<0.150	0.150	10/16/2014	ND	4.74	79.0	6.00	7.31	
Total BTEX	<0.300	0.300	10/16/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/16/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/16/2014	ND	178	88.8	200	2.04	
DRO >C10-C28	<10.0	10.0	10/16/2014	ND	183	91.3	200	4.55	
Surrogate: 1-Chlorooctane	93.4	% 47.2-152	7						
Surrogate: 1-Chlorooctadecane	108 9	6 52.1-170	6						

Cardinal Laboratories \*=Accredited Analyte

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



RICE ENVIRONMENTAL CONSULTING & SAFETY

HACK CONDER 419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 10/15/2014 Sampling Date: 10/15/2014

Reported: 10/16/2014 Sampling Type: Soil

Project Name: POWERS 31 FEDERAL #3 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Kathy Perez

Project Location: **BURNETT OIL** 

#### Sample ID: SOUTH WALL 2' EXCAVATION (H403163-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2014	ND	1.82	90.9	2.00	6.29	
Toluene*	<0.050	0.050	10/16/2014	ND	1.70	85.1	2.00	6.51	
Ethylbenzene*	<0.050	0.050	10/16/2014	ND	1.60	80.1	2.00	6.78	
Total Xylenes*	<0.150	0.150	10/16/2014	ND	4.74	79.0	6.00	7.31	
Total BTEX	<0.300	0.300	10/16/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 61-154	!						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/16/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/16/2014	ND	178	88.8	200	2.04	
DRO >C10-C28	<10.0	10.0	10/16/2014	ND	183	91.3	200	4.55	
Surrogate: 1-Chlorooctane	97.6	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	104	% 52 1-17	6						

Surrogate: 1-Chlorooctadecane 104 % 52.1-176

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 competent 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.



RICE ENVIRONMENTAL CONSULTING & SAFETY

HACK CONDER 419 W. CAIN

HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 10/15/2014 Sampling Date: 10/15/2014

Reported: 10/16/2014 Sampling Type: Soil

Project Name: POWERS 31 FEDERAL #3 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: BURNETT OIL

#### Sample ID: WEST WALL 2' EXCAVATION (H403163-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2014	ND	1.82	90.9	2.00	6.29	
Toluene*	<0.050	0.050	10/16/2014	ND ND ND	1.70	85.1	2.00	6.51	
Ethylbenzene*	<0.050	0.050	10/16/2014		1.60	80.1	2.00	6.78 7.31	
Total Xylenes*	<0.150	0.150	10/16/2014		4.74	79.0	6.00		
Total BTEX	<0.300	0.300	10/16/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/16/2014 ND		416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/16/2014	ND	178	88.8	200	2.04	
DRO >C10-C28	<10.0	10.0	10/16/2014	ND	183	91.3	200	4.55	
Surrogate: 1-Chlorooctane	98.4	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	105 9	52.1-17	6						

Cardinal Laboratories \*=Accredited Analyte

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



RICE ENVIRONMENTAL CONSULTING & SAFETY

HACK CONDER 419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 10/15/2014 Sampling Date: 10/15/2014

Reported: 10/16/2014 Sampling Type: Soil

Project Name: POWERS 31 FEDERAL #3 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: BURNETT OIL

#### Sample ID: EAST WALL 2' EXCAVATION (H403163-04)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2014	ND	1.82	90.9	2.00	6.29	
Toluene*	< 0.050	0.050	10/16/2014	ND ND ND	1.70	85.1	2.00	6.51	
Ethylbenzene*	< 0.050	0.050	10/16/2014		1.60 4.74	80.1	2.00	6.78	
Total Xylenes*	<0.150	0.150	10/16/2014			79.0	6.00	7.31	
Total BTEX	<0.300	0.300	10/16/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/16/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/16/2014	ND	178	88.8	200	2.04	
DRO >C10-C28	<10.0	10.0	10/16/2014	ND	183	91.3	200	4.55	
Surrogate: 1-Chlorooctane	98.5 9	26 47.2-15	7						
Surrogate: 1-Chlorooctadecane	110 %	6 52.1-170	6						

