Rice Environmental Consulting & Safety

P.O. Box 2948, Hobbs, NM 88241 Phone 575.393.2967

March 5th, 2015

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 Gissler B-3-1 (2RP-2180) NU14047MB UL/B sec. 11 T17S R30E API No. 3001504120

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 3.3 miles northeast of Loco Hills, New Mexico at UL/B sec. 11 T17S R30E. NM OSE records indicate that groundwater will likely be encountered at a depth of approximately 80 +/- feet.

On January 18th, 2014, Burnett discovered a release of oil from an oil tank inside the battery. The tank released a total of 10 barrels of oil over 22,523 square feet of lease pad and pasture land. The pad was scraped to remove the wet soil and the area in the pasture was covered with soil to help absorb the standing oil and protect livestock/wildlife. An initial C-141 was submitted to NMOCD and BLM for their approval. BLM approved the initial C-141 on February 3rd, 2014, and NMOCD approved the initial C-141 on March 4th, 2014 (Appendix A).

RECS personnel were on site beginning on January 29th, 2014 to assess the release (Figure 1). Six points within the release were sampled at the surface and with depth and field tested for chlorides and organic vapors. Representative samples were taken to a commercial laboratory for analyses (Appendix B).

Based on the field and laboratory analyses, a Corrective Action Plan (CAP) was submitted to NMOCD and BLM on March 19th, 2014. BLM approved the CAP on March 20th, 2014, with the stipulation that Burnett had to address the remainder of the contamination at the site during facility abandonment. Based on a discussion with BLM, BLM approved beginning the CAP work on May 12th, 2014.

Corrective actions began at the site on May 16th, 2014. A total of 336 cubic yards of caliche was imported to the site. A 5 point composite of the imported caliche was taken to a commercial laboratory for analysis and returned a chloride value of 720 mg/kg.

The site was excavated in five portions (Figure 2). The release area in the road was scraped down to 1 ft bgs. A hydro-vac excavated the area outside the tank battery to 1.5 ft bgs. Once the scrape was completed, a 3 point bottom composite was taken and field tested for chlorides and hydrocarbons. The composite was then sent to a commercial laboratory for analysis. The composite returned a laboratory chloride reading of 16 mg/kg, a Gasoline Range Organics (GRO) reading of non-detect, a Diesel Range Organics (DRO) reading of 10.3 mg/kg, and a BTEX reading of non-detect (Appendix C).

The area within the battery was excavated by hand shovel to a depth of 1.5 ft bgs. Once this excavation was completed, a 5 point bottom composite was taken and field tested for chlorides and organic vapors. The composite was then sent to a commercial laboratory for analysis. The composite returned a laboratory chloride reading of 1,360 mg/kg, a GRO reading of 475 mg/kg, a DRO reading of 3,670 mg/kg and a BTEX reading of 19 mg/kg.

The remainder of the lease pad was scraped down to 1 ft bgs. Once this scrape was completed, a 5 point bottom composite was taken and field tested for chlorides and organic vapors. The composite was then sent to a commercial laboratory for analysis. The composite returned a laboratory chloride reading of 400 mg/kg. GRO, DRO and BTEX readings returned values of non-detect.

The area in the pasture was excavated to a depth of 3 ft bgs. Once the excavation was completed, wall samples and a 5 point bottom composite sample were taken and field tested for chlorides and organic vapors. The samples were then sent to a commercial laboratory for analyses. The South Wall and West Wall of the 3 ft excavation returned laboratory chloride readings of non-detect. The North Wall returned a laboratory chloride reading of 560 mg/kg, and the East Wall returned a chloride reading of 192 mg/kg. All wall samples returned GRO, DRO and BTEX readings of non-detect. The 5 point bottom composite returned laboratory chloride, GRO, DRO and BTEX readings of non-detect.

The overspray to the north of the battery was washed with clean water and treated with Micro-Blaze. Micro-Blaze contains a proprietary blend of wetting agents, nutrients, and several strains of safe, non-pathogenic *Bacillus* bacteria. When applied to a hydrocarbon-based or organic spill, the wetting agent begins breaking down the contaminants into smaller molecules for more efficient degradation by the microbes into harmless byproducts like carbon dioxide, water and trace salts.

A total of 564 cubic yards of contaminated soil was taken to a NMOCD approved facility for disposal. A total of 268 cubic yards of top soil was imported to the site to serve as

backfill in the pasture area. A sample of the top soil was taken to a commercial laboratory and returned a chloride reading of non-detect.

Point 7 and Point 8 were sampled at the surface to determine if contaminated soil existed in these areas. Both surface samples were field tested for chlorides and organic vapors. The samples were then taken to a commercial laboratory for analyses. Both samples returned laboratory chloride, GRO, DRO and BTEX readings of non-detect, except for the DRO value of Point 7, which returned a reading of 196 mg/kg.

On October 20th, 2014, a request was sent to NMOCD and BLM to backfill the site. NMOCD approved the site to be backfilled on October 21st, 2014. The lease pad and battery were backfilled with the imported caliche, and the pasture was backfilled with the imported top soil.

On November 14th, 2014, soil amendments were added to the pasture area, and this area was seeded with LPC mix.

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

Given that Burnett has fulfilled the requirements of the approved CAP, Burnett respectfully requests 'remediation termination' and site closure. A final C-141 can be found in Appendix E.

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

Sincerely,

Lara Weinheimer

Project Scientist

RECS

(575) 441-0431

Attachments:

