

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,

A handwritten signature in dark ink, appearing to read 'L. Weinheimer', with a stylized flourish at the end.

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

This figure is a detailed site map of a wellhead facility, overlaid with an aerial photograph. The map displays various infrastructure elements including pipelines, electrical lines, tanks, and storage areas. Six specific data points (Point 1 through Point 6) are highlighted, each with a corresponding table of sample data. The data tables provide concentrations for various hydrocarbons (GRO, DRO, B, T, E, X, BTEX) and other parameters (CI-, PID) at different depths (Surface, 6", 1', 1.5', 2', 2.5', 3', 3.5', 4').

Point 1

Sample Description	CI-	PID	GRO	DRO	B	T	E	X	BTEX
Surface	32	514.6	9790	34600	21.9	246	277	389	935
6"	<16	384.2	452	2100	0.463	6.49	9.46	16.2	32.6
1'	48	57.8	<10	112	<0.05	<0.05	0.179	0.404	0.583
1.5'	80		<10	57.6	<0.05	<0.05	0.14	0.263	0.403

Point 2

Sample Description	CI-	PID	GRO	DRO	B	T	E	X	BTEX
Surface	6160	640.9	7580	51200	<10	78.1	161	255	494
6"	2106	788.9							
1'	8260	888.1	6580	17000	14.5	144	155	210	524
1.5'	4025	604.2							
2'	3348	230.4							
2.5'	2058	143.7							
3'	581	108.8							
3.5'	203	103.6							
4'	179	123.7							
4.5'	144	144.8	<10	33.1	<0.05	<0.05	0.054	<0.15	<0.3

Point 3

Sample Description	CI-	PID	GRO	DRO	B	T	E	X	BTEX
Surface	8500	322.1	848	8910	1.04	13.4	20.4	35.7	70.6
6"	1100	17.8	33	471	<0.05	0.681	1.43	2.16	4.27
1'	240	15.7	<10	17.9	<0.05	0.185	0.224	0.295	0.704

Point 4

Sample Description	CI-	PID	GRO	DRO	B	T	E	X	BTEX
Surface	34000	6.3	<10	96.3	<0.05	0.052	<0.05	<0.15	<0.3
6"	5680	1.7	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
1'	4960	1.5	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
1.5'	1136	1.1							
2'	263	1							
2.5'	208	0.3	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
3'	208	0.4	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3

Point 5

Sample Description	CI-	PID	GRO	DRO	B	T	E	X	BTEX
Surface	16400	397.2	119	1050	<0.2	1.15	3.55	7.16	11.9
6"	7432	599.8							
1'	3537	830.9							
1.5'	2099	1016							
2'	6283	1094							
2.5'	1097	185.9							
3'	1010	60.4							
3.5'	864	95.2	<100	4070	0.067	1.29	1.4	3.23	5.99
4'	688	23.9	<100	4420	<0.05	0.083	0.116	0.234	0.433

Point 6

Sample Description	CI-	PID	GRO	DRO	B	T	E	X	BTEX
Surface	96	5.6	<10	348	<0.05	0.095	0.083	<0.15	0.359
6"	64	3.9	<10	40	<0.05	<0.05	<0.05	<0.15	<0.3
1'	64	4.2	<10	51.1	<0.05	<0.05	<0.05	<0.15	<0.3




Legend

- CEMENT POST
- CONTROL BOX
- DEADMAN
- ELECTRIC POLE
- ELECTRICAL BOX
- LIGHT POLE
- MARKING PLATE
- SAMPLE POINT
- WELLHEAD
- WIND VANE
- PIPE END
- RISER
- SURFACE PIPELINE
- OVERHEAD ELECTRIC LINE
- BURIED ELECTRIC
- SURFACE ELECTRIC
- ELECTRICAL PANEL
- BURIED PIPELINE
- LINEFINDER HIT
- RISER
- PAD/ROAD EDGE
- SURFACE PIPELINE
- TANK
- BATTERY
- FLARE TOWER BASE
- FRAC TANK
- PUMP
- PUMPJACK
- STAIN (22,523 sq ft with 5,503 sq ft in overspray)

CI- FIELD DATA
CI- LAB DATA

Landowner: BLM
DGW: 80 FT

Source: Esri, DigitalGlobe, GeoEye, AeroGRID, IGN, etc.