Cardinal Laboratories \*=Accredited Analyte

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



RICE ENVIRONMENTAL CONSULTING & SAFETY

HACK CONDER 419 W. CAIN

HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 10/15/2014 Sampling Date: 10/15/2014

Reported: 10/16/2014 Sampling Type: Soil

Project Name: POWERS 31 FEDERAL #3 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: BURNETT OIL

#### Sample ID: 3 POINT COMPOSITE BOTTOM (H403163-05)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2014	ND	1.82	90.9 85.1	2.00	6.29	
Toluene*	<0.050	0.050	10/16/2014	ND	1.70		2.00	6.51	
Ethylbenzene*	<0.050	0.050	10/16/2014	ND ND	1.60	80.1	2.00	6.78 7.31	
Total Xylenes*	<0.150	0.150	10/16/2014		4.74	79.0	6.00		
Total BTEX	<0.300	0.300	10/16/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/16/2014 ND		416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/16/2014	ND	178	88.8	200	2.04	
DRO >C10-C28	<10.0	10.0	10/16/2014	ND	183	91.3	200	4.55	
Surrogate: 1-Chlorooctane	101 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	113 %	52.1-17	6						

Cardinal Laboratories \*=Accredited Analyte

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



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories \*=Accredited Analyte

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

Celeg D. Freene



#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	DECS		BI	LL TO	ANALYSIS REQUEST							
Project Manager:	N.F.	Kandyn	P.O. #:									
Address:	David Joseph David	,	Company:		]							
City:	State:	Zip:	Attn:									
Phone #:	Fax #:	•	Address:		]							
Project #:	Project Owner		City:									
Project Name:			State:	Zip:								
Project Location:	Powers 31 February #3		Phone #:									
Sampler Name:	Powers 31 Federal #3 Kyle Schnaidt		Fax #:									
FOR LAB USE ONLY	7 7.0	MATRIX	PRESERV.	SAMPLING	7							
Lab I.D.  H403163	Sample I.D.  North wall 2' excountion  South wall 2' excountion  West wall 2' excountion  East wall 2' excountion  South composite bottom	(GROUNDWATER WASTEWATER OIL SILUDGE	ACID/BASE:  ACID/BASE:  ACID/BASE:  ACID/BASE:  OTHER:	DATE TIME   0-15-14   1:00   1:05   1:40   1:15   1:20								
analyses. All claims including	Clircle One)	leemed waived unless made in writing a without invalidant, business interruptions ardinal, regardless of whether such claim Received By:  Received By:  Sample Conditions of the conditions of t	ition CHECP	within 30 days after completion of rofts incurred by client, its subsid	not the applicable solidaries, solidaries, servise.  Result:							

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



December 08, 2014

LAURA FLORES
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 12/05/14 14:50.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY

LAURA FLORES 419 W. CAIN

HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 12/05/2014 Sampling Date: 12/05/2014

Reported: 12/08/2014 Sampling Type: Soil

Project Name: POWERS 31 FEDERAL #3 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: BURNETT OIL

#### Sample ID: IMPORTED CALICHE (H403724-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Result Reporting Limit		Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/08/2014	ND	432	108	400	3.77	

#### Sample ID: IMPORTED TOP SOIL (H403724-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Result Reporting Limit		Analyzed Method Blank		% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/08/2014	ND	432	108	400	3.77	

