

December 22nd, 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 24th, 2014, lightning struck a produced water tank at the SWD and both tanks at the site burned down. The supply line to the site was shut off, and fire trucks arrived at the scene to extinguish the fire. A total of 1,460 barrels of produced water and oil were released. Vacuum trucks were called to the site and recovered a total of 1,126 barrels of fluid. The release affected 27,196 square feet of bermed battery, lease pad, caliche road and pasture land. NMOCD and BLM were notified of the release on May 28th, 2014, and an initial C-141 was sent to both agencies on June 4th, 2014 for approval (Appendix A).

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

A Corrective Action Plan (CAP) was submitted to NMOCD and BLM on June 11th, 2014, and NMOCD approved the CAP on June 24th, 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 9th, 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 14th, 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 15th, 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 20th, 2014, a request was sent to NMOCD and BLM to backfill the site. NMOCD and BLM approved the site to be backfilled on October 21st, 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 14th, 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 21st, 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,

A handwritten signature in black ink, appearing to read "L. Weinheimer". The signature is fluid and cursive, with a long horizontal stroke at the end.

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										
	CI-	PID	GRO	DRO	B	T	E	X	BTEX	
SS	<16	30.6	<100	27100	<0.05	<0.05	0.138	0.301	0.439	
6"	<16	0	<10	19.2	<0.05	<0.05	<0.05	<0.15	<0.3	
1'	<16	13.4	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3	

Point 2										
	CI-	PID	GRO	DRO	B	T	E	X	BTEX	
SS	<16	79.1	<100	27500	<0.05	<0.05	0.148	0.3	0.448	
6"	<16	0	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3	
1'	<16	0	<10	489	<0.05	<0.05	<0.05	<0.15	<0.3	

Point 3										
	CI-	PID	GRO	DRO	B	T	E	X	BTEX	
SS	4000	42.8	<200	71500	0.06	0.467	0.697	1.27	2.5	
6"	160	1.2	<10	533	<0.05	<0.05	<0.05	<0.15	<0.3	
1'	32	15.4	<50	878	<0.05	<0.05	<0.05	<0.15	<0.3	

Legend

- SAMPLE POINT
- DEADMAN
- ELECTRIC POLE
- FLARE TOWER
- LIGHT POLE
- VALVE
- WELLHEAD
- PIPE END
- TANK TOP
- BURIED ELECTRIC
- CROSSOVER
- BERM
- ELECTRICAL PANEL
- FENCE
- OVERHEAD ELECTRIC LINE
- PAD/ROAD EDGE
- SURFACE ELECTRIC
- SURFACE PIPELINE
- DAMAGED CATWALK
- CHEMICAL TANK
- PUMP BASE
- STAIN
- STORAGE TANK
- TRANSFORMER

26,426 SQ FT

770 SQ FT

CI- FIELD DATA
CI- LAB DATA

Point 4										
	CI-	PID	GRO	DRO	B	T	E	X	BTEX	
SS	<16	206.4	411	36300	0.07	1.74	6.8	7.03	15.6	
6"	<16	9.9	<10	236	<0.05	<0.05	0.059	<0.15	<0.3	
1'	<16	0	<10	44.4	<0.05	<0.05	<0.05	<0.15	<0.3	

Point 5										
	CI-	PID	GRO	DRO	B	T	E	X	BTEX	
SS	<16	656.5	532	38900	<0.05	1.36	5.26	8.65	15.3	
6"	<16	67.5	<10	482	<0.05	<0.05	0.06	<0.15	<0.3	
1'	<16	0.2	<10	52.2	<0.05	<0.05	<0.05	<0.15	<0.3	

Point 6										
	CI-	PID	GRO	DRO	B	T	E	X	BTEX	
SS	112	111.7	301	39400	<0.2	<0.2	0.885	2.04	2.92	
6"	<16	551.2	664	16300	<0.2	0.317	4.69	10.6	15.6	
1'	<16	30.2	<50	3380	<0.05	<0.05	0.12	0.294	0.414	
2'	<16	40.5	<50	706	<0.05	<0.05	<0.05	<0.15	<0.3	