	<p><i>BURNETT OIL CO.</i> <i>GISSLER B-3-1</i></p> <p>LEGALS: UL/B sec. 11 T-17-S R-30-E EDDY COUNTY, NM</p>	<p>Figure 1</p>   <p>GPS date: 5/27/14 JB, 8/21/14 KS Drawing date: 8/25/14 Drafted by: B. Cooper, T. Grieco</p>
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Excavation Data

	Cl-	PID	GRO	DRO	B	T	E	X	BTEX
5 Pt Bottom Comp @ 1 ft - Inside Battery	1360	1123	475	3670	<0.2	2.65	4.16	12.2	19
5 Pt Bottom Comp @ 1 ft Excavation	400	5.9	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
3 Pt Bottom Comp @ 1.5 ft	16	1.8	<10	10.3	<0.05	<0.05	<0.05	<0.15	<0.3

Point 7

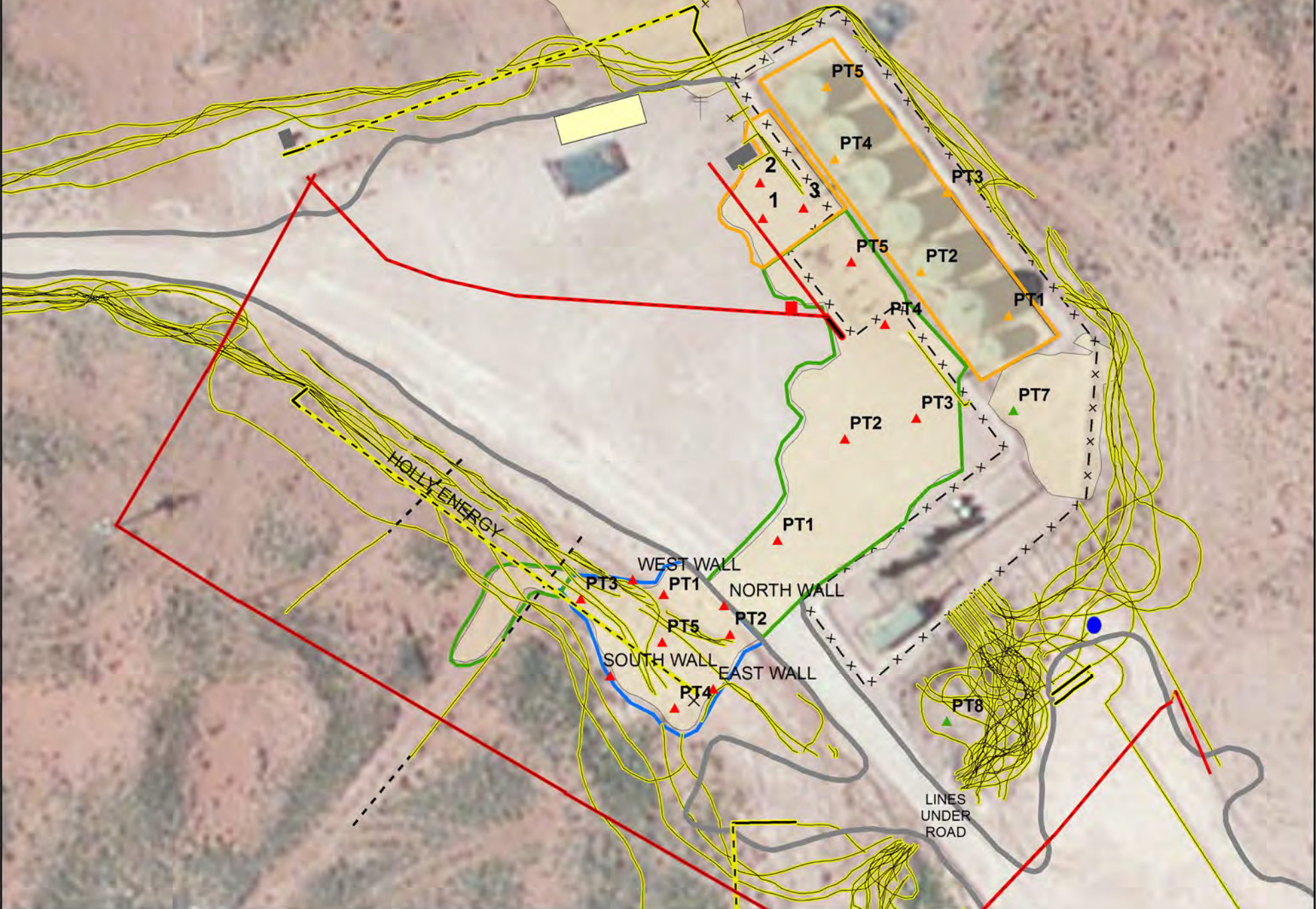
	Cl-	PID	GRO	DRO	B	T	E	X	BTEX
Surface	<16	747	<10	196	<0.05	<0.05	<0.05	<0.15	<0.3

