

CONSULTING & SAFETY

PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

June 11th, 2014

#### Mike Bratcher

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

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

Mr. Bratcher:

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

#### **Background and Previous Work**

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

On May 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.

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

#### **Corrective Action Plan**

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

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

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

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

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

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

Sincerely,

Lara Weinheimer Project Scientist

JC.W.

RECS

(575) 441-0431

#### Attachments:

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

## Figures

**Initial Sampling Data** Point 1 Legend SAMPLE POINT **DEADMAN** 0 13.4 **ELECTRIC POLE** FLARE TOWER Point 2 LIGHT POLE PID GRO DRO B VALVE 27500 < 0.05 SS 79.1 WELLHEAD 0 <10 < 0.05 < 0.05 < 0.05 PIPE END TANK TOP Point 3 - BURIED ELECTRIC CI-PID GRO DRO X **BTEX** 42.8 71500 0.06 CROSSOVER < 0.15 < 0.3 BERM < 0.05 < 0.05 <0.15 < 0.3 15.4 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 206.4 0.07 0 Point 5 PID GRO DRO BTEX 770 SQ FT 0.2 Point 6 PID GRO DRO BTEX 111.7 551.2 15.6 0.414 30.2 Point 7 BTEX PID GRO DRO <0.05 <0.05 <0.05 4.9 0.1 Point 8 T PID GRO DRO В BTEX CI-18800 < 0.05 < 0.05 < 0.05 < 0.15 < 0.3 4.6 < 0.3 0.4 < 0.05 **DGW: None** Landowner: BLM Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community **BURNETT** Figure 1 POWERS 31 FEDERAL #3 50 100 **ULH SECTION 31** RICE ENVIRONMENTAL GPS date: 5/28/14 TG T-17-S R-31-E CONSULTING & SAFETY Drawing date: 6/9/14 EDDY COUNTY, NM Drafted by: T. Grieco/L. Weinheimer

# 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

#### 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.

1220 S. St. Fran	cis Dr., Sant	a re, NM 8/503	, 	Sa	ınta F	e, NM 875	05			
			Relo	ease Notific	catio	n and Co	rrective A	ction		
						OPERA'	ГOR		ial Report	Final Report
		Burnett Oil C				Contact Sh	awna Matthews	<b>.</b>	*	
		ake Rd, Loc		VM 88255		Telephone I	No. (575) 219-(	6370		
Facility Nar	ne Power	rs 31 Federa	l #3			Facility Typ	e SWD			
Surface Ow	ner BLM	ſ	7	Mineral C	)wner			API N	o. 30-015-3	1806
				LACA	TIO	N OF RE	FASE	<u> </u>		
Unit Letter	Section	Township	Range	Feet from the		h/South Line	Feet from the	East/West Line	County	
Н	31	17S	31E	1980		FNL	660	FEL	Eddy	
	1 3.	1 270	J		1064			TEL	Eddy	
						_	-103.902551	<u> </u>		
				NA'I	'URE	OF REL				
Type of Rele	ase Produ	ced water and	oil				Release 1,400 bl vater/60 bbls oil	ols Volume	Recovered 1	1,126 bbs of fluid
Source of Re	lease SWI	) tanks				Date and I	lour of Occurrenc		Hour of Disc	covery 5/24/14
Was Immedia	ate Notice (	Given?				5/24/14 3 If YES, To		3:00 am		
			Yes 🗵	No Not R	equired		- BLM and NMC	· · · · · · · · · · · · · · · · · · ·		
By Whom?							Iour 5/28/14 3:			
Was a Water	course Read		Yes 🗵	No		If YES, Vo	olume Impacting t	he Watercourse.		
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	*						
		. ,	,						-	
								•		
		em and Reme								
										water and oil. The
supply line w bbls of fluid.	as shut off	at 3:30 am. F	ire trucks	arrived on the sce	ene and	extinguished	he fire. Vacuum	trucks were called	d to the site ar	nd recovered 1,226
oois or maid.										
Describe Are	a Affected	and Cleanup	Action Tal	ken.*						
NMOCD and			d battery,	lease pad, caliche	road a	nd pasture lan	i were affected by	the release. The	release will b	e remediated to
Timo CD und	DEIVI GRAIN	Julus.								
				is true and comp						
regulations a	or the envi	are required t	o report ar	nd/or file certain r ce of a C-141 repo	elease	notifications a	nd perform correct	tive actions for re	leases which	may endanger
should their o	perations h	ave failed to	acceptant adequately	investigate and r	emedia	ne NMOCD III ite contaminati	on that pose a thre	epore does not re	neve uie oper er surface wa	ator of hability ter, human health
or the environ	nment. In a	ddition, NMC	CD accer	tance of a C-141	report	does not reliev	e the operator of i	responsibility for	compliance wa	ith any other
		ws and/or regu			-				<u>, , , , , , , , , , , , , , , , , , , </u>	•
	$\neg$	41.	0				OIL CONS	<u>SERVATION</u>	DIVISIO	<u>N</u>
Signature	MIII	an, With	H hou	N						
DIGHULUICA	JI UMI	W. 1, W.	1/L · 9/4/2			A 1 l	Ei	!-1!		
Printed Name	: Shawna	Matthews				Approved by	Environmental S <sub>1</sub>	pecialist:		
Title: Senior	Production	Technician				Approval Da	e:	Expiration	Date:	
E-mail Addre	ess: smatth	ews@burnetto	nil com			Conditions of	Annroval			
	JAMALUN	o C our notic				Conditions 0.	zippiovai.		Attached	