Figure 1 – Initial Sampling Data

Figure 2 – Excavation Data

Appendix A – Initial C-141

Appendix B – Initial Sampling Labs

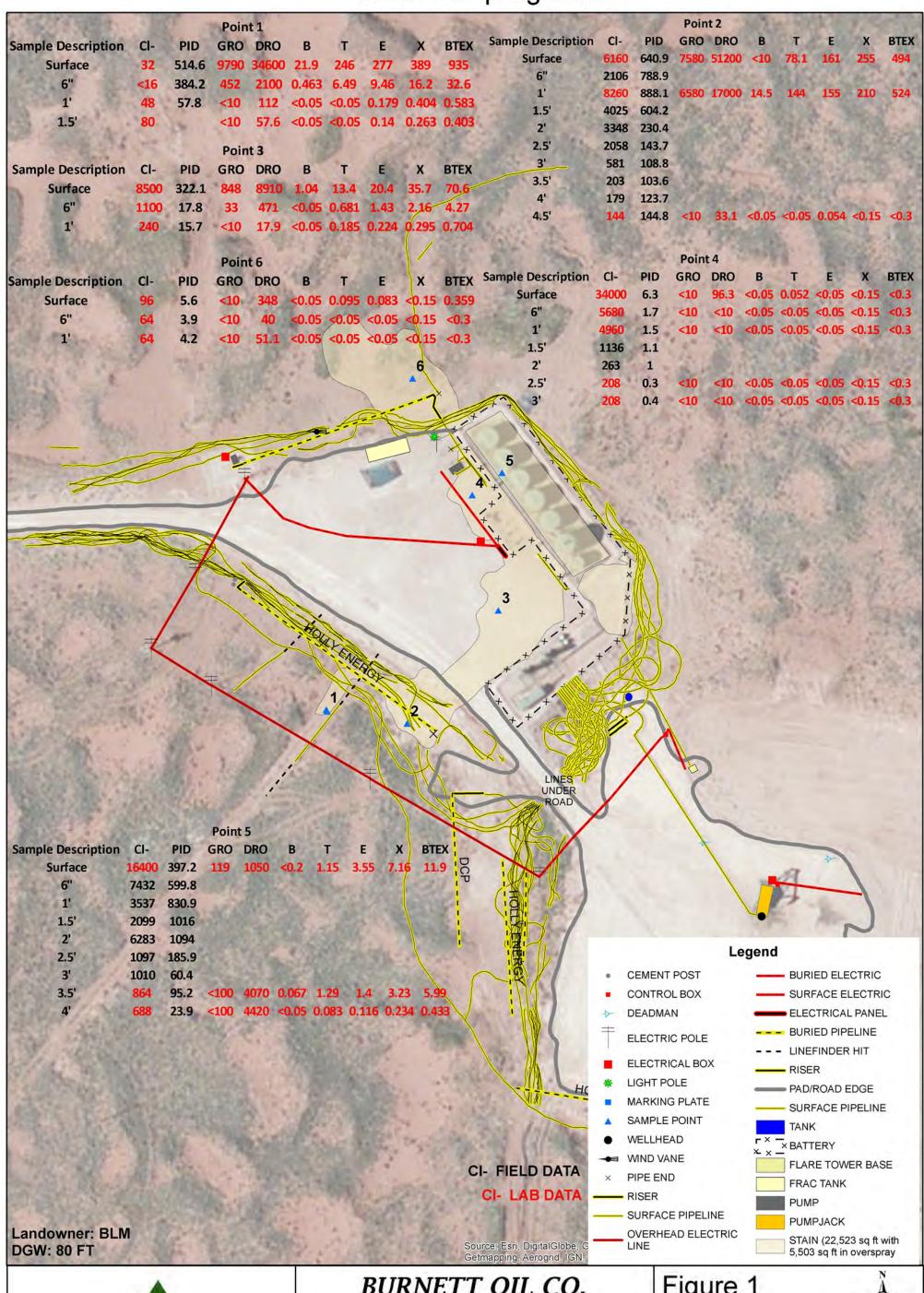
Appendix C – Site Remediation Labs

Appendix D – Photo Documentation

Appendix E – Final C-141

Figures

Initial Sampling Data



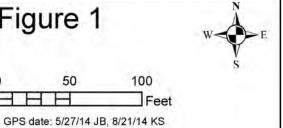


BURNETT OIL CO. GISSLER B-3-1

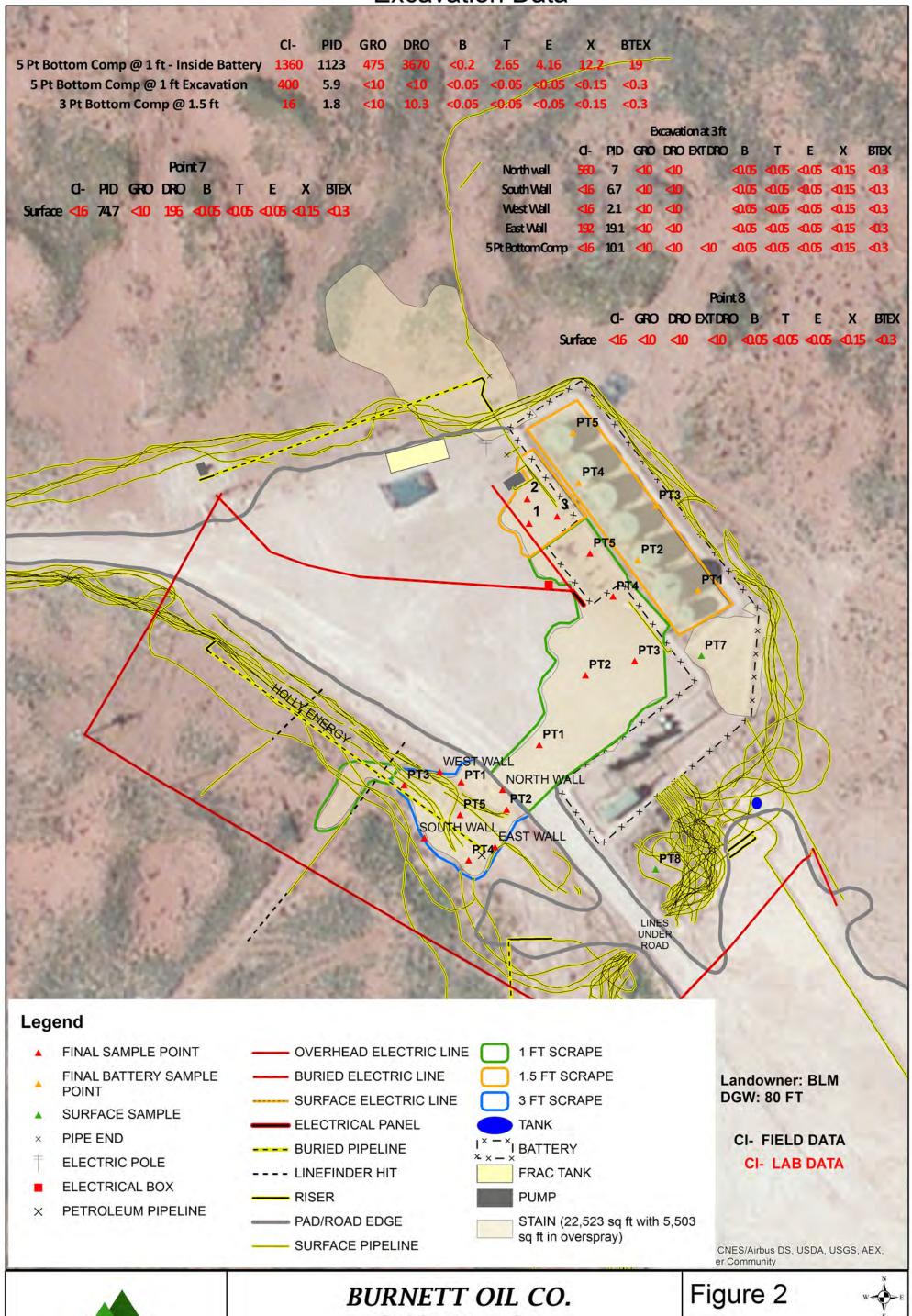
LEGALS: UL/B sec. 11 T-17-S R-30-E EDDY COUNTY, NM

Figure 1

Drawing date: 8/25/14 Drafted by: B. Cooper, T. Grieco



Excavation Data





GISSLER B-3-1

LEGALS: UL/B sec. 11 T-17-S R-30-E EDDY COUNTY, NM



25 50 HHHFeet

GPS date: 8/21/14 KS, 9/25/14 KH, 10/9/14 KS Drawing date: 10/16/14 Drafted by: 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 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.

RECEIVED

Form C-141 Revised August 8, 2011

Submit I Copy to appropriate District Office in NMOCD ARTES 17.

Santa Fe, NM 87505 Release Notification and Corrective Action

11111314	06342	187			OPERA	TOR	✓ Init:	ial Report	Final Repo
Name of Co	ompany B	urnett Oil C	o. Inc.	.3080	Contact Sl	nawna Matthews	1		
		8, Loco Hill	s, NM 88	3255		No. (575) 322-7			
Facility Na	me Gissler	r B-3-1			Facility Ty	pe Tank Battery	/		
Surface Ow	mer BLM			Mineral Ow	ner		API N	o. 300150412	0
				LOCAT	ION OF RE	LEASE			
Unit Letter	Section	Township	Range		North/South Line	Feet from the	East/West Line	County	
В	-11	17S	30E	866	FNL	1847	FEL	Eddy	
			Latitude	32.854395	Longitude -1	03.939889			
				NATU	RE OF REL	EASE			
Type of Rele	ease Oil	_		MATO		f Release 10 bbls	Volume	Recovered 0 bb	ols
Source of Re		ank				Hour of Occurrent		Hour of Discov	
					1/18/14	12:12 pm	12:12 pn		77.59717717
Was Immedi	ate Notice (Yes 🗵	No Not Requ		o Whom?			
By Whom?					Date and				
Was a Water	course Read		Yes 🗵] No	If YES, V	olume Impacting	the Watercourse.		
If a Waterco	change county Tree	anatal Dans	Olean Co. Harris						
oil and prote	ct livestock/ ca Affected	wildlife.	Action Tal	s scraped to remove		area in the pasture	e was covered will	son to help abs	oro the standing
I hereby cert	ify that the i	nformation g	iven above	is true and complet	e to the best of my	y knowledge and t	inderstand that pur	suant to NMOC	D rules and
public health should their or the enviro	or the environerations has not the contract of the contract. In a	ronment. The	acceptant adequately OCD accep	the of a C-141 report investigate and remetance of a C-141 rep	by the NMOCD rediate contamina	narked as "Final R tion that pose a thr	eport" does not re	lieve the operator, surface water	or of liability human health
	0		1 .1	2		OIL CON	SERVATION	DIVISION	
Signature:	SW	LUNO)	Lotte	OUX		01 1 1 1	4/11	22.173	
Printed Nam	e: Shawna	Matthews			Approved by	Signed By y Environmental S	pecialist:	market	F
Title: Produ	ction Techn	ician			Approval Da	的 於 於 於 於	Expiration	Date: NA	
E-mail Addr	ess: smatthe	ews@burnetto	oil.com		Constitution	Ć A		Attached [
	9/14			ne: (575) 322-721		ediation per OC nes. SUBMIT RE	IAIFF		
Attach Addi	tional Shee	ets If Necess	ary		PRO	POSAL NO LAT	ER THAN:	2RP-2	180

$\begin{array}{c} Appendix \ B \\ \text{Initial Sampling Labs} \end{array}$



February 12, 2014

JACOB KAMPLAIN
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: GRISSLER B 3-1 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/06/14 16:25.

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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celes D. Keeno

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 JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 02/06/2014 Sampling Date: 01/29/2014

Reported: 02/12/2014 Sampling Type: Soil

Project Name: **GRISSLER B 3-1 BATTERY** Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Amanda Ponce

A ... - L ... - - - I D. .. MC

Project Location: NOT GIVEN

Sample ID: POINT 1 @ SURFACE (H400388-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	21.9	10.0	02/10/2014	ND	2.28	114	2.00	3.13	
Toluene*	246	10.0	02/10/2014	ND	2.24	112	2.00	3.10	
Ethylbenzene*	277	10.0	02/10/2014	ND	2.23	111	2.00	2.89	
Total Xylenes*	389	30.0	02/10/2014	ND	6.50	108	6.00	2.95	
Total BTEX	935	60.0	02/10/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	135	% 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	32.0	16.0	02/12/2014	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	9790	200	02/10/2014	ND	214	107	200	0.383	
DRO >C10-C28	34600	200	02/10/2014	ND	198	99.1	200	3.57	
Surrogate: 1-Chlorooctane	521		0						

Surrogate: 1-Chlorooctadecane 1600 % 63.6-154

Cardinal Laboratories *=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 02/06/2014 Sampling Date: 01/29/2014

Reported: 02/12/2014 Sampling Type: Soil

Project Name: GRISSLER B 3-1 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Amanda Ponce