Excavation at 3ft

	Cl-	PID	GRO	DRO	EXT DRO	B	T	E	X	BTEX
North wall	560	7	<10	<10		<0.05	<0.05	<0.05	<0.15	<0.3
South Wall	<16	6.7	<10	<10		<0.05	<0.05	<0.05	<0.15	<0.3
West Wall	<16	2.1	<10	<10		<0.05	<0.05	<0.05	<0.15	<0.3
East Wall	192	19.1	<10	<10		<0.05	<0.05	<0.05	<0.15	<0.3
5 Pt Bottom Comp	<16	10.1	<10	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3

Point 8

	Cl-	GRO	DRO	EXT DRO	B	T	E	X	BTEX
Surface	<16	<10	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3



Legend

- ▲ FINAL SAMPLE POINT
 - ▲ FINAL BATTERY SAMPLE POINT
 - ▲ SURFACE SAMPLE
 - × PIPE END
 - ⋈ ELECTRIC POLE
 - ELECTRICAL BOX
 - × PETROLEUM PIPELINE
- OVERHEAD ELECTRIC LINE
 - BURIED ELECTRIC LINE
 - SURFACE ELECTRIC LINE
 - ELECTRICAL PANEL
 - BURIED PIPELINE
 - - - LINEFINDER HIT
 - RISER
 - PAD/ROAD EDGE
 - SURFACE PIPELINE
- 1 FT SCRAPE
 - 1.5 FT SCRAPE
 - 3 FT SCRAPE
 - TANK
 - BATTERY
 - FRAC TANK
 - PUMP
 - STAIN (22,523 sq ft with 5,503 sq ft in overspray)

Landowner: BLM
DGW: 80 FT

CI- FIELD DATA
CI- LAB DATA

CNES/Airbus DS, USDA, USGS, AEX, er Community



BURNETT OIL CO.
GISSLER B-3-1

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

Figure 2



0 25 50
Feet

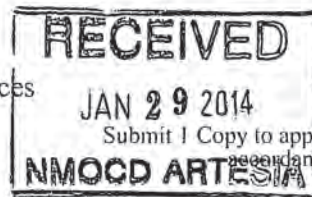
GPS date: 8/21/14 KS, 9/25/14 KH, 10/9/14 KS
Drawing date: 10/16/14
Drafted by: L. Weinheimer

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.
Santa Fe, NM 87505



Form C-141
Revised August 8, 2011

Release Notification and Corrective Action

nMLB/406342981

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Burnett Oil Co. Inc. <u>3080</u>	Contact	Shawna Matthews
Address	P.O. Box 188, Loco Hills, NM 88255	Telephone No.	(575) 322-7213
Facility Name	Gissler B-3-1	Facility Type	Tank Battery
Surface Owner	BLM	Mineral Owner	
		API No.	3001504120

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	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	1/18/14 12:12 pm	Date and Hour of Discovery	1/18/14 12:12 pm
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?		Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

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 site will be assessed and then remediated to NMOCD and BLM regulations.

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

Signature:	<u>Shawna Matthews</u>
Printed Name:	Shawna Matthews
Title:	Production Technician
E-mail Address:	smatthews@burnettoil.com
Date:	1/29/14
Phone:	(575) 322-7213

OIL CONSERVATION DIVISION

Signed By Mike Deane
Approved by Environmental Specialist:

Approval Date: 1/29/14

Expiration Date: N/A

Conditions of Approval:
Remediation per OCD Rule 8,
Guidelines. **SUBMIT REMEDIATION
PROPOSAL NO LATER THAN:**
4/4/14

Attached ☐

* Attach Additional Sheets If Necessary

2PP-2180

Appendix B

Initial Sampling Labs

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

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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:	GRISLER B 3-1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	NOT GIVEN		

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

BTX 8021B		mg/kg		Analyzed 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 BTX	935	60.0	02/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/12/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 1600 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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:	GRISLER 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		Analyzed 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 % 89.4-126

Chloride, SM4500CI-B			mg/kg					Analyzed 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		Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 1220 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/06/2014
Reported: 02/12/2014
Project Name: GRISSLER B 3-1 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 01/29/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Amanda Ponce

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

BTX 8021B		mg/kg		Analyzed 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 BTX	70.6	6.00	02/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 148 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8500	16.0	02/12/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 236 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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:	GRISLER B 3-1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	NOT GIVEN		