Phone: (575) 219-6370

Date:

<sup>\*</sup> Attach Additional Sheets If Necessary

## 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, 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	<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

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Whe Sough

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 @ 6" (H401666-02)

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		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

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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	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	99.2	% 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	114 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	107 9	63.6-15	4						

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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	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*	0.148	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 9	% 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	<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 9	% 65.2-14	70						

Surrogate: 1-Chlorooctadecane 745 % 63.6-154

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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. 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 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	111 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	105	% 63 6-15	4						

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

Cardinal Laboratories \*=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY HACK CONDER

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 05/30/2014 Sampling Date: 05/29/2014

Reported: 06/06/2014 Sampling Type: Soil

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

Project Location: BURNETT OIL

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

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, SM4500Cl-B	mg/kg		Analyze	ed 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	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/05/2014	ND	174	87.2	200	3.21	
DRO >C10-C28	489	10.0	06/05/2014	ND	178	89.0	200	7.42	
Surrogate: 1-Chlorooctane	121	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	111 9	% 63.6-15	4						

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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	Analyze	d 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	% 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	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	
DRO >C10-C28	71500	200	06/05/2014	ND	178	89.0	200	7.42	

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

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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. 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 9	% 65.2-14	0						
S 1 CH 1	112 (	(2.6.15							

112 % 63.6-154 Surrogate: 1-Chlorooctadecane

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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 9	% 89.5-12	6						
Chloride, SM4500Cl-B	hloride, 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 9	63.6-15	4						

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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)

BTEX 8021B	mg/	'L	Analyze	d 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 9	% 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	411	200	06/05/2014	ND	193	96.7	200	4.09	

Surrogate: 1-Chlorooctane 134 % 65.2-140
Surrogate: 1-Chlorooctadecane 1010 % 63.6-154

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Fax To: (575) 397-1471

Received: 05/30/2014 Sampling Date: 05/29/2014

Reported: 06/06/2014 Sampling Type: Soil

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

Project Location: BURNETT OIL

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

BTEX 8021B	mg/L		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2014	ND	1.83	91.6	2.00	3.81	
Toluene*	< 0.050	0.050	06/05/2014	ND	1.96	97.9	2.00	3.79	
Ethylbenzene*	0.059	0.050	06/05/2014	ND	1.76	88.2	2.00	3.63	
Total Xylenes*	<0.150	0.150	06/05/2014	ND	5.51	91.8	6.00	3.55	
Total BTEX	<0.300	0.300	06/05/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 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 9	% 63.6-15	4						

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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						