Project Location: NOT GIVEN

Sample ID: POINT 2 @ SURFACE (H400388-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<10.0	10.0	02/10/2014	ND	2.28	114	2.00	3.13	
Toluene*	78.1	10.0	02/10/2014	ND	2.24	112	2.00	3.10	
Ethylbenzene*	161	10.0	02/10/2014	ND	2.23	111	2.00	2.89	
Total Xylenes*	255	30.0	02/10/2014	ND	6.50	108	6.00	2.95	
Total BTEX	494	60.0	02/10/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	129	% 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	6160	16.0	02/12/2014	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	7580	200	02/10/2014	ND	214	107	200	0.383	
DRO >C10-C28	51200	200	02/10/2014	ND	198	99.1	200	3.57	
Surrogate: 1-Chlorooctane	425	% 65.2-14	0						

Surrogate: 1-Chlorooctadecane 425 % 05.2-140
Surrogate: 1-Chlorooctadecane 1220 % 63.6-154

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 02/06/2014 Sampling Date: 01/29/2014

Reported: 02/12/2014 Sampling Type: Soil

Project Name: GRISSLER B 3-1 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Amanda Ponce

Project Location: NOT GIVEN

Sample ID: POINT 3 @ SURFACE (H400388-03)

BTEX 8021B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.04	1.00	02/10/2014	ND	2.28	114	2.00	3.13	
Toluene*	13.4	1.00	02/10/2014	ND	2.24	112	2.00	3.10	
Ethylbenzene*	20.4	1.00	02/10/2014	ND	2.23	111	2.00	2.89	
Total Xylenes*	35.7	3.00	02/10/2014	ND	6.50	108	6.00	2.95	
Total BTEX	70.6	6.00	02/10/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	148	% 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	8500	16.0	02/12/2014	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	848	100	02/10/2014	ND	214	107	200	0.383	
DRO >C10-C28	8910	100	02/10/2014	ND	198	99.1	200	3.57	
Surrogate: 1-Chlorooctane	150	% 65.2-14	0						

Surrogate: 1-Chlorooctadecane 236 % 63.6-154

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 02/06/2014 Sampling Date: 01/29/2014

Reported: 02/12/2014 Sampling Type: Soil

Project Name: **GRISSLER B 3-1 BATTERY** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Amanda Ponce

Project Location: **NOT GIVEN**

Sample ID: POINT 4 @ SURFACE (H400388-04)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2014	ND	2.28	114	2.00	3.13	
Toluene*	0.052	0.050	02/11/2014	ND	2.24	112	2.00	3.10	
Ethylbenzene*	<0.050	0.050	02/11/2014	ND	2.23	111	2.00	2.89	
Total Xylenes*	<0.150	0.150	02/11/2014	ND	6.50	108	6.00	2.95	
Total BTEX	<0.300	0.300	02/11/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	120 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	34000	16.0	02/12/2014	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	02/10/2014	ND	214	107	200	0.383	
DRO >C10-C28	96.3	10.0	02/10/2014	ND	198	99.1	200	3.57	
Surrogate: 1-Chlorooctane	106 9	% 65.2-14	0						
	112 (,						

113 % 63.6-154 Surrogate: 1-Chlorooctadecane

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 02/06/2014 Sampling Date: 01/29/2014

Reported: 02/12/2014 Sampling Type: Soil

Project Name: **GRISSLER B 3-1 BATTERY** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Amanda Ponce

Project Location: **NOT GIVEN**

Sample ID: POINT 5 @ SURFACE (H400388-05)

BTEX 8021B	mg,	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.200	0.200	02/10/2014	ND	2.28	114	2.00	3.13	
Toluene*	1.15	0.200	02/10/2014	ND	2.24	112	2.00	3.10	
Ethylbenzene*	3.55	0.200	02/10/2014	ND	2.23	111	2.00	2.89	
Total Xylenes*	7.16	0.600	02/10/2014	ND	6.50	108	6.00	2.95	
Total BTEX	11.9	1.20	02/10/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	198	% 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	Qualifie
Chloride	16400	16.0	02/12/2014	ND	400	100	400	3.92	
ГРН 8015M	mg,	'kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	119	10.0	02/11/2014	ND	214	107	200	0.383	

Surrogate: 1-Chlorooctane 131 % 65.2-140 164 % Surrogate: 1-Chlorooctadecane 63.6-154

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 02/06/2014 Sampling Date: 01/29/2014

Reported: 02/12/2014 Sampling Type: Soil

Project Name: GRISSLER B 3-1 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Amanda Ponce

Project Location: NOT GIVEN

Sample ID: POINT 6 @ SURFACE (H400388-06)

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	02/11/2014	ND	2.28	114	2.00	3.13	
Toluene*	0.095	0.050	02/11/2014	ND	2.24	112	2.00	3.10	
Ethylbenzene*	0.083	0.050	02/11/2014	ND	2.23	111	2.00	2.89	
Total Xylenes*	<0.150	0.150	02/11/2014	ND	6.50	108	6.00	2.95	
Total BTEX	0.359	0.300	02/11/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	121 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/12/2014	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	02/10/2014	ND	214	107	200	0.383	
DRO >C10-C28	348	10.0	02/10/2014	ND	198	99.1	200	3.57	
Surrogate: 1-Chlorooctane	91.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	107 9	% 63.6-15	4						

Cardinal Laboratories *=Accredited Analyte

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



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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ARDINAL LABORATORIES

Jacob Kamplain

RECS

Project Manager:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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:

Address:									Co	mpa	any				1							1 1		- 1
City: Hobbs		State: NM	Zij	p: 8	8240)				tn:	-				1				l si					
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Sampler Name:	Kyle Schnaidt	017))						x #:	#.				5	8	12	as	at					
FOR LAB USE ONLY	,		T	Т		M	ATRI	x	ı a	PRE	SE	RV.	SAMPL	ING	구동	I	B	X	0	-		1 1		
Lab I.D.	Sample	I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:		OL	OTHER:	DATE	TIME		且		Te	Complete Cations/Anions					
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BILL TO

P.O. #:



February 14, 2014

JACOB KAMPLAIN
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: GRISSLER B 3-1 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/11/14 16:24.

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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celes D. Keeno

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 JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 02/11/2014 Sampling Date: 02/11/2014

Reported: 02/14/2014 Sampling Type: Soil

Project Name: GRISSLER B 3-1 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: NOT GIVEN

Sample ID: POINT 5 @ 3.5' (H400418-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.067	0.050	02/13/2014	ND	2.28	114	2.00	0.743	
Toluene*	1.29	0.050	02/13/2014	ND	2.22	111	2.00	1.88	
Ethylbenzene*	1.40	0.050	02/13/2014	ND	2.21	111	2.00	0.812	
Total Xylenes*	3.23	0.150	02/13/2014	ND	6.39	107	6.00	0.795	
Total BTEX	5.99	0.300	02/13/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	169	% 89.4-12	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	864	16.0	02/14/2014	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	02/12/2014	ND	204	102	200	11.4	
DRO >C10-C28	4070	100	02/12/2014	ND	192	96.2	200	12.4	
Surrogate: 1-Chlorooctane	99.7	% 65.2-14	0						
	100	0/ /2/15							

Surrogate: 1-Chlorooctadecane 199 % 63.6-154

Cardinal Laboratories *=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 02/11/2014 Sampling Date: 02/11/2014

Reported: 02/14/2014 Sampling Type: Soil

Project Name: **GRISSLER B 3-1 BATTERY** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Kathy Perez

Project Location: **NOT GIVEN**

Sample ID: POINT 5 @ 4' (H400418-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/13/2014	ND	2.28	114	2.00	0.743	
Toluene*	0.083	0.050	02/13/2014	ND	2.22	111	2.00	1.88	
Ethylbenzene*	0.116	0.050	02/13/2014	ND	2.21	111	2.00	0.812	
Total Xylenes*	0.234	0.150	02/13/2014	ND	6.39	107	6.00	0.795	
Total BTEX	0.433	0.300	02/13/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 89.4-12	26						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	02/14/2014	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	02/12/2014	ND	204	102	200	11.4	
DRO >C10-C28	4420	100	02/12/2014	ND	192	96.2	200	12.4	
Surrogate: 1-Chlorooctane	105 9	% 65.2-14	10						
Supposato: 1 Chlomosatadosano	210	0/ 62 6 15	: 1						

210 % 63.6-154 Surrogate: 1-Chlorooctadecane

Cardinal Laboratories *=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 02/11/2014 Sampling Date: 02/11/2014

Reported: 02/14/2014 Sampling Type: Soil

Project Name: GRISSLER B 3-1 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: NOT GIVEN

Sample ID: POINT 6 @ 6" (H400418-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/13/2014	ND	2.28	114	2.00	0.743	
Toluene*	<0.050	0.050	02/13/2014	ND	2.22	111	2.00	1.88	
Ethylbenzene*	<0.050	0.050	02/13/2014	ND	2.21	111	2.00	0.812	
Total Xylenes*	<0.150	0.150	02/13/2014	ND	6.39	107	6.00	0.795	
Total BTEX	<0.300	0.300	02/13/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.3	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/14/2014	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	02/12/2014	ND	204	102	200	11.4	
DRO >C10-C28	40.0	10.0	02/12/2014	ND	192	96.2	200	12.4	
Surrogate: 1-Chlorooctane	110 %	65.2-14	0						

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 02/11/2014 Sampling Date: 02/11/2014

Reported: 02/14/2014 Sampling Type: Soil

Project Name: GRISSLER B 3-1 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: NOT GIVEN