Cardinal Laboratories \*=Accredited Analyte

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



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories \*=Accredited Analyte

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

## ARDINAL LABORATORIES

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

CS						BILL TO						ANALYSIS REQUEST							
ra Flores						P.	0. #:												
						Co	mpa	ny:							S				
State: NM	Zip	: 88	240			At	tn:								9				<
Fax #:						Ad	dres	s:							Ę.				
Project Owne	er:					City:					1	Σ		I	3/8				
mettoilco						St	ate:		Zip:		les	5	×	7	UC C				
						Ph	one	#:			l :E	000	E E	S	atic	SCI			
struct Balan	_	_				Fa	_				그	T	B	X	Ö	F			
	0.	Н		MAT	RIX	1	PRE	SERV	SAMP	ING	0	0		e	te				
Sample I.D.  perted Cyliche  perted top Soil	C) RAB OR (C)	T + # CONTAINERS	GROUNDWATE	NASIEWAIER SOIL	TIO	OTHER:	ACID/BASE:	OTHER:		TIME 2.05 2.10	7				Comp				
begingence and any other cause whatsoever shall be be for incidental or consequental damages, including plated to the performance of services hareunder by Date:  Date: Time:  Time:	desme	d waive at limital regard Ceiv	d unless ion, bus less of ed B	made in iness into whather s	writing a rruptions uch dair	ind receive, loss on is base	ned by fuse, or ed upon	Cardinal is ioss of any of	within 30 days at profits incurred by an above stated to	Phone Re Fax Resu REMARK  email: Iweinh jkamp	the applications, isse.  essult:  It: s: hconeime lain@	nder	@ric	eswo	Add'I i	ax#: n; lflores@rice-ec norman@rice-ecs	.com		
	State: NM  Fax #:  Project Owner  Oct + cilco  Vers 31 fcd #3  Shwa Balcan  Sample I.D.  Cardinal's liability and chent's exclusive remedy for helpityence and any officer cause whatsoever shall be like for incidental or consequental damages, policy lead to the performance of services hare-under by Date:  Time:  Time:	State: NM Zip Fax #: Project Owner:  Oct + Oil co Vers 31 fcd # 3 Shura Balcan  Sample I.D.  Cardinal's liability and cheen's exclusive remedy for any claimed gligence and any other cause whatsoever shall be dearned for for incidental or consequental damages, soluting without least to the performance of services hereunder by Cardinal's Time:  Time:	State: NM Zip: 88  Fax #:  Project Owner:  Oct of Oil Co  State: NM Zip: 88  Fax #:  Project Owner:  Oct of Oil Co  State: NM Zip: 88  Fax #:  Project Owner:  Oct of Oil Co  State: NM Zip: 88  Fax #:  Project Owner:  Oct of Oil Co  State: NM Zip: 88  Fax #:  Project Owner:  Oct of Oil Co  State: NM Zip: 88  Fax #:  Project Owner:  Oct of Oil Co  State: NM Zip: 88  Fax #:  Pac of Oil Co  State: NM Zip: 88  Fax #:  Pac of Oil Co  State: NM Zip: 88  Fax #:  Pac of Oil Co  State: NM Zip: 88  Fax #:  Pac of Oil Co  State: NM Zip: 88  Fax #:  Pac of Oil Co  State: NM Zip: 88  Fax #:  Pac of Oil Co  State: NM Zip: 88  Fax #:  Pac of Oil Co  State: NM Zip: 88  Fax #:  Pac of Oil Co  State: NM Zip: 88  Fax #:  Pac of Oil Co  State: NM Zip: 88  Fax #:  Pac of Oil Co  State: NM Zip: 88  Fax #:  Pac of Oil Co  State: NM Zip: 88  Fax #:  Pac of Oil Co  State: NM Zip: 88  Fax #:  Pac of Oil Co  State: NM Zip: 88  Fax #:  Pac of Oil Co  State: NM Zip: 88  Fax #:  Pac of Oil Co  State: NM Zip: 88  Fax #:  Pac of Oil Co  State: NM Zip: 88  State: NM Zip: 88	State: NM Zip: 88240  Fax #:  Project Owner:  Oct of colors  Sample I.D.  Sample I.D.  Sample I.D.  