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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	% 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	532	200	06/05/2014	ND	193	96.7	200	4.09	
DRO >C10-C28	38900	200	06/05/2014	ND	202	101	200	7.65	
Surrogate: 1-Chlorooctane	137	% 65.2-14	0						

Surrogate: 1-Chlorooctadecane 1020 % 63.6-154

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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 %	63.6-15	4						

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Fax To: (575) 397-1471

Received: 05/30/2014 Sampling Date: 05/29/2014

Reported: 06/06/2014 Sampling Type: Soil

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

Project Location: BURNETT OIL

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

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	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 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	108 9	63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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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. 6 @ SURFACE (H401666-16)

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

1030 % 63.6-154 Surrogate: 1-Chlorooctadecane

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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						

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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/	mg/L		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2014	ND	1.83	91.6	2.00	3.81	
Toluene*	<0.050	0.050	06/05/2014	ND	1.96	97.9	2.00	3.79	
Ethylbenzene*	0.120	0.050	06/05/2014	ND	1.76	88.2	2.00	3.63	
Total Xylenes*	0.294	0.150	06/05/2014	ND	5.51	91.8	6.00	3.55	
Total BTEX	0.414	0.300	06/05/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 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					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						

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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		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2014	ND	1.83	91.6	2.00	3.81	
Toluene*	<0.050	0.050	06/05/2014	ND	1.96	97.9	2.00	3.79	
Ethylbenzene*	0.254	0.050	06/05/2014	ND	1.76	88.2	2.00	3.63	
Total Xylenes*	0.445	0.150	06/05/2014	ND	5.51	91.8	6.00	3.55	
Total BTEX	0.700	0.300	06/05/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 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					
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						

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Fax To: (575) 397-1471

Received: 05/30/2014 Sampling Date: 05/29/2014

Reported: 06/06/2014 Sampling Type: Soil

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

Project Location: BURNETT OIL

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

BTEX 8021B	mg/L		Analyze	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, 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	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 5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	104	% 63 6-15	1						

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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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						

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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/	g/kg Analyzed By: MS/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	06/05/2014	ND	1.92	95.8	2.00	0.523	
Toluene*	<0.500	0.500	06/05/2014	ND	2.04	102	2.00	0.675	
Ethylbenzene*	<0.500	0.500	06/05/2014	ND	1.83	91.6	2.00	0.338	
Total Xylenes*	<1.50	1.50	06/05/2014	ND	5.80	96.7	6.00	0.173	
Total BTEX	<3.00	3.00	06/05/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 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	
DRO >C10-C28	18800	100	06/05/2014	ND	148	73.9	200	11.8	
Surrogate: 1-Chlorooctane	89.5	% 65.2-14	0						

Surrogate: 1-Chlorooctadecane 772 % 63.6-154

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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 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	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						

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Mike Snyder, Organic Supervisor

Cardinal Laboratories

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Fax To: (575) 397-1471

Received: 05/30/2014 Sampling Date: 05/29/2014

Reported: 06/06/2014 Sampling Type: Soil

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

Project Location: BURNETT OIL

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

BTEX 8021B	mg/	kg	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

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Mile Sough



#### **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

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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 ,								Si		BIL	LL 70	a real of					ANAI	YSIS	REQ	UEST		
Project Manage	r: Laura Flores							P	.O. #											T		T	
Address:								C	omp	any	:			1				တ					
City: Hobbs	State: NM	Zi	p: 8	824	0			A	ttn:					1				on					
Phone #:	Fax #:							A	ddre	ss:								Ę.					
Project #:	Project Own	er:						c	ity:						Σ		-	3/A					
Project Name:	Burnett oil							s	tate:			Zip:		Chlorides	2	~	TPH	Cations/Anions					
Project Location	n: Powers 31 Federal #	3						P	hone	#:				윤	801	BTEX	-	ij.	TDS				
Sampler Name:								F	ax #:					을		3	Texas	Ö	F				
FOR LAB USE ONLY		T	Τ	F		MATE	XIX		PR	ESE	RV.	SAMPLI	NG	ठ	TPH	-	[ê]	te					
Lab I.D. H4 <i>0 IIglolo</i>	Sample I.D.	(G)RAB OR (C)OMF	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SCOOSE OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME		T			Complete					
1	Pt. 1 @ Surface	G	1			1						5-29-14	12:00			/						T	
2	At. 106"	G	i			1						5-29-14		/	-								
3	Pt.1@1'	9				1						5-29-14	12:10	/	/	/							
4	Pt. 2 @ Surface	19	1			1						5-29-14	12:15	-	/	/							
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						5-29-14		_	/	/							
8	Pt.3 @ 6"	16	1			1					k	5-29-14	12:35	-	/	/							
9	P4.3 @ 11	6	1			1						5-24-14		/	/	/							
10	44.4 © Surface  and Damages. Cardinal's liability and client's exclusive remady for	6	L			1						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	ved By:	uson				@rice-ecs.com;
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	-10,4°	Sample Condition Cool Intact Yes Yes No No	CHECKED BY:	@rice-ec	cs.com	n; sedwards@r	@rice-ecs.com; rice-ecs.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