Point 7										
	CI-	PID	GRO	DRO	B	T	E	X	BTEX	
SS	<16	3.9	19.7	658	<0.05	<0.05	0.254	0.445	0.7	
6"	<16	4.9	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3	
1'	<16	0.1	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3	

Point 8										
	CI-	PID	GRO	DRO	B	T	E	X	BTEX	
SS	<16	4.6	<100	18800	<0.05	<0.05	<0.05	<0.15	<0.3	
6"	<16	0.4	<10	288	<0.05	<0.05	<0.05	<0.15	<0.3	
1'	<16	1.5	<10	684	<0.05	<0.05	<0.05	<0.15	<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

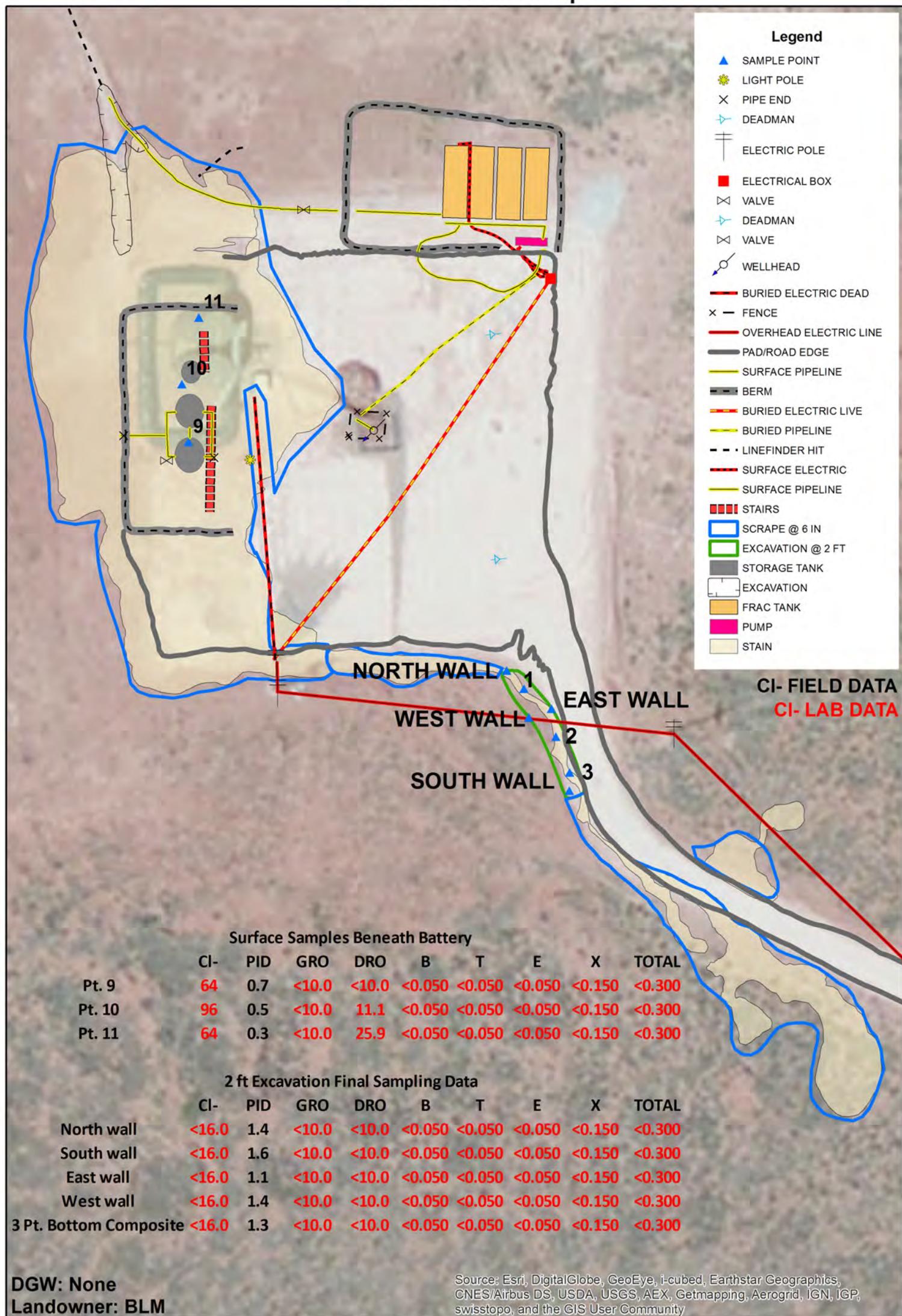


**BURNETT
POWERS 31
FEDERAL #3**
UL H SECTION 31
T-17-S R-31-E
EDDY COUNTY, NM

Figure 1

GPS date: 5/28/14 TG
Drawing date: 6/9/14
Drafted by: T. Grieco/L. Weinheimer

Excavation Map



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 POWERS 31 FEDERAL #3

UL H SECTION 31
T-17-S R-31-E
EDDY COUNTY, NM

Figure 2

0 25 50
Feet



GPS date: 9/12 & 23/14 KS, 10/10/14 KS
Drawing date: 10/14/14
Drafted by: T. Grieco, L. Weinheimer



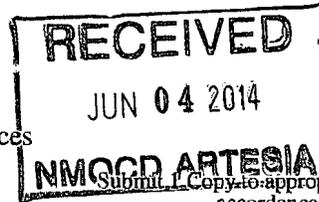
Appendix A

Initial C-141

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

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

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505



Form C-141
Revised August 8, 2011

Release Notification and Corrective Action

n HMP 1415745550

Name of Company Burnett Oil Co. <i>3080</i>		Contact Shawna Matthews	<input checked="" type="checkbox"/> Initial Report	<input type="checkbox"/> Final Report
Address 87 Square Lake Rd, Loco Hills, NM 88255		Telephone No. (575) 219-6370		
Facility Name Powers 31 Federal #3		Facility Type SWD		
Surface Owner BLM	Mineral Owner	API No. 30-015-31806		

LOCATION OF RELEASE

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

Latitude 32.792864 Longitude -103.902551

NATURE OF RELEASE

Type of Release Produced water and oil	Volume of Release 1,400 bbls produced water/60 bbls oil	Volume Recovered 1,126 bbs of fluid