Cardina's siability and client's exclusive remedy for any claim arising wheth exployence and any officer cause whatsoever shall be deamed waived critical in consequental damages, soluting without limitation, but principles to services hereunder by Cardinal, regardless of pate:  Pate: S-IV Received B  Time:  Time:	State: NM Zip: 88240  Fax #:  Project Owner:  Oct + Oil Co  State: NM Zip: 88240  Fax #:  Project Owner:  Oct + Oil Co  State: 31 fcd #f3  Shure Balcan  MAT  Sample I.D.  Cardinafs liability and clear's exclusive remedy for any claim arising whether based register and any other cause whatsoever shall be dearned waited unless made in the for incidental or consequental damages, spickuling without limitation, business sink plated to the performance of services hare under by Cardinal, legistrates of synkhilar states of the performance of the consequental damages. Received By:  Time:  Pate: S-IV Received By:  Time:  Time:	State: NIM Zip: 88240  Fax #:  Project Owner:  Oct + Oil Co  Set 3 1 fcd # 3  Shure Balley  MATRIX  Sample I.D.  Cardina's liability and cheen's exclusive remedy for any claim arising whether based in cortex applicance and any other cause whatsoever shall be deemed waived unless made in writing a ble for incidental or consequential damages, sycluding without limitation, business aftertruption plates to the performance of services harecurder by Cardinal, regardless objetion the services have under the services of the cortex claim arising whether based in cortex applicance and any other cause whatsoever shall be deemed waived unless made in writing a ble for incidental or consequential damages, sycluding without limitation, business aftertruption related to the performance of services have under the Cardinal, regardless objetion the cortex claim.  Pate: 5-14 Received By:  Time:  Time:  Sample Conditional Conditions of the cortex	State: NM Zip: 88240  State: NM Zip: 88240  Fax #:  Project Owner:  Ci  St.  State: NM Zip: 88240  At  Fax #:  Project Owner:  Ci  St.  State: NM Zip: 88240  At  At  At  At  At  At  At  At  At  A	State: NM Zip: 88240 Attn:  Fax #: Address  Project Owner: City:  Oct + Oil Co  State:  Project Owner: State:  Phone  Shun Balcan  MATRIX  PRE  MATRIX  PRE  Sample I.D.  Cardina's fability and clean's exclusive remedy for any claim arising whether based in contract or toot, will adjust to the performance of annexes hareuseful sort to the contract or took and the performance of annexes hareuseful recommended by the for incidental or consequential damages, sockating without instation, business inferruptions, loss of see, or laided to the performance of annexes hareuseful ances hareuseful and recommended by the for incidental or consequential damages, sockating without instation, business inferruptions, loss of see, or laided to the performance of annexes hareuseful ances hareuseful and seed and seed to the performance of annexes hareuseful and the performance of annexes hareuseful annexes and the performance of annexes hareuseful annexes hareuseful annexes and the performance of annexes hareuseful annexes and the performance of annexes hareuseful annexes and the performance of annexes hareuseful annexes annexes hareuseful annexes annexes and the performance of annexes and the performance o	State: NM Zip: 88240 Attn:  Fax #: Address:  Project Owner: City:  State: Phone #:  Shwa Balacy Fax #:  Sample I.D.  