ompany Name:	(505) 393-2326 FAX (505) 393-2						1	- 2	BI	LL 70	a the					NAL	YSIS R	REQUEST	_		
roject Manager:							P.	0. #:													
ddress:	Eddid 1 10100						c	ompa	ny:				: 5			LS I					
ity: Hobbs	State: NM	Zip	: 88:	240			A	tn:								.0					
hone #:	Fax #:						A	ddres	ss:							A					
roject#:	Project Own	er:					C	ity:				S	Σ		I	ls/					
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ampler Name:	Josh Balcom						F	ax #:				글	Ī	B	×		-	1 1			
FOR LAB USE ONLY	Service Service	Τ.	П	_	MAT	RIX	-	PRE	SERV	SAMPLI	NG	O	TPH		9	ete		1 1			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	ACID/BASE:	ICE / COOL	DATE	TIME					Complete					
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16	Pf. 4 @ Surface	6	11	Н	1		1	+	-	5-29-14	1:15	-	1	1	-			+	_		
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18	A.6 @ 1'	9	11	1	1	$\vdash$	-	+	-	5-24-14	1:30	1	1	1							
19	\$1.7 @ Surface	9	1		1	-	-	+	-	0-29-19	1:35		1	1	-						
70	Pt.7 & (e" Damages, Cardinal's liability and client's exclusive remedy	or any da	im aris	ing whet	her base	d in co	ntract or	tort, sha	I be limite	d to the amount pa	d by the client for	or the	_								
nalyses. All claims includin	those for negligence and any other cause whatsoever shall	De Geens	og wer	ation bu	elease in	dam ed	ione In	s of use	or loss of	profits incurred by	client, its subsidi	laries,	able								
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affiliates or successors arising out of or related to the performa	nce of services hereunder by Ca	rdinal, regardless of whether such claim is based	upon any or the above stated re-	Dhana Dagulte	□ Vac	☑ No	Add'l Phone #:	
Relinquished By:	Date: 5-21-14	Received By:		Phone Result: Fax Result:			Add'I Fax #:	
Josh Balcom	Time: 15	Refered By:	nson	REMARKS:			. 10	O-i
Relinquished By:	Date:	Received By:		email: hcc	onder@r	ricesw	d.com; iffores	@rice-ecs.com;
	Time:	V		I lweinheime	er@rice	-ecs.c	om; knorman	@rice-ecs.com;
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Delivered By: (Circle One)		Sample Condition	CHECKED BY:	cursanic@	rice-ecs	s.com		
Sampler - UPS - Bus - Other:		Cool Intact  Yes Yes  No No	and	Environme	ental Te	ch:	belcom	@rice-ecs.com