Source of Release SWD tanks	Date and Hour of Occurrence 5/24/14 3:00 am	Date and Hour of Discovery 5/24/14 3:00 am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jim Amos - BLM and NMOCD (voicemail)	
By Whom? Jake Kamplain - RECS	Date and Hour 5/28/14 3:27 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Lightning struck a produced water tank at the SWD and burnt down both tanks at the site causing a release of 1,460 barrels of produced water and oil. The supply line was shut off at 3:30 am. Fire trucks arrived on the scene and extinguished the fire. Vacuum trucks were called to the site and recovered 1,226 bbls of fluid.

Describe Area Affected and Cleanup Action Taken.*

A total of 27,196 square feet of bermed battery, lease pad, caliche road and pasture land were affected by the release. The release will be remediated to NMOCD and BLM standards.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature <i>Shawna Matthews</i>	OIL CONSERVATION DIVISION	
Printed Name: Shawna Matthews	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Senior Production Technician	Approval Date: <i>6/10/14</i>	Expiration Date: <i>NA</i>
E-mail Address: smatthews@burnettoil.com	Conditions of Approval: Remediation per OCD Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION PROPOSAL NO LATER THAN:	
Date: _____ Phone: (575) 219-6370	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

PROPOSAL NO LATER THAN:

7/10/14

2RP-2331

Appendix B

Initial Sampling Labs

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



June 06, 2014

HACK CONDER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: POWERS 31 FEDERAL #3

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

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" being more prominent than the last name "Snyder".