Sample ID: POINT 6 @ 1' (H400418-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2014	ND	2.28	114	2.00	0.743	
Toluene*	< 0.050	0.050	02/14/2014	ND	2.22	111	2.00	1.88	
Ethylbenzene*	< 0.050	0.050	02/14/2014	ND	2.21	111	2.00	0.812	
Total Xylenes*	<0.150	0.150	02/14/2014	ND	6.39	107	6.00	0.795	
Total BTEX	<0.300	0.300	02/14/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/14/2014	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	02/12/2014	ND	204	102	200	11.4	
DRO >C10-C28	51.1	10.0	02/12/2014	ND	192	96.2	200	12.4	
Surrogate: 1-Chlorooctane	113 %	65.2-14	0						

Surrogate: 1-Chlorooctadecane 121 % 63.6-154

Cardinal Laboratories *=Accredited Analyte

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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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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	BILL TO	ANALYSIS REQUEST
Project Manager: Jacob Kamplain	P.O. #:	
Address:	Company:	-
City: Hobbs State: NM Zip: 88240	Attn:	
Phone #: Fax #:	Address:	
Project #: Project Owner:	City:	Chlorides TPH 8015 M BTEX Texas TPH TDS TDS
Project Name:	State: Zip:	Chlorides TPH 8015 N BTEX Texas TPH TDS TDS
Project Location: Grissler "B" 3-1 Battery	Phone #:	1 801 STEY TDS TDS
Sampler Name: Kyle Schnaidt	Fax #:	Chlorides TPH 8015 BTEX Texas TP TC ation TDS
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING	1 호 풉 - � � 비
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% (C) % VATE TER		
Lab I.D. Sample I.D.	RBASE COOL	
(G)RAB OR (C)OT AMASTEWATER SOIL OIL	ACID/BASE OTHER: OTHER: OTHER:	
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PLEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remedy for any claim arising whether based in control analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing service. In no event shall Cardinal be liable for incidental or consequented damages, including without limitation, business interruption	and received by Cardinal within 30 days after completion of	the applicable
amiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such clai	n is based upon any of the above stated reasons or otherwi	ise.
2-11-14	Phone Re Fax Resu	
Relinquished By: Received By:	MI DE REMARK	S:
Relinquished By: Date: Received By:	email	results
Time:		man@rice-ecs.com
Delivered By: (Circle One) Sample Cond	ition CHECKED BY: Kjone	s@riceswd.com; jkamplain@rice-ecs.com
Sampler - UPS - Bus - Other: 4 4 c Cool Intact Types Type No Types	(Initials) hoope	der@rice-ecs.com; Lweinheimer@rice-ecs.com

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



February 18, 2014

JACOB KAMPLAIN
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: GRISSLER B 3-1 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/11/14 16:24.

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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. 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 JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 02/11/2014 Sampling Date: 02/06/2014

Reported: 02/18/2014 Sampling Type: Soil

Project Name: **GRISSLER B 3-1 BATTERY** Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: POINT 1 @ 6" (H400419-01)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.463	0.200	02/14/2014	ND	2.28	114	2.00	0.743		
Toluene*	6.49	0.200	02/14/2014	ND	2.22	111	2.00	1.88		
Ethylbenzene*	9.46	0.200	02/14/2014	ND	2.21	111	2.00	0.812		
Total Xylenes*	16.2	0.600	02/14/2014	ND	6.39	107	6.00	0.795		
Total BTEX	32.6	1.20	02/14/2014	ND						
Surrogate: 4-Bromofluorobenzene (PID	178	% 89.4-12	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	02/14/2014	ND	400	100	400	3.92		
TPH 8015M	mg,	/kg	Analyze	ed By: ms					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	452	10.0	02/12/2014	ND	204	102	200	11.4		
DRO >C10-C28	2100	10.0	02/12/2014	ND	192	96.2	200	12.4		
Surrogate: 1-Chlorooctane	142	% 65.2-14	0							
Common and a state of the state	04.4	0/ (3.6.15								

94.4 % Surrogate: 1-Chlorooctadecane 63.6-154

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 02/11/2014 Sampling Date: 02/06/2014

Reported: 02/18/2014 Sampling Type: Soil

Project Name: **GRISSLER B 3-1 BATTERY** Sampling Condition: Cool & Intact Sample Received By: Jodi Henson Project Number: NONE GIVEN

Project Location: **NOT GIVEN**

Sample ID: POINT 1 @ 1' (H400419-02)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2014	ND	2.28	114	2.00	0.743	
Toluene*	<0.050	0.050	02/14/2014	ND	2.22	111	2.00	1.88	
Ethylbenzene*	0.179	0.050	02/14/2014	ND	2.21	111	2.00	0.812	
Total Xylenes*	0.404	0.150	02/14/2014	ND	6.39	107	6.00	0.795	
Total BTEX	0.583	0.300	02/14/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 5	% 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	48.0	16.0	02/14/2014	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	02/12/2014	ND	204	102	200	11.4	
DRO >C10-C28	112	10.0	02/12/2014	ND	192	96.2	200	12.4	
Surrogate: 1-Chlorooctane	97.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	106 9	% 63.6-15	4						

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419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 02/11/2014 Sampling Date: 02/06/2014

Reported: 02/18/2014 Sampling Type: Soil

Project Name: GRISSLER B 3-1 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: POINT 1 @ 1.5' (H400419-03)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2014	ND	2.28	114	2.00	0.743	
Toluene*	<0.050	0.050	02/14/2014	ND	2.22	111	2.00	1.88	
Ethylbenzene*	0.140	0.050	02/14/2014	ND	2.21	111	2.00	0.812	
Total Xylenes*	0.263	0.150	02/14/2014	ND	6.39	107	6.00	0.795	
Total BTEX	0.403	0.300	02/14/2014	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	80.0	16.0	02/14/2014	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	02/12/2014	ND	204	102	200	11.4	
DRO >C10-C28	57.3	10.0	02/12/2014	ND	192	96.2	200	12.4	
Surrogate: 1-Chlorooctane	95.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	108 9	63.6-15	4						

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419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 02/11/2014 Sampling Date: 02/06/2014

Reported: 02/18/2014 Sampling Type: Soil

Project Name: GRISSLER B 3-1 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: POINT 2 @ 1' (H400419-04)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	14.5	5.00	02/14/2014	ND	2.28	114	2.00	0.743	
Toluene*	144	5.00	02/14/2014	ND	2.22	111	2.00	1.88	
Ethylbenzene*	155	5.00	02/14/2014	ND	2.21	111	2.00	0.812	
Total Xylenes*	210	15.0	02/14/2014	ND	6.39	107	6.00	0.795	
Total BTEX	524	30.0	02/14/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 89.4-12	6						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8260	16.0	02/14/2014	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	6580	100	02/12/2014	ND	204	102	200	11.4	
DRO >C10-C28	17000	100	02/12/2014	ND	192	96.2	200	12.4	
Surrogate: 1-Chlorooctane	226	% 65.2-14	0						

Surrogate: 1-Chlorooctadecane 73.4 % 63.6-154

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419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 02/11/2014 Sampling Date: 02/06/2014

Reported: 02/18/2014 Sampling Type: Soil

Project Name: GRISSLER B 3-1 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: POINT 2 @ 4.5' (H400419-05)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2014	ND	2.28	114	2.00	0.743	
Toluene*	<0.050	0.050	02/14/2014	ND	2.22	111	2.00	1.88	
Ethylbenzene*	0.054	0.050	02/14/2014	ND	2.21	111	2.00	0.812	
Total Xylenes*	<0.150	0.150	02/14/2014	ND	6.39	107	6.00	0.795	
Total BTEX	<0.300	0.300	02/14/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 89.4-12	6						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/14/2014	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	02/12/2014	ND	204	102	200	11.4	
			02/12/2014	ND	192	96.2	200	12.4	

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 02/11/2014 Sampling Date: 02/06/2014

Reported: 02/18/2014 Sampling Type: Soil

Project Name: GRISSLER B 3-1 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: POINT 3 @ 6" (H400419-06)

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	02/14/2014	ND	2.28	114	2.00	0.743	
Toluene*	0.681	0.050	02/14/2014	ND	2.22	111	2.00	1.88	
Ethylbenzene*	1.43	0.050	02/14/2014	ND	2.21	111	2.00	0.812	
Total Xylenes*	2.16	0.150	02/14/2014	ND	6.39	107	6.00	0.795	
Total BTEX	4.27	0.300	02/14/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 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	1100	16.0	02/14/2014	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	33.0	10.0	02/12/2014	ND	204	102	200	11.4	
DRO >C10-C28	471	10.0	02/12/2014	ND	192	96.2	200	12.4	
Surrogate: 1-Chlorooctane	91.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	92.7	% 63.6-15	4						

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419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 02/11/2014 Sampling Date: 02/06/2014

Reported: 02/18/2014 Sampling Type: Soil

Project Name: GRISSLER B 3-1 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: POINT 3 @ 1' (H400419-07)

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	02/14/2014	ND	2.28	114	2.00	0.743	
Toluene*	0.185	0.050	02/14/2014	ND	2.22	111	2.00	1.88	
Ethylbenzene*	0.224	0.050	02/14/2014	ND	2.21	111	2.00	0.812	
Total Xylenes*	0.295	0.150	02/14/2014	ND	6.39	107	6.00	0.795	
Total BTEX	0.704	0.300	02/14/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9	% 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	240	16.0	02/14/2014	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	02/12/2014	ND	204	102	200	11.4	
DRO >C10-C28	17.9	10.0	02/12/2014	ND	192	96.2	200	12.4	
Surrogate: 1-Chlorooctane	101 9	% 65.2-14	0						