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

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	02/11/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	34000	16.0	02/12/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 02/06/2014
 Reported: 02/12/2014
 Project Name: GRISSLER B 3-1 BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 01/29/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Amanda Ponce

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

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
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 BTX	11.9	1.20	02/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 198 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16400	16.0	02/12/2014	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	119	10.0	02/11/2014	ND	214	107	200	0.383	
DRO >C10-C28	1050	10.0	02/11/2014	ND	198	99.1	200	3.57	

Surrogate: 1-Chlorooctane 131 % 65.2-140

Surrogate: 1-Chlorooctadecane 164 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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:	GRISLER 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)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	0.359	0.300	02/11/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/12/2014	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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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

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Celey D. Keene, Lab Director/Quality Manager



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Page 9 of 9

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



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

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/11/2014
Reported: 02/14/2014
Project Name: GRISSLER B 3-1 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/11/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

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

BTX 8021B		mg/kg		Analyzed 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 BTX	5.99	0.300	02/13/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 169 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	02/14/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 199 % 63.6-154

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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:	02/11/2014	Sampling Date:	02/11/2014
Reported:	02/14/2014	Sampling Type:	Soil
Project Name:	GRISLER 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 @ 4' (H400418-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	0.433	0.300	02/13/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	02/14/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 210 % 63.6-154

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Analytical Results For:

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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:	GRISLER 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		Analyzed 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 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/14/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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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: 02/11/2014
 Reported: 02/14/2014
 Project Name: GRISSLER B 3-1 BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 02/11/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

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

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	02/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/14/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 121 % 63.6-154

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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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Relinquished By: <i>Kyle Schwaide</i>		Date: <i>2-11-14</i>	Received By: <i>Bathy Perz</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:		Time: <i>4:24</i>		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)		Date:	Received By:	REMARKS:	
Sampler - UPS - Bus - Other:		Time:		email results	
4.4°C				Knorman@rice-ecs.com	
		Sample Condition Cool Intact	CHECKED BY: (Initials)	Kjones@riceswd.com; jkamplain@rice-ecs.com	
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<i>KP</i>	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com	
		<input type="checkbox"/> Yes <input type="checkbox"/> No		<i>Kschwaide@rice-ecs.com</i>	

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

#52

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/11/2014
Reported: 02/18/2014
Project Name: GRISSLER B 3-1 BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/06/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

BTX 8021B		mg/kg		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 BTX	32.6	1.20	02/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 178 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP				S-04	
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		Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.4 % 63.6-154

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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:	02/11/2014	Sampling Date:	02/06/2014
Reported:	02/18/2014	Sampling Type:	Soil
Project Name:	GRISLER 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' (H400419-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	0.583	0.300	02/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/14/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 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:	GRISLER 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		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 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/14/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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 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:	GRISLER 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		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 % 89.4-126

Chloride, SM4500CI-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		Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 73.4 % 63.6-154

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JACOB KAMPLAIN
419 W. CAIN
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Fax To: (575) 397-1471

Received:	02/11/2014	Sampling Date:	02/06/2014
Reported:	02/18/2014	Sampling Type:	Soil
Project Name:	GRISLER 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)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	02/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/14/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/12/2014	ND	204	102	200	11.4	
DRO >C10-C28	33.1	10.0	02/12/2014	ND	192	96.2	200	12.4	

Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 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:	GRISLER 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)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	4.27	0.300	02/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	02/14/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.7 % 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:	GRISLER 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)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	0.704	0.300	02/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 89.4-126

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/14/2014	ND	400	100	400	3.92	

TPH 8015M			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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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:	GRISLER 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		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 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.8 % 63.6-154

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 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:	GRISLER 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)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	02/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	02/14/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.9 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Relinquished By: <u>Lyle Schmeidt</u> Date: <u>2-11-14</u> Time: <u>4:24</u>					Received By: <u>[Signature]</u> Date: _____ Time: _____					Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #: _____ REMARKS: email results Knorman@rice-ecs.com KJones@riceswd.com; jkamplain@rice-ecs.com hconder@rice-ecs.com; Lweinheimer@rice-ecs.com KSchmeidt@rice-ecs.com				
Relinquished By: _____ Date: _____ Time: _____					Received By: _____ Date: _____ Time: _____									
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____					Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No					CHECKED BY: <u>[Signature]</u> (Initials)				

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

#54

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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:	GRISLER 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		Analyzed 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 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/04/2014	ND	448	112	400	11.3	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.0 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
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:	GRISLER 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 @ 3' (H400559-02)

BTEx 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 61.3-142
Surrogate: Toluene-d8 100 % 71.3-129
Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	03/04/2014	ND	448	112	400	11.3		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 65.2-140
Surrogate: 1-Chlorooctadecane 96.3 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