Mike Snyder

Organic Supervisor

Analytical Results For:

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

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

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

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 % 89.5-126

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

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

Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 741 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder, Organic Supervisor

Analytical Results For:

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

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

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

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 % 89.5-126

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

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

Surrogate: 1-Chlorooctane 96.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.3 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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



Mike Snyder, Organic Supervisor

Analytical Results For:

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

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

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

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 % 89.5-126

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

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

Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder, Organic Supervisor

Analytical Results For:

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

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

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

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 % 89.5-126

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

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

Surrogate: 1-Chlorooctane 124 % 65.2-140

Surrogate: 1-Chlorooctadecane 745 % 63.6-154

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Analytical Results For:

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

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

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

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 % 89.5-126

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

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

Surrogate: 1-Chlorooctane 111 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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 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 % 89.5-126

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

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

Surrogate: 1-Chlorooctane 121 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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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 % 89.5-126

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

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

Surrogate: 1-Chlorooctane 135 % 65.2-140

Surrogate: 1-Chlorooctadecane 2080 % 63.6-154

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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 % 89.5-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/05/2014	ND	400	100	400	3.92	

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

Surrogate: 1-Chlorooctane 131 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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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 % 89.5-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/05/2014	ND	400	100	400	3.92	

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

Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 136 % 63.6-154

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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		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 % 89.5-126

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

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

Surrogate: 1-Chlorooctane 134 % 65.2-140

Surrogate: 1-Chlorooctadecane 1010 % 63.6-154

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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 % 89.5-126

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

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

Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

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

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

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

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

Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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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 % 89.5-126

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

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

Surrogate: 1-Chlorooctane 137 % 65.2-140

Surrogate: 1-Chlorooctadecane 1020 % 63.6-154

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Analytical Results For:

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

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

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

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*	0.060	0.050	06/05/2014	ND	1.76	88.2	2.00	3.63	
Total Xylenes*	<0.150	0.150	06/05/2014	ND	5.51	91.8	6.00	3.55	
Total BTEX	<0.300	0.300	06/05/2014	ND					

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

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

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

Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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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. 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 % 89.5-126

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

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

Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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 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		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 % 89.5-126

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

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

Surrogate: 1-Chlorooctane 130 % 65.2-140

Surrogate: 1-Chlorooctadecane 1030 % 63.6-154

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

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

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

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

Surrogate: 1-Chlorooctane 148 % 65.2-140

Surrogate: 1-Chlorooctadecane 389 % 63.6-154

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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		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 % 89.5-126

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

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

Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 168 % 63.6-154

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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 % 89.5-126

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

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

Surrogate: 1-Chlorooctane 93.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.6 % 63.6-154

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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		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 % 89.5-126

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

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

Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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

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

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

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

Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 116 % 63.6-154

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

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

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

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

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

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

Surrogate: 1-Chlorooctane 89.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 772 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Mike Snyder, Organic Supervisor

Analytical Results For:

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

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

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

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

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

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

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

Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

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Mike Snyder, Organic Supervisor

Analytical Results For:

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

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

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

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

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

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

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

Surrogate: 1-Chlorooctane 93.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Mike Snyder, Organic Supervisor

Notes and Definitions

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



Mike Snyder, Organic Supervisor



CARDINAL 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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: RECS	BILL TO	ANALYSIS REQUEST	
Project Manager: Laura Flores	P.O. #:	Chlorides TPH 8015 M BTEX Texas TPH Complete Cations/Anions TDS	
Address:	Company:		
City: Hobbs State: NM Zip: 88240	Attn:		
Phone #: Fax #:	Address:		
Project #: Project Owner:	City:		
Project Name: Burrell o.i.	State: Zip:		
Project Location: Powers 31 Federal #3	Phone #:		
Sampler Name: Josh Balcom	Fax #:		

Lab I.D.	Sample I.D.	GRAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME										
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:												
H4011ddd																							
1	Pt. 1 @ Surface	G 1			/						5-29-14	12:00	/	/	/								
2	Pt. 1 @ 6"	G 1			/						5-29-14	12:05	/	/	/								
3	Pt. 1 @ 1'	G 1			/						5-29-14	12:10	/	/	/								
4	Pt. 2 @ Surface	G 1			/						5-29-14	12:15	/	/	/								
5	Pt. 2 @ 6"	G 1			/						5-29-14	12:20	/	/	/								
6	Pt. 2 @ 1'	G 1			/						5-29-14	12:25	/	/	/								
7	Pt. 3 @ Surface	G 1			/						5-29-14	12:30	/	/	/								
8	Pt. 3 @ 6"	G 1			/						5-29-14	12:35	/	/	/								
9	Pt. 3 @ 1'	G 1			/						5-29-14	12:40	/	/	/								
10	Pt. 4 @ Surface	G 1			/						5-29-14	12:45	/	/	/								