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 02/11/2014 Sampling Date: 02/06/2014

Reported: 02/18/2014 Sampling Type: Soil

Project Name: GRISSLER B 3-1 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: POINT 4 @ 6" (H400419-08)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2014	ND	2.28	114	2.00	0.743	
Toluene*	<0.050	0.050	02/14/2014	ND	2.22	111	2.00	1.88	
Ethylbenzene*	<0.050	0.050	02/14/2014	ND	2.21	111	2.00	0.812	
Total Xylenes*	<0.150	0.150	02/14/2014	ND	6.39	107	6.00	0.795	
Total BTEX	<0.300	0.300	02/14/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9	% 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	5680	16.0	02/14/2014	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	02/12/2014	ND	204	102	200	11.4	
DRO >C10-C28	<10.0	10.0	02/12/2014	ND	192	96.2	200	12.4	
Surrogate: 1-Chlorooctane	98.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	98.8	% 63 6-15	4						

Surrogate: 1-Chlorooctadecane 98.8 % 63.6-154

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419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 02/11/2014 Sampling Date: 02/06/2014

Reported: 02/18/2014 Sampling Type: Soil

Project Name: GRISSLER B 3-1 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: POINT 4 @ 1' (H400419-09)

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	02/14/2014	ND	2.28	114	2.00	0.743	
Toluene*	<0.050	0.050	02/14/2014	ND	2.22	111	2.00	1.88	
Ethylbenzene*	<0.050	0.050	02/14/2014	ND	2.21	111	2.00	0.812	
Total Xylenes*	<0.150	0.150	02/14/2014	ND	6.39	107	6.00	0.795	
Total BTEX	<0.300	0.300	02/14/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.4	% 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	4960	16.0	02/14/2014	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	02/12/2014	ND	204	102	200	11.4	
DRO >C10-C28	<10.0	10.0	02/12/2014	ND	192	96.2	200	12.4	
Surrogate: 1-Chlorooctane	90.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	98.9	% 63.6-15	4						

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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

*** Insufficient time to reach temperature.

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

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

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

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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

	(303) 000 2020 17.011				·			B	LL TO						ANAL	YSIS	RE	QUE:	ST				ı
Company Name:	RECS	<u> </u>					P). #:															
Project Manager:	Jacob Kamplain						-																
Address:			·				Co	mpany:							nc Suc								ı
City: Hobbs		tate: NM	Zip:	882	40		Att	<u>:n:</u>							jic			ļ		 		· · · · · · · · · · · · · · · · · · ·	-
Phone #:	Fa	x #:					Ad	dress:	<u> </u>			1			/Ar							ĺ	l
Project #:	Pr	oject Owner:					Cit	y:	1		တ္သ	M		H	JS								
Project Name:						<u> </u>	Sta	ate:	Zip:	<u> </u>	18	1	×	Ë	. <u>ō</u>	S					-		l
Project Location	Grissler "B" 3.	-1 Batter	4_			<u> </u>	Ph	one#:			Chlorides	TPH 8015	BTEX	Texas TPH	à	TDS							
Sampler Name:			<u> </u>				Fa	x.#:			를	工	B	l 💥									
Eab I.D.	Sample I.D. Point 1 @ 1' Point 1 @ 1.5' Point 2 @ 1' Foint 2 @ 4.5' Point 3 @ 6"		POPO	I I I I # CONTAINERS	GROUNDWAIEK	HATRIX HOS K K K K K K K K K K K K K	SLUDGE	K K K K K K K K K K		TIME 72:00 12:05 12:10 12:30 12:35 1:30	N X X X X X X X X X X X X X X X X X X X	dl XXXXX	X X X X X	¥	Complete Cations/Anions								
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476





March 04, 2014

JACOB KAMPLAIN
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: GRISSLER B 3-1 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/24/14 16:25.

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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celes D. Keeno

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



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN

HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 02/24/2014 Sampling Date: 02/20/2014

Reported: 03/04/2014 Sampling Type: Soil

Project Name: **GRISSLER B 3-1 BATTERY** Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: PT. 4 @ 2.5 (H400559-01)

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	03/03/2014	ND	2.01	100	2.00	3.71	
Toluene*	<0.050	0.050	03/03/2014	ND	2.10	105	2.00	1.64	
Ethylbenzene*	<0.050	0.050	03/03/2014	ND	1.92	96.1	2.00	0.111	
Total Xylenes*	<0.150	0.150	03/03/2014	ND	5.80	96.6	6.00	0.835	
Total BTEX	<0.300	0.300	03/03/2014	ND					
Surrogate: Dibromofluoromethane	102	% 61.3-14	2						
Surrogate: Toluene-d8	102	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	103	% 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	208	16.0	03/04/2014	ND	448	112	400	11.3	
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	03/01/2014	ND	213	107	200	3.32	
DRO >C10-C28	<10.0	10.0	03/01/2014	ND	214	107	200	2.58	
Surrogate: 1-Chlorooctane	96.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	98.0	% 63.6-15	4						

Cardinal Laboratories *=Accredited Analyte

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



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN

HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 02/24/2014 Sampling Date: 02/20/2014

Reported: 03/04/2014 Sampling Type: Soil

Project Name: **GRISSLER B 3-1 BATTERY** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: PT. 4 @ 3' (H400559-02)

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	03/03/2014	ND	2.01	100	2.00	3.71	
Toluene*	<0.050	0.050	03/03/2014	ND	2.10	105	2.00	1.64	
Ethylbenzene*	<0.050	0.050	03/03/2014	ND	1.92	96.1	2.00	0.111	
Total Xylenes*	<0.150	0.150	03/03/2014	ND	5.80	96.6	6.00	0.835	
Total BTEX	<0.300	0.300	03/03/2014	ND					
Surrogate: Dibromofluoromethane	98.2	% 61.3-14	2						
Surrogate: Toluene-d8	100	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	103	% 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	208	16.0	03/04/2014	ND	448	112	400	11.3	
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	03/01/2014	ND	213	107	200	3.32	
DRO >C10-C28	<10.0	10.0	03/01/2014	ND	214	107	200	2.58	
Surrogate: 1-Chlorooctane	97.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	96.3	% 63.6-15	4						

Cardinal Laboratories *=Accredited Analyte

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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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Company Name: Dry

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Appendix C Site Remediation Labs



May 27, 2014

JACOB KAMPLAIN
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: GISSLER B 3-1 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/16/14 16:15.

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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celes D. Keens

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

Sincerely,

Celey D. Keene



RICE ENVIRONMENTAL CONSULTING & SAFETY

JACOB KAMPLAIN 419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 05/16/2014 Sampling Date: 05/16/2014

Reported: 05/27/2014 Sampling Type: Soil

Project Name: GISSLER B 3-1 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: 5 PT COMP IMPORT CALICHE (H401519-01)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	05/23/2014	ND	416	104	400	0.00	

Cardinal Laboratories *=Accredited Analyte

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



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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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:	0 F/C	-	(-, -						BII	4 70						ANAL	YSIS R	EQUEST	_		
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Project Location	Gissler B 3-1 Bat	ter	y				F	Pho	ne #	:			9	8	BTEX	SS	at	TDS				
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



September 26, 2014

LAURA FLORES
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: GISSLER B 3-1 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/25/14 16:18.

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/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene



RICE ENVIRONMENTAL CONSULTING & SAFETY LAURA FLORES 419 W. CAIN

HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 09/25/2014 Sampling Date: 09/25/2014

Reported: 09/26/2014 Sampling Type: Soil

Project Name: **GISSLER B 3-1 BATTERY** Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: NOT GIVEN

Sample ID: 1.5' 3 PT. COMP (H402939-01)

BTEX 8021B	mg/	kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2014	ND	1.91	95.7	2.00	0.358	
Toluene*	<0.050	0.050	09/26/2014	ND	1.79	89.7	2.00	0.579	
Ethylbenzene*	<0.050	0.050	09/26/2014	ND	1.66	82.8	2.00	1.52	
Total Xylenes*	<0.150	0.150	09/26/2014	ND	4.91	81.8	6.00	1.95	
Total BTEX	<0.300	0.300	09/26/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/26/2014	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	09/25/2014	ND	185	92.3	200	8.51	
DRO >C10-C28	10.3	10.0	09/25/2014	ND	192	96.2	200	6.04	
Surrogate: 1-Chlorooctane	93.2 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	101 9	63.6-15	14						

Surrogate: 1-Chlorooctadecane 63.6-154

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keene



Notes and Definitions

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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

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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

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oject Location: (Gister 13-3-1 bat	bery		_					one	#:	_			Chlorides	TPH 8015	BTEX	Texas TPH	Ö	F	1	1		
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OR LAB USE ONLY		a.		-	IVU	T	Î		1					1	F		-	9		1 1			
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



September 30, 2014

LAURA FLORES
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: GISSLER B 3-1 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/26/14 16:25.