Cardinat's liability and chent's exclusive remody for any claim arising whether based in contract or toot, yet all be for inoderfall or consequential damages, solubiling without limitation, business referringtions, loss of lose, or loss of plated to the performance of services hereuroder by Cardinat, regulated so the performance of services hereuroder by Cardinat, regulated so the performance of services hereuroder by Cardinat, regulated so the performance of services hereuroder by Cardinating without limitation, business referringtions, loss of lose, or loss of plated to the performance of services hereuroder by Cardinating without limitation, business referringtions, loss of lose, or loss of plated to the performance of services hereuroder by Cardinating without limitation, business referringtions, loss of lose, or loss of lose, or loss of lose, or loss of lose, or loss of lose or lose of the loss of lose or lose or lose of lose or lose of lose or lose of lose or lose of lose or lose or lose of lose or lose	State: NM Zip: 88240 Attn:  Fax #: Address:  Project Owner: City:  State: Zip:  Phone #:  Fax #:  Phone #:  Shwa Balcan  MATRIX  PRESERV. SAMPI  MATRI	State: NM Zip: 88240 Attn:  Fax #: Address:  Project Owner: City:  State: Zip:  Phone #:  Fax #:  MATRIX PRESERV SAMPLING  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Address:  Project Owner: City:  State: Zip:  Phone #:  Fax #:  MATRIX PRESERV SAMPLING  MATRIX PRESERV SAMPLING  WALL DO DO DE	State: NM Zip: 88240 Attn:  Fax #: Address:  Project Owner: City:  State: Zip: Phone #:  Fax #: Fax #:  Phone #:  Shyran Balacy,  MATRIX PRESERV. SAMPLING  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Cardina's tability and clear's avolutive series by for any claim authory whether based in conteact or tool, pkill the least of the amount paid by the clear for the engigeness and any other cares whatchever that to be awared waived or intext made in reflight and accepted by Cardina's tability and clear's avolutive series of the the engigeness and any other cares whatchever that to be awared waived or intext made in reflight and accepted by Cardina's took any after completion of the application of	State: NM Zip: 88240 Attn:  Fax #: Address:  Project Owner: City:  State: Zip: Phone #: Fax #: Fax #:  Phone #: Fax #:  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Address: Zip: Phone #: Fax #:  MATRIX  PRESERV. SAMPLING  MATRIX  PRESERV. SAMPLING  DATE TIME  Cardinar's faibility and clearly, exclusive nervely for any claim axing whether based in contact or lot. pfill Develod to the amount paid by the clear for the employence and any other cause whitchover that to be deemed waited or loss, made in writing and exceeds by Cardinal within 20 days after competition of the application to the	State: NM Zip: 88240 Attn:  Fax #: Address:  Project Owner: City:  State: Zip: Phone #:  Fax #:  Phone #:  Fax #:  Sample I.D.  Sample	State: NM Zip: 88240 Attr:  Fax #: Address:  Project Owner: City:  State: Zip: Phone #: Shar Badan Badan Fax #:  Address:  Phone #: Shar Badan B	State: NM Zip: 88240 Attn:  Fax #: Address:  Project Owner: City:  State: Zip: Phone #:  Phone #:  Shun Baken  Baken  Baken  Sample I.D.  III. Sample I.D.  Sample I.D.  III. S	Sample I.D.  Sampl	State: NM Zip: 88240  Attm:  Fax #:  Project Owner: City:  Sample I.D.  Sample I.D.  Address: Project Owner: City: Sample I.D.  Address: Project Owner: City: Sample I.D.  Address: Project Owner: State: Zip: Phone #: Fax #: Phone #: Fax #:  MATRX PRESERV. SAMPLING  Address: Phone #: Fax #:  Part of Code Sample I.D.  Address: Samp	State: NM Zip: 88240 Attn:  Fax #: Address:  Project Owner: City:  State: Zip: Phone #:  Share Dates  Sample I.D. By John Matrix  PRESERV SAMPLING  PRESERV SAMPLING  Sample I.D. By John Matrix  PRESERV SAMPLING  PRESERV SAMPLING  Address is the phone #:  Sample I.D. By John Matrix  PRESERV SAMPLING  PRESERV SAMPLING  Date: Time:  Sample I.D. By John Matrix  PRESERV SAMPLING  PRESERV SAMPLING  Date: Time: Sample