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

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

#54



June 10, 2014

HACK CONDER
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: POWERS 31 FEDERAL #3

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

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

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

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

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

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

Surrogate: Dibromofluoromethane 96.3 % 61.3-142

Surrogate: Toluene-d8 106 % 71.3-129

Surrogate: 4-Bromofluorobenzene 111 % 65.7-141

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

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

Surrogate: 1-Chlorooctane 70.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.2 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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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



Celey D. Keene, Lab Director/Quality Manager

Appendix C

Corrective Action Labs

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



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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in cursive script that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 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		Analyzed 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 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 65.2-140
Surrogate: 1-Chlorooctadecane 117 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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		Analyzed 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 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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	11.1	10.0	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

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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		Analyzed 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 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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

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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



Celey D. Keene, Lab Director/Quality Manager



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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	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		Analyzed 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 % 61-154

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	10/16/2014	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	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 % 47.2-157
Surrogate: 1-Chlorooctadecane 108 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	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: SOUTH WALL 2' EXCAVATION (H403163-02)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2014	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 % 61-154

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	10/16/2014	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	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 % 47.2-157

Surrogate: 1-Chlorooctadecane 104 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	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		Analyzed 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) 102 % 61-154

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	10/16/2014	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	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 % 47.2-157

Surrogate: 1-Chlorooctadecane 105 % 52.1-176

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	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		Analyzed 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) 102 % 61-154

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	10/16/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 47.2-157

Surrogate: 1-Chlorooctadecane 110 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	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		Analyzed 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 % 61-154

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	10/16/2014	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	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 % 47.2-157

Surrogate: 1-Chlorooctadecane 113 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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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



Celey D. Keene, Lab Director/Quality Manager



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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

 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, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/08/2014	ND	432	108	400	3.77	

Sample ID: IMPORTED TOP SOIL (H403724-02)

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	12/08/2014	ND	432	108	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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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



Celey D. Keene, Lab Director/Quality Manager



CARDINAL 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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: HECS		BILL TO		ANALYSIS REQUEST																			
Project Manager: Laura Flores		P.O. #:		Chlorides TPH 8015 M BTEX Texas TPH Complete Cations/Anions TDS																			
Address:		Company:																					
City: Hobbs State: NM Zip: 88240		Attn:																					
Phone #: Fax #:		Address:																					
Project #: Project Owner:		City:																					
Project Name: Burnett oil co		State: Zip:																					
Project Location: Powers 31 fed #3		Phone #:																					
Sampler Name: Joshua Balcom		Fax #:																					
FOR LAB USE ONLY																							
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP. # CONTAINERS	MATRIX											PRESERV.	SAMPLING								
			GROUNDWATER			DATE	TIME																
			WASTEWATER																				
			SOIL																				
			OIL																				
			SLUDGE																				
			OTHER:																				
			ACID/BASE:																				
			ICE/COOL																				
			OTHER:																				
H4103724																							
1	Impacted Catclink	4				12-5-14	2:05	✓															
2	Impacted Top Soil	4				1	2:10	✓															

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

Relinquished By:	Date: 12-5-14	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: 2:50		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		email: hconder@riceswd.com; lflores@rice-ecs.com;	
Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)	lweinheimer@rice-ecs.com; knorman@rice-ecs.com;	
Sampler - UPS - Bus - Other:	Cool Intact	KP	jkamplain@rice-ecs.com; sedwards@rice-ecs.com;	
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		cursanic@rice-ecs.com	
	<input type="checkbox"/> No <input type="checkbox"/> No		Environmental Tech: JBalcom @rice-ecs.com	