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/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene



RICE ENVIRONMENTAL CONSULTING & SAFETY LAURA FLORES 419 W. CAIN

HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 09/26/2014 Sampling Date: 09/26/2014

Reported: 09/30/2014 Sampling Type: Soil

Project Name: **GISSLER B 3-1 BATTERY** Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: PT. 7 SURFACE (H402955-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2014	ND	1.88	94.0	2.00	7.85	
Toluene*	<0.050	0.050	09/29/2014	ND	1.79	89.4	2.00	9.27	
Ethylbenzene*	<0.050	0.050	09/29/2014	ND	1.66	83.2	2.00	8.60	
Total Xylenes*	<0.150	0.150	09/29/2014	ND	4.91	81.9	6.00	8.28	
Total BTEX	<0.300	0.300	09/29/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/29/2014	ND	384	96.0	400	8.00	
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	09/27/2014	ND	179	89.5	200	0.798	
DRO >C10-C28	196	10.0	09/27/2014	ND	187	93.4	200	1.91	
Surrogate: 1-Chlorooctane	91.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	110 9	63.6-15	4						

Surrogate: 1-Chlorooctadecane 63.6-154

Cardinal Laboratories *=Accredited Analyte

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



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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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

Project Manager: Laura Flores / Address: 419 W Cain City: Hobbs State: NM Zip: 88240 Attn: Phone #: Project Name: Project Owner: Project Name: Support oil co Project Location: Garler B-3-/ Sampler Name: Joshua Balcom FOR LAB USE ONLY Lab I.D. Sample I.D. Project Manager: Laura Flores / P.O. #: Company: Address: Address: City: State: Zip: Phone #: Fax #: Project Location: Garler B-3-/ Phone #: For LAB USE ONLY Lab I.D. Sample I.D. Sample I.D.	
Address: 419 W Cain City: Hobbs State: NM Zip: 88240 Attn: Phone #: Fax #: Address: Project #: Project Owner: City: Project Location: Gaster B-3-/ Sampler Name: Joshua Balcom FOR LAB USE ONLY Attn: State: Zip: Phone #: Fax #: Phone #: Fax #: Sampling MATRIX PRESERV. SAMPLING PAGE MATRIX PRESERV. SAMPLING	
City: Hobbs State: NM Zip: 88240 Attn: Phone #: Fax #: Address: Project #: Project Owner: City: Project Name: Sumpler Name: Joshua Balcom FOR LAB USE ONLY Attn: Address: City: State: Zip: Phone #: Fax #: Sampler Name: Joshua Balcom FOR LAB USE ONLY Attn: Address: State: Zip: Phone #: Fax #: Sampler Name: Joshua Balcom FOR LAB USE ONLY Attn: Address: State: Zip: Phone #: Fax #: SAMPLING Attn: Address: Address: Fax #: Phone #: Phone #: Fax #: SAMPLING ATTRIX PRESERV. SAMPLING	
Phone #: Fax #: Project #: Project Owner: Project Name: Supply oil co State: Zip: Project Location: Gaster B-3-1 Sampler Name: Joshua Balcom FOR LAB USE ONLY Address: City: Phone #: For Lab USE ONLY Address: Oily: State: Zip: Phone #: Fax #: MATRIX PRESERV. SAMPLING Address: VELOUP July: Address: State: Zip: Phone #: Fax #: Sampler Name: Joshua Balcom For Lab USE ONLY Address: Oily: Project Name: Zip: Phone #: Fax #: Sampler Name: Joshua Balcom Fax #: Sampler Name: Joshua Balcom For Lab USE ONLY	
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Project Name: Buttle For Location: Gastler B-3-1 Sampler Name: Joshua Balcom FOR LAB USE ONLY State: Zip: Phone #: Fax #: MATRIX PRESERV. SAMPLING PRESERV. SAMPLING OUT OF STATE OF SAMPLING PROJECT Name: Zip: Phone #: Fax #: SOUT OF STATE OF SAMPLING PRESERV. SAMPLING PRESERV. SAMPLING PRESERV. SAMPLING	
Project Location: Guster 13-3-1 Sampler Name: Joshua Balcom Fax #: FOR LAB USE ONLY Phone #: Fax #: Fax #: For Lab Use Only Phone #: Fax #: Fax #: Fax #: Fax #: For Lab Use Only Phone #: Fax	
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Time: jkamplain@rice-ecs.com; regans@rice-ecs.	s.com; iflores@rice-ecs.com;
Delivered By: (Circle One) Sampler - UPS - Bus - Other: Sample Condition CHECKED By: (Initials) Sample Condition CHECKED By: (Initials) No No No	e-ecs.com jbalcom@rice-ecs.com

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2446





September 30, 2014

LAURA FLORES
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: GISSLER B 3-1 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/29/14 15:30.

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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene



RICE ENVIRONMENTAL CONSULTING & SAFETY LAURA FLORES 419 W. CAIN

HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 09/29/2014 Sampling Date: 09/26/2014

Reported: 09/30/2014 Sampling Type: Soil

Project Name: **GISSLER B 3-1 BATTERY** Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: 5 PT COMPOSITE 1' EXCAVATION (H402966-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2014	ND	1.77	88.6	2.00	7.32	
Toluene*	<0.050	0.050	09/30/2014	ND	1.65	82.3	2.00	8.58	
Ethylbenzene*	<0.050	0.050	09/30/2014	ND	1.53	76.6	2.00	8.91	
Total Xylenes*	<0.150	0.150	09/30/2014	ND	4.54	75.6	6.00	9.56	
Total BTEX	<0.300	0.300	09/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 61-154	!						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	09/30/2014	ND	384	96.0	400	8.00	
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	09/30/2014	ND	190	94.8	200	2.35	
DRO >C10-C28	<10.0	10.0	09/30/2014	ND	208	104	200	2.12	
Surrogate: 1-Chlorooctane	97.6	% 65.2-14	0						
Surrogata: 1 Chloroctadacana	111 0	63 6 15	1						

111 % Surrogate: 1-Chlorooctadecane 63.6-154

Cardinal Laboratories *=Accredited Analyte

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

Celeg D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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*** 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

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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	e: RECS		,									£10	1311					ANA	YSIS	REQU	EST		
Project Manage	er: Laura Flores /							P.C). #:														
Address: 419								Co	mpa	ny:								2					
City: Hobbs	State: NM	Zip	: 88	3240				Att	n:									o					
Phone #:	Fax#:							Ad	dres	ss:								'n					
Project #:	Project Owner	:						Cit	y:						Σ		т	1/8					
Project Name:	Burnett oil co.							Sta	te:			Zip:		les	2	×	٩	no					
Project Location	in: Gissler 13-3-1 Bax	ter	V					Pho	one	#:				Chlorides	8015	BTEX	Texas TPH	aţį	TDS				
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FOR LAB USE ONLY			Г		M	ATRI	X		PRE	SER	۲V.	SAMPLIN	NG	Ö	TPH		e)	te					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	отнея:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME		_			Complete Cations/Anions					
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analyses. All claims include service. In no event shall	and Damages. Cardinal's liability and client's exclusive remedy for a sing those for negligence and any other cause whatsoever shall be or Cardinal be liable for incidental or consequential damages, including sing out of or realized to the performance of services hereunder by C	deeme withou	d waiv	ed unle ation, b	ss mad usiness	e in wy	ing and ptions,	received to the contract of th	red by use, o	Cardin or loss	sal wi	thin 30 days after ofits incurred by ci	completion of t	the applical aries,	ble								
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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September 30, 2014

LAURA FLORES
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: GISSLER B 3-1 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/29/14 15:30.

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/ga/lab accred certif.html.

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Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene



RICE ENVIRONMENTAL CONSULTING & SAFETY LAURA FLORES

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 09/29/2014 Sampling Date: 09/26/2014

Reported: 09/30/2014 Sampling Type: Soil

Project Name: GISSLER B 3-1 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: 5 PT COMPOSITE 1' EXC BATTERY (H402967-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/30/2014	ND	1.77	88.6	2.00	7.32	
Toluene*	2.65	2.65 0.200		ND	1.65	82.3	2.00	8.58	
Ethylbenzene*	4.16 0.200		09/30/2014	ND	1.53 76.6		2.00	8.91	
Total Xylenes*	12.2 0.600		09/30/2014	ND	4.54	75.6	6.00	9.56	
Total BTEX	19.0	1.20	09/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	09/30/2014	ND	384	96.0	400	8.00	
TPH 8015M	mg/kg		Analyze	d By: ms					S-06
Analyte	Analyte Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	475	100	09/30/2014	ND	190	94.8	200	2.35	

ND

09/30/2014

208

104

200

2.12

Surrogate: 1-Chlorooctane 151 % 65.2-140
Surrogate: 1-Chlorooctadecane 165 % 63.6-154

3670

DRO >C10-C28

100

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Celeg D. Freene



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.