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

# Appendix D Photo Documentation

## **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 west

5/28/14



Initial release area, facing south

5/28/14



Initial release area, facing north

5/28/14



Initial release area, facing west

5/28/14



Sampling release area, facing south

5/29/14



Initial release area, facing northwest

5/28/14



Scraping battery pad, facing southeast

6/9/14



Removing tanks, facing southwest

6/10/14



Exporting soil, facing west

6/11/14



Scraping pad area to 6 inches bgs, facing northwest 6/10/14



Scraping pasture area to 6 inches bgs, facing west 6/12/14



6 inch scrape in pasture completed, facing northwest 6/12/14



Beginning 2 ft excavation, facing southwest 9/11/14



6 inch scrape on pad completed with berms installed, facing south 7/17/14



New facility installed, facing north

9/11/14



2 ft excavation completed, facing northwest



6 inch scrape south of facility completed, facing northeast 10/10/14



Beginning 6 inch scrape on south side of new facility, 10/9/14 facing north



Importing caliche, facing southeast

10/13/14



Backfilling 6 inch scrape on south side of facility, facing east 10/13/14



Importing top soil, facing south



northeast 10/14/14



Backfilling pasture area, facing northwest

11/3/14



Pasture area scrapes completed, facing southwest 11/5/14



Site backfilled, facing west

11/14/14



Pasture area scrapes completed, facing southeast 11/5/14



Adding soil amendments, facing northwest

11/14/14



Adding soil amendments completed, facing northwest 11/14/14



Seeding site, facing southeast

11/14/14



Tilling in soil amendments, facing north

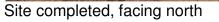
11/14/14



Tilling in the seed, facing southeast

11/14/14





11/14/14



Site completed, facing southeast

11/14/14



Site completed, facing west

11/14/14



Site completed, facing northwest

11/14/14

# Appendix E

## 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

1220 S. St. Francis Dr., Santa Fe, NM 87505

#### State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

## **Release Notification and Corrective Action**

Release Notification and Corrective Action																
						<b>OPERAT</b>	OR	al Report	$\boxtimes$	Final Rep	ort					
Name of Co	mpany I	Burnett Oil C	Co.			Contact Leslie Garvis - Regulatory Coordinator										
				rth, TX 76102			lo. 817-583-873	30								
Facility Nan	ne Power	s 31 Federa	1 #3			Facility Typ	e SWD									
Surface Own	nor DIM			Mineral Ov	vner	r API No. 30-015-31806										
Sui lace Ow	Hel DLIVI			iviniciai O	viici	M1110. 30 013 31000										
						N OF REI							_			
Unit Letter	Section	Township	Range			rth/South Line Feet from the East/West Line County										
Н	31	17S	31E	1980	<u> </u>	FNL	660	F	EL	Eddy			_			
				Latitude_32.79	92864	Longitude	-103.902551	6								
NATURE OF RELEASE																
Type of Rele	ase Produ	ced water and	d oil			7,577	Release 1,400 bl vater/60 bbls oil			Recovered 1						
Source of Re	lease SWI	) tanks				Date and H 5/24/14	our of Occurrence 3:00 am	e	Date and 3:00 am	Hour of Dis	covery	5/24/14				
Was Immedia	ate Notice (		l v.s. $\nabla$	No Not Rec	anirad	If YES, To		OCD (voi	cemail)							
			] ies 🔼	No   Not Kee	quireu	The second displaying	The state of the s		ceman)	- Design			_			
By Whom? Was a Water							lour 5/28/14 3:2 dume Impacting t		rcourse.							
was a water	course read		Yes 🗵	No .		1 125,				P						
If a Watercou	ırse was Im	pacted, Desci	ribe Fully.	k.												
causing a rele	ease of 1,46	0 barrels of p	roduced w	n Taken.* Lightnater and oil. The s	upply	line was shut	d water tank at thooff at 3:30 am. F	ire trucks	and burnt of arrived of	on the scene	and ext	inguished t	the			