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

#54

Appendix D

Photo Documentation

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

Burnett Oil Co. Powers 31 Federal #3

Unit Letter H, Section 31, T17S, R31E



Initial release area, facing northwest

5/28/14



Initial release area, facing south

5/28/14



Initial release area, facing west

5/28/14



Initial release area, facing north

5/28/14



Initial release area, facing west

5/28/14



Initial release area, facing northwest

5/28/14



Sampling release area, facing south

5/29/14



Scraping battery pad, facing southeast

6/9/14



Removing tanks, facing southwest 6/10/14



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



Exporting soil, facing west 6/11/14



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



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



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



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



New facility installed, facing north
9/11/14



2 ft excavation completed, facing northwest 9/11/14



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



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



Importing caliche, facing southeast 10/13/14



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



6 inch scrape on south side of facility backfilled, facing northeast 10/14/14



Importing top soil, facing south 11/3/14



Backfilling pasture area, facing northwest 11/3/14



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



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



Site backfilled, facing west
11/14/14



Adding soil amendments, facing northwest
11/14/14



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



Tilling in soil amendments, facing north
11/14/14



Seeding site, facing southeast
11/14/14



Tilling in the seed, facing southeast
11/14/14



Site completed, facing north

11/14/14



Site completed, facing west

11/14/14



Site completed, facing southeast

11/14/14



Site completed, facing northwest

11/14/14

Appendix E

Final C-141

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

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR Initial Report Final Report

Name of Company Burnett Oil Co.	Contact Leslie Garvis - Regulatory Coordinator
Address 801 Cherry St, Suite 1500, Ft. Worth, TX 76102	Telephone No. 817-583-8730
Facility Name Powers 31 Federal #3	Facility Type SWD
Surface Owner BLM	Mineral Owner
API No. 30-015-31806	

LOCATION OF RELEASE

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

Latitude 32.792864 Longitude -103.902551

NATURE OF RELEASE

Type of Release Produced water and oil	Volume of Release 1,400 bbls produced water/60 bbls oil	Volume Recovered 1,126 bbls of fluid
Source of Release SWD tanks	Date and Hour of Occurrence 5/24/14 3:00 am	Date and Hour of Discovery 5/24/14 3:00 am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jim Amos - BLM and NMOCD (voicemail)	
By Whom? Jake Kamplain - RECS	Date and Hour 5/28/14 3:27 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Lightning struck a produced water tank at the SWD and burnt down both tanks at the site causing a release of 1,460 barrels of produced water and oil. The supply line was shut off at 3:30 am. Fire trucks arrived on the scene and extinguished the fire. Vacuum trucks were called to the site and recovered 1,126 bbls of fluid.

Describe Area Affected and Cleanup Action Taken.* A total of 27,196 sq ft of bermed battery, lease pad, caliche road and pasture land were affected by the release. RECS personnel were on site beginning on May 28th, 2014 to assess the release. A total of 8 pts within the release area were sampled at the surface and with depth. The samples were taken to a commercial laboratory for analysis. A CAP was submitted to NMOCD and BLM on June 11th, 2014, and NMOCD approved the CAP on June 24th, 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. Corrective actions began at the site on June 9th, 2014. The release area, except the area around Point 6, was scraped down 6 inches. 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 pt bottom composite sample were taken to a commercial laboratory for analysis. On July 14th, 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 15th, 2014, three soil samples were taken from the base of the prior lined battery facility and sent to a commercial laboratory for analysis. On October 20th, 2014, a request was sent to NMOCD and BLM to backfill the site. NMOCD and BLM approved the site to be backfilled on October 21st, 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 14th, 2014, soil amendments were added to the pasture areas and then these areas were seeded with LPC mix.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Leslie Garvis</i>	OIL CONSERVATION DIVISION	
Printed Name: <i>LESIE GARVIS</i>	Approved by Environmental Specialist:	
Title: <i>REGULATORY COORDINATOR</i>	Approval Date:	Expiration Date:
E-mail Address: <i>lgarvis@burnettoil.com</i>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <i>11/30/15</i> Phone: <i>817-583-8730</i>		