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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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

ompany Name: RECS								Fi	BI	LL TO	111569	1			ANALYSIS REQUEST							
Project Manager: Laura Flores /								P.O.									ANA	TOIS REQUES	1			
Address: 419 W Cain								Com	pan	v:			1									
City: Hobbs	State: NM	Zij	p: 8	8240)			Attn		,			1				l su					
Phone #:	Fax #:							Addr					1				읃					
Project #:	Project Owne	er:						City:					1	Σ		_	B					
Project Name: Burnett or	1 00							State: Zip:					Se			표	ns/					
Project Location: Giscler B	-3-1 batte	14					_	Phone #:					Chlorides	TPH 8015	X	Texas TPH	.Ö	0				
Sampler Name: Joshua Balcom		1						Fax #:						8	BTEX	as	Sat	SOT	111			
FOR LAB USE ONLY		Τ.	Т		MA	ATRI	_		RESE	RV.	SAMPL	ING	18	포	ш	X	0	-111				
HYOZHIT- Ol Spl. Corposite		(G)RAB OR (C)OMP	- # CONTAINERS	GROUNDWATER	WASTEWATER	OF OF	SLUDGE	ACID/BASE	CICE / COOL	отнея:	DATE 926-14	TIME 1:00	V			-	Complete Cations/Anions					
EASE NOTE: Liability and Damages. Cardinal's liability and alyses. All claims including those for regigence and any oth role. In no event shall Cardinal be liable for incidental or consistes or successors arising out of or related to the performance linquished By: Delivered By: (Circle One) sampler - UPS - Bus - Other:	paquental damages, including on of services hereunder by contract of the services of the services hereunder by contract of the services of the service	Rec	eive eive	ed By	mple of No	Concentract	lition	of use, sed upo	CHEC (II	CKE	nin 30 days after its incurred by d ibove stated rea	completion of the leent, its subsidiar statement is subsidiar statement in the leent, its subsidiar statement in the leent in	sults: [continue of the conti	Yes Yes -ecs.c	cs.com	knorm	ns@r	x#: rice-ecs.com; ice-ecs.com; Ifforc@rice-ecs.com	es@rice-ecs.com			



October 13, 2014

LAURA FLORES
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: GISSLER B 3-1 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/08/14 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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene



RICE ENVIRONMENTAL CONSULTING & SAFETY LAURA FLORES

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 10/08/2014 Sampling Date: 10/08/2014

Reported: 10/13/2014 Sampling Type: Soil

Project Name: GISSLER B 3-1 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: NOT GIVEN

Sample ID: NORTH WALL 3' EXCAVATION (H403081-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2014	ND	1.67	83.4	2.00	11.5	
Toluene*	<0.050	0.050	10/09/2014	ND	1.64	82.0	2.00	8.86	
Ethylbenzene*	<0.050	0.050	10/09/2014	ND	1.55	77.3	2.00	10.8	
Total Xylenes*	<0.150 0.150		10/09/2014	ND	4.57	76.2	6.00	11.0	
Total BTEX	<0.300 0.300		10/09/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	rrogate: 4-Bromofluorobenzene (PID 101 %								
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	10/09/2014	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	<10.0	10.0	10/09/2014	ND	176	87.8	200	1.23	
DRO >C10-C28	<10.0	10.0	10/09/2014	ND	178	89.0	200	0.304	
Surrogate: 1-Chlorooctane	1-Chlorooctane 96.2 % 47.2-1		7						
Surrogate: 1-Chlorooctadecane	101 9	52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY

LAURA FLORES 419 W. CAIN

HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 10/08/2014 Sampling Date: 10/08/2014

Reported: 10/13/2014 Sampling Type: Soil

Project Name: **GISSLER B 3-1 BATTERY** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Kathy Perez

Project Location: **NOT GIVEN**

Sample ID: SOUTH WALL 3' EXCAVATION (H403081-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2014	ND	1.67	83.4	2.00	11.5	
Toluene*	<0.050	0.050	10/09/2014	ND	1.64	82.0	2.00	8.86	
Ethylbenzene*	<0.050	0.050	10/09/2014	ND	1.55	77.3	2.00	10.8	
Total Xylenes*	<0.150	0.150	10/09/2014	ND	4.57	76.2	6.00	11.0	
Total BTEX	<0.300	0.300	10/09/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 61-154	!						
Chloride, SM4500Cl-B	mg/	mg/kg		d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/09/2014	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	<10.0	10.0	10/09/2014	ND	176	87.8	200	1.23	
DRO >C10-C28	<10.0	10.0	10/09/2014	ND	178	89.0	200	0.304	
Surrogate: 1-Chlorooctane	92.9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	99.6	% 52.1-17	6						

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RICE ENVIRONMENTAL CONSULTING & SAFETY

LAURA FLORES 419 W. CAIN

HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 10/08/2014 Sampling Date: 10/08/2014

Reported: 10/13/2014 Sampling Type: Soil

Project Name: GISSLER B 3-1 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: NOT GIVEN

Sample ID: WEST WALL 3' EXCAVATION (H403081-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2014	ND	1.67	83.4	2.00	11.5	
Toluene*	< 0.050	0.050	10/09/2014	ND	1.64	82.0	2.00	8.86	
Ethylbenzene*	< 0.050	0.050	10/09/2014	ND	1.55	77.3	2.00	10.8	
Total Xylenes*	< 0.150	0.150	10/09/2014	ND	4.57	76.2	6.00	11.0	
Total BTEX	<0.300	0.300	10/09/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/09/2014	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	<10.0	10.0	10/09/2014	ND	176	87.8	200	1.23	
DRO >C10-C28	<10.0	10.0	10/09/2014	ND	178	89.0	200	0.304	
Surrogate: 1-Chlorooctane	98.2 % 47.2-157		7						
Surrogate: 1-Chlorooctadecane	105 9	6 52.1-17	6						

Surrogate: 1-Chlorooctadecane 105 % 52.1-1/6

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RICE ENVIRONMENTAL CONSULTING & SAFETY LAURA FLORES

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 10/08/2014 Sampling Date: 10/08/2014

Reported: 10/13/2014 Sampling Type: Soil

Project Name: GISSLER B 3-1 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: NOT GIVEN

Sample ID: EAST WALL 3' EXCAVATION (H403081-04)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2014	ND	1.59	79.6	2.00	14.5	
Toluene*	< 0.050	0.050	10/10/2014	ND	1.55	77.5	2.00	14.1	
Ethylbenzene*	< 0.050	0.050	10/10/2014	ND	1.47	73.7	2.00	15.0	
Total Xylenes*	<0.150 0.150		10/10/2014	ND	4.37	72.8	6.00	15.5	
Total BTEX	<0.300	0.300	10/10/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	61-154							
Chloride, SM4500Cl-B	M4500Cl-B mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/09/2014	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	<10.0	10.0	10/09/2014	ND	176	87.8	200	1.23	
DRO >C10-C28	<10.0	10.0	10/09/2014	ND	178	89.0	200	0.304	
Surrogate: 1-Chlorooctane	95.8	% 47.2-15	7						
urrogate: 1-Chlorooctadecane 102 % 52.1-		52.1-17	6						

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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

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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							1		B	3/L	L TO	51155	ANALYSIS REQUEST							90		
	Laura Flores / Ja	cah Vam	ola	in				P.	0. #:									- 1	100		110	200	-
Address: 419								C	mpa	any:								SL				25	152
City: Hobbs	77 00	State: NM	Zip:	882	240			At	tn:					1		1 1		.ō				. 4	24
Phone #:		Fax #:						A	ddre	ss:								An					1
Project #:		Project Owner	:					City:					Chlorides	Σ		Ī	ls/						
Project Name:								State: Zip:						15	×	Texas TPH	Cations/Anions	co					
Project Location	n: Gissler B	3-1 Bat	ter	u.				Phone #:						8	BTEX	S	at	TDS		-		-	
Sampler Name:	Kule Schna	idt	(,				Fa	x #:		_			글	TPH 8015 M	m'	X		-				
Lab I.D.	Sample I.	D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL		SLUDGE		ICE / COOL	OTHER:	DATE	TIME		T.		ř	Complete					
1	Noth Wall 3'	exeguation	6	1		K				X,	1	6-8-14	1:46	X	K	X			-		+		
a	South wall 3'	excaustical	6	1		a			1	R.	1	(_	1:45	X	K	X			-		-		
3 4	West wall 3' East wall 3'	excavation	6	1		X				ox ox		5	1:50	L	X	K							
analyses. All claims includ	and Damages. Cardinal's liability and ol- ting those for negligence and any other Cardinal be liable for incidental or cons- sing out of or related to the performance	cause whatsoever shall be equental damages, includir of services hereunder by	g witho Cardina	ut limita IL regar	tion but	siness in whether	tomintie	ne Ine	of one	or loss	of pro	ofits incurred by	Phone R	diaries, vise. esult:	□ Y		No		Phone				
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476





October 17, 2014

JACOB KAMPLAIN
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: GISSLER B-3-1

Enclosed are the results of analyses for samples received by the laboratory on 10/16/14 9:56.

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/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 10/16/2014 Sampling Date: 10/15/2014
Reported: 10/17/2014 Sampling Type: Soil

Reported: 10/17/2014 Sampling Type: Soil

Project Name: GISSLER B-3-1 Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: BURNETT OIL CO

Sample ID: 5 PT. COMP @ 3' (H403167-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2014	ND	1.82	90.9	2.00	6.29	
Toluene*	<0.050	0.050	10/16/2014	ND	1.70	85.1	2.00	6.51	
Ethylbenzene*	<0.050	0.050	10/16/2014	ND	1.60	80.1	2.00	6.78	
Total Xylenes*	<0.150	0.150	10/16/2014	ND	4.74	79.0	6.00	7.31	
Total BTEX	<0.300	0.300	10/16/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 61-154							
Chloride, SM4500CI-B	oride, SM4500Cl-B mg/kg								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/16/2014	ND	416	104	400	3.92	
TPH 8015M	mg,	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/16/2014	ND	175	87.5	200	1.53	
DRO >C10-C28	<10.0	10.0	10/16/2014	ND	176	87.8	200	5.17	
EXT DRO >C28-C35	<10.0	10.0	10/16/2014	ND					
Surrogate: 1-Chlorooctane	: 1-Chlorooctane 93.3 % 47.2-1		7						
Surrogate: 1-Chlorooctadecane	105	% 52.1-170	6						

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 10/16/2014 Sampling Date: 10/15/2014

Reported: Sampling Type: Soil 10/17/2014

Project Name: GISSLER B-3-1 Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: **BURNETT OIL CO**

Sample ID: PT. 8 @ SURFACE (H403167-02)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2014	ND	1.82	90.9	2.00	6.29	
Toluene*	<0.050	0.050	10/16/2014	ND	1.70	85.1	2.00	6.51	
Ethylbenzene*	<0.050	0.050	10/16/2014	ND	1.60	80.1	2.00	6.78	
Total Xylenes*	<0.150	0.150	10/16/2014	ND	4.74	79.0	6.00	7.31	
Total BTEX	<0.300	0.300	10/16/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 61-154	!						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/16/2014	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/16/2014	ND	175	87.5	200	1.53	
DRO >C10-C28	<10.0	10.0	10/16/2014	ND	176	87.8	200	5.17	
EXT DRO >C28-C35	<10.0	10.0	10/16/2014	ND					
Surrogate: 1-Chlorooctane	92.0	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	103	% 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

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

Celeg D. Keine



Notes and Definitions

QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or

greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance

limits.