Describe Ara	n trucks we	re called to th	Action Tal	recovered 1,126 bb cen.*A total of 27,	196 sa	ft of bermed l	nattery lease nad	caliche	road and t	pasture land	were a	ffected by t	he			
release REC	'S personne	l were on site	beginning	on May 28th, 2014	4 to ass	sess the releas	e. A total of 8 pt	s within t	the release	e area were s	ample	at the				
surface and v	vith depth.	The samples	were taker	to a commercial 1	aborate	tory for analysis. A CAP was submitted to NMOCD and BLM on June 11 <sup>th</sup> , 2014, at in order to allow further site remediation, the battery had to be moved to a										
and NMOCD	approved	the CAP on J	une 24 <sup>th</sup> , 2	014. The CAP state permed battery loca	ted that	t in order to al	low further site re	emediation	on, the bat	tery had to to	contar	ed to a				
gravel and th	e two liners	that encomp	assed the t	ank battery. The g	ravel v	would be taken	to a NMOCD at	pproved f	facility for	disposal. T	he batt	ery area				
would be re-	lined with a	40-mil liner.	the gravel	would be replaced	with o	clean, importe	d gravel and new	tanks wo	ould be in	stalled to re-	comme	ence disposa	al			
activities Be	erms would	be installed a	around the	battery to provide	a conta	th clean, imported gravel and new tanks would be installed to re-commence disposal ntainment area for the site. Corrective actions began at the site on June 9 <sup>th</sup> , 2014. Inches. The area around Point 6 was excavated to a depth of 2 ft bgs. Once the 2 ft										
The release a	rea, except	the area arou	nd Point 6	t pt bottom compos	n 6 incl	hes. The area	around Point 6 W	vas excav	ated to a corv for an	alysis On I	ulv 14	th 2014.	ι			
NMOCD wa	as completes notified the	ed, wan samp	ation of the	new battery had c	omme	nced. NMOC	D responded by a	asking if	samples h	ad been take	n from	beneath th	ie			
removed batt	ery prior to	the installati	ion of the r	new battery over th	is area	. On July 15 <sup>th</sup>	2014, three soil	samples	were take	en from the b	base of	the prior				
lined battery	facility and	sent to a con	nmercial la	boratory for analy	sis. Or	n October 20 <sup>th</sup>	, 2014, a request	was sent	to NMOC	CD and BLM	to bac	kfill the sit	e.			
NMOCD and	d BLM app	roved the site	to be back	filled on October 2 nported to the site	21st, 20	114. All excav	rated soil, for a to	A sampl	b cubic ya	nnorted soil	was ta	ken to a				
commercial 1	laboratory f	or analysis	The import	ed caliche returned	a chlo	oride reading	of 112 mg/kg, and	d the imp	orted top	soil returned	a chlo	ride reading	g			
of non-detec	t. The scrap	e and excava	ation were	backfilled with the	clean	soil and conto	oured to the surror	unding lo	cation. C	n November	: 14 <sup>th</sup> , 2	2014, soil				
amendments	were added	to the pastur	re areas and	then these areas y	were se	eeded with LP	C mix.						2			
I hereby certi	fy that the in	formation giv	en above is	true and complete	to the b	est of my know I perform corre	ctive actions for re	eleases w	hich may e	ndanger pub	lic heal	th or the	'			
environment	The accent	ance of a C-14	11 report by	the NMOCD mark	ed as "	Final Report"	loes not relieve the	e operator	of liabilit	y should then	r operat	ions have				
failed to adea	mately inves	tigate and rem	nediate cont	amination that pose	a threa	at to ground wa	iter, surface water,	, human h	ealth or th	e environmer	it. In a	ddition,				
NMOCD acc	eptance of a	C-141 report	does not re	lieve the operator of	respon	isibility for co	OIL CON	SFRV	ATION	DIVISIO	N	regulations				
Signature:	Justi	i C	ari	15			OIL CON	BLICY	ATION	DIVIDIO	511					
Printed Nam	e: LES	1e 61	ARVIS	S		Approved by	Environmental S	Specialist	:							
Title:	EGUG	HORY	COORI	DINATOR		Approval Da	te:	I	Expiration	Date:						
E-mail Addr	ess: 199	PRVISC	July bull	rettoil.com	n	Conditions of Approval:										
Date:	1/38	115	Phone	:817-583-8	730	3							_			