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



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

#### RDINAL 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								T/		470	5000				1	NAL	YSIS F	REQUEST		
Project Manager							P	.0.#	t:									-			
Address:	Ladia i loics						c	omp	any					-3			S				
City: Hobbs	State: NM	Zip	: 88	240			A	ttn:									Cations/Anions				
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Project #:	Project Owner	r:					- 0	ity:					S	Σ		문	JS/		1 1		
Project Name:	Burnett oil						S	tate	5		Zip:		용	15	×	片	Ö	S			
Project Location	: Powers 31 Federal #3						-	hon					9	8015	BTEX	as	Sat	TDS			
Sampler Name:	Josh Balcom	_		_	MAT	RIX	_	ax#	: RESE	RV	SAMPLIN	NG.	Chlorides	TPH	В	Texas TPH					
Lab I.D.	Sample I.D.	S(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	ACID/BASE:	ICE / COOL		DATE	TIME					Complete				
21	P+7@1'	GG	11		1			+			5-29-14		1		-	-		-	+	++	_
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analyses, All claims including those for negligence and any other cause whatsoever shall be deemed waved uness made in writing and recurred by User, it is substitution, service. In no event shall Cardinal be liable for incidental or consequental damages, including without liable, business interruptions, loss of use, or loss of profits incidental or consequental damages, including without liable, business interruptions, loss of use, or loss of profits incidental or consequental damages, including without liable, business interruptions, loss of use, or loss of profits incidental or consequental damages, including without liable, business interruptions, loss of use, or loss of profits incidental or consequental damages, including without liable interruptions, loss of use, or loss of profits incidented by claims or use of use, or loss of profits incidented by claims or use of use, or loss of profits incidented by claims or use of use, or loss of profits incidented by claims or use of use, or loss of profits incidented by claims or use of use, or loss of profits incidented by claims or use of use, or loss of profits incidented by claims or use of use, or loss of profits incidented by claims or use of use, or loss of profits incidented by claims or use of use, or loss of profits incidented by claims or use of use, or loss of profits incidented by claims or use of use, or loss of profits incidented by claims or use of use, or loss of profits incidented by claims or use of use, or loss of profits incidented by claims or use of use, or loss of profits incidented by claims or use of use, or loss of profits incidented by claims or use of use, or loss of profits incidented by claims or use of use, or loss of

affiliates or successors arising out of or related to the performant Relinquished By:	Date: Rec	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:	Time2:15	erved By:	nson	email: hcc	onder@	ricesw	vd.com; lflores@ com; knorman@ m; sedwards@ri	rice-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
- Carrier Cr		□ No □ No	//				-1001-1	

<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	2						
Surrogate: Toluene-d8	106	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	111 9	% 65.7-14	1						
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	06/10/2014	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						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

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

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

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

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine

Lust!!

## 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:	mpany Name: RECS sject Manager: Laura Flores								li di	1.5	E	IL	470	. Autor					ANAL	YSIS	REQUES	T		
	1100								P.C	). #:														
Address:									Co	mpa	ny:								2					
City: Hobbs	*	State: NM	Zip	: 88	240				Att	n:									Cations/Anions		1 1			
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Project #:		Project Owner	r:						Cit	y:					0	Σ		I	18/		-1-1			
Project Name:	Burnett oil	co.							Sta	te:		2	Zip:		g	15	×	유	o	m	- 1 1			
	: Powers 31 ;	fed#3							Ph	one	#:				Chlorides	<b>TPH 8015 M</b>	BTEX	Texas TPH	ati	TDS				
Sampler Name:	JOSHUA BI	ALCOM								x #:		_		-	글	I	m	×		-				1
FOR LAB USE ONLY					-	MA	ATRI	X	H	PRE	SER	W.	SAMPL	ING	10	0		He	ete					
Lab I.D. H401746	Sample I	.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	)L	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME					Complete					
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Relinquished B	ing out of or related to the performance	Date GISENICES hereunder by	Cardina	el, rega	ved l	f wheth	er such	claim	10	M	A)	O C	Acove stated in	Phone Ro Fax Resu REMARK	esult:	□ Ye		No No	Add'l Add'l	Phone #: Fax #:				
Refinquished By:  Date: Received By:  Time:					1						lweinh	neime	er@r	ice-e	ecs.c	om; l	cnorm	res@rice	e-ecs.co	om;				
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Complex IIDS	noler - UPS - Bus - Other:					es 7	act Ye	s		1	nit	ials)	Enviro					bel			@ri	ce-ecs	s.cor	

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



## Appendix C 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