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

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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 Nam	ne: RECS									1	BI	LL TO						ANAI	YSIS	REQUEST		
Project Manag	er: JACOB KAMPLAIN							P	0.#										1	ILL GOLOT	T	T
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City: Hobbs	State: NM	Zi	p: 8	3824	0				ttn:					1				ü				
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FOR LAB USE ONLY		T	T	L		MATR	XIX			ESEF	RV.	SAMPLI	NG	5	PH	ш	ě			1 1		
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Relinquished By:	Determined recreating by California, regal	raiess of whether such of alm is based upon any of the above sta	ed reasons or otherwise.
itemiquisment by.	Date: / Receive	red By? //	Phone Result: ☐ Yes ☑ No Add'l Phone #:
11/1	10116100		Fax Result: ☐ Yes ☑ No Add'l Fax #:
11/1/	Time: 36	C. home	REMARKS:
Relinquished By:	Date: Receiv	ved By:	email results:
	Time:	U	hconder@rice-ecs.com; knorman@rice-ecs.com;
	Time.		jkamplain@rice-ecs.com; regans@rice-ecs.com; lflores@rice-ecs.com;
Delivered By: (Circle One)		Sample Condition CHECKED BY:	lweinheimer@rice-ecs.com; cursanic@rice-ecs.com
Sampler - UPS - Bus - Other:	2°C	Cool Intact (Intitials) Yes Yes No No No	environmental tech: @rice-ecs.com

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



November 12, 2014

LAURA FLORES
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: GISSLER B 3-1 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/06/14 16:20.

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/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY

LAURA FLORES 419 W. CAIN

HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 11/06/2014 Sampling Date: 11/06/2014

Reported: 11/12/2014 Sampling Type: Soil

Project Name: GISSLER B 3-1 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: IMPORTED TOP SOIL (H403429-01)

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	11/10/2014	ND	400	100	400	3.92	

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Celey D. Keine



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

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Celey D. Keine

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	505) 393-2326 FAX (505) 393-24								E	314	470	n				- 4	ANAL	YSIS	REQUES	1			\dashv
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Project Name: DO	Garden B-2-1 bothy	11					P	hone	#:				Chlorides	TPH 8015	BTEX	Texas TPH	Cations/Anions	TDS				-	
Sampler Name: Joshua Balcom							F	ax #:		_			를	I	B	X		-	- 1 1				
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Lab I.D. H4034249	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	ACID/BASE:	VICE/COOL	OTHER:	DATE 1/-6-19	TIME	V	/			Complete						
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393 2476



Appendix D Photo Documentation

Burnett Oil Co. Inc. Gissler B-3-1

Unit Letter B, Section 11, T17S, R30E



Initial release area, facing northwest

1/29/14



Initial release area, facing southwest

1/29/14



Overspray area, facing southwest

1/29/14



Initial release area, facing north

1/29/14



Hand auguring for depth, facing east





Using hydro-vac to line spot, facing north

5/21/14



Importing caliche, facing southwest

5/16/14



Scraping to 1 ft, facing northeast

5/27/14



Hydro-excavating near tanks, facing northwest 8/23/14



Backfilling scrape, facing northwest

8/21/14



Scraping to 1 ft, facing northeast

8/21/14



Excavating to 3 ft, facing north

8/25/14



Hydro-excavation to 1.5 ft completed, facing east 8/25/14



Hand shoveling release to 1 ft, facing northwest 9/26/14



Exporting soil, facing northeast

8/26/14



Scrape to 1 ft near tanks completed, facing west 9/26/14



Backfilling hydro-excavation, facing northwest 9/28/14



Hydro-excavation backfilled, facing southeast 9/29/14



Hand shoveling to 1 ft, facing west

9/28/14



Road scrape completed, facing northwest

9/29/14



Excavating to 3 ft, facing east





Excavating to 3 ft, facing south

10/7/14



Applying Micro-Blaze, facing north

10/6/14



Excavation to 3 ft completed, facing west

10/8/14



Scraping to 1 ft, facing northwest

10/9/14



Scrape completed, facing southeast

10/9/14



Backfilling scrape, facing west

10/9/14



Scrape backfilled, facing northeast



Installing berms, facing northeast

10/14/14



3 ft excavation backfilled, facing northeast

11/6/14



Backfilling 3 ft excavation, facing southwest 11/5/14



Road scrape backfilled, facing west

11/6/14



Spread soil amendments, facing west

11/14/14



Raking in the seed, facing south

11/14/14



Seeding site, facing southwest

11/14/14



11/14/14



Site seeded, facing southeast





Site seeded, facing southwest

11/14/14

Appendix E

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 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

Revised August 8, 2011

Form C-141

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

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

Release Notification and Corrective Action OPERATOR Initial Report Final Report Contact Leslie Garvis Name of Company Burnett Oil Co. Inc. Address 801 Cherry St, Unit #9, Fort Worth, TX 76102 817-583-8730 Telephone No. Facility Name Gissler B-3-1 Facility Type Tank Battery Surface Owner BLM Mineral Owner 3001504120 API No. LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County В 11 17S 30E 866 **FNL** 1847 FEL Eddy **Latitude** 32.854395 Longitude -103.939889 NATURE OF RELEASE Type of Release Oil Volume of Release 10 bbls Volume Recovered 0 bbls Source of Release Oil Tank Date and Hour of Occurrence Date and Hour of Discovery 1/18/14 1/18/14 12:12 pm 12:12 pm Was Immediate Notice Given? If YES, To Whom? ☐ Yes ☐ Not Required By Whom? Date and Hour Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* The oil tank inside the battery overflowed, releasing 10 barrels of oil. The release moved south through the battery pad, over the lease road and into the pasture over Holly Energy's ROW. The pad was scraped to remove the wet soil. The area in the pasture was covered with soil to help absorb the standing oil and protect livestock/wildlife. Describe Area Affected and Cleanup Action Taken.* The release affected 22,523 square feet of lease pad and pasture land. RECS personnel were on site beginning on January 29th, 2014. Six points within the release were sampled at the surface and with depth, and representative samples were taken to a commercial laboratory for analyses. Based on the field and laboratory analyses, a CAP was submitted to NMOCD and BLM on March 19th, 2014. BLM approved the CAP on March 20th, 2014, with the stipulation that Burnett had to address the remainder of the contamination at the site during facility abandonment. Based on a discussion with BLM, BLM approved beginning the CAP work on May 12th, 2014. Corrective actions began at the site on May 16th, 2014. A total of 336 cubic yards of caliche was imported to the site. The site was excavated in five portions. The release area in the road was scraped down to 1 ft bgs. A hydro-vac excavated the area outside the tank battery to 1.5 ft bgs. The area within the battery was excavated by hand shovel to a depth of 1.5 ft bgs. The remainder of the lease pad was scraped down to 1 ft bgs. Once these scrapes were completed, a bottom composite from each scrape, except for the road, was taken to a commercial laboratory for analyses. The area in the pasture was excavated to a depth of 3 ft bgs. Once the excavation was completed, wall samples and a 5 point bottom composite sample were taken to a commercial laboratory for analyses. The overspray to the north of the battery was washed with clean water and treated with Micro-Blaze. A total of 564 cubic yards of contaminated soil was taken to a NMOCD approved facility for disposal. A total of 268 cubic yards of top soil was imported to the site to serve as backfill in the pasture area. Point 7 and Point 8 were sampled at the surface to determine if contaminated soil existed in these areas. The samples were taken to a commercial laboratory, which confirmed constituent values at or near non-detectable levels. On October 20th, 2014, a request was sent to NMOCD and BLM to backfill the site. NMOCD approved the site to be backfilled on October 21st, 2014. The lease pad and battery were backfilled with the imported caliche, and the pasture was backfilled with the imported top soil. On November 14th, 2014, soil amendments were added to the pasture area, and this area was 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 OIL CONSERVATION DIVISION Signature: Printed Name: Leslie Garvis Approved by Environmental Specialist: Title: Regulatory Coordinator Approval Date: **Expiration Date:** lgarvis@burnettoil.com E-mail Address: Conditions of Approval: Attached 3/20/15 817-587-8730

Phone:

^{*} Attach Additional Sheets If Necessary