Appendix C

Site Remediation Labs

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

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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		Analyzed 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	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Page 4 of 4

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AS4

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



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:	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)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	09/26/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

† 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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



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:	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)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	09/29/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/29/2014	ND	384	96.0	400	8.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

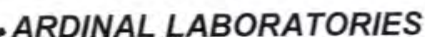
Cardinal Laboratories

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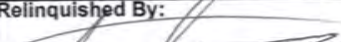



Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Relinquished By: 		Date: 9/26/14	Received By: Jodi Benson	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
		Time: 4:25		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS: RUSH!!	
		Time:		email results: hconder@rice-ecs.com; knorman@rice-ecs.com; jkamplain@rice-ecs.com; regans@rice-ecs.com; lflores@rice-ecs.com; lweinheimer@rice-ecs.com; cursanic@rice-ecs.com environmental tech: jbalcom@rice-ecs.com	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 2.4%			Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials) 	

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

#54



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

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	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)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	09/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	09/30/2014	ND	384	96.0	400	8.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**CARDINAL LABORATORIES**

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: RECS				BILL TO				ANALYSIS REQUEST																	
Project Manager: Laura Flores /				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div>Chlorides</div> <div>TPH 8015 M</div> <div>BTEX</div> <div>Texas TPH</div> <div>Complete Cations/Anions</div> <div>TDS</div> </div>																	
Address: 419 W Cain				Company:																					
City: Hobbs		State: NM Zip: 88240		Attn:																					
Phone #:		Fax #:		Address:																					
Project #:		Project Owner:		City:																					
Project Name: Burnett oil co.				State: Zip:																					
Project Location: Gissler B-3-1 Battery				Phone #:																					
Sampler Name: Joshua Balcom				Fax #:																					
FOR LAB USE ONLY																									
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING											
								GROUNDWATER																	
								WASTEWATER																	
								SOIL																	
								OIL																	
								SLUDGE																	
								OTHER :																	
								ACID/BASE:																	
								ICE / COOL																	
								OTHER :																	
												DATE		TIME											
												9-26-14		1:05											

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Relinquished By:		Date: 9/29/14		Received By:		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:	
Time: 3:30						Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS: email results: hconder@rice-ecs.com; knorman@rice-ecs.com; jkamplain@rice-ecs.com; regans@rice-ecs.com; lflores@rice-ecs.com; lweinheimer@rice-ecs.com; cursanic@rice-ecs.com environmental tech: jbalcom@rice-ecs.com			
Time:									
Delivered By: (Circle One)				Sample Condition		CHECKED BY: (Initials)			
Sampler - UPS - Bus - Other:				Cool Intact		cok			
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No					

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#54

Rush



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

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
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)

BTX 8021B		mg/kg		Analyzed 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	0.200	09/30/2014	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 BTX	19.0	1.20	09/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1360	16.0	09/30/2014	ND	384	96.0	400	8.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	475	100	09/30/2014	ND	190	94.8	200	2.35		
DRO >C10-C28	3670	100	09/30/2014	ND	208	104	200	2.12		

Surrogate: 1-Chlorooctane 151 % 65.2-140

Surrogate: 1-Chlorooctadecane 165 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

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

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
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		Analyzed 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		Analyzed 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		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/09/2014	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 96.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 101 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
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: SOUTH WALL 3' EXCAVATION (H403081-02)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	10/09/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/09/2014	ND	416	104	400	0.00		

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

Surrogate: 1-Chlorooctadecane 99.6 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 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)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	10/09/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/09/2014	ND	416	104	400	0.00		

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

Surrogate: 1-Chlorooctadecane 105 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
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)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	10/10/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/09/2014	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 % 47.2-157

Surrogate: 1-Chlorooctadecane 102 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Relinquished By: <i>Kyle Schmidt</i>		Date: <i>10-8-14</i> Time: <i>4:03</i>	Received By: <i>J. J. J. J. J.</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No REMARKS:
Relinquished By:		Date:	Received By:	email results: hconder@rice-ecs.com; knorman@rice-ecs.com; jkamplain@rice-ecs.com; regans@rice-ecs.com; lflores@rice-ecs.com; lweinheimer@rice-ecs.com; cursanic@rice-ecs.com environmental tech: @rice-ecs.com
Delivered By: (Circle One)		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <i>5.4°</i> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) <i>DP</i>	
Sampler - UPS - Bus - Other:				

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

#54



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

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
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
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)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	10/16/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2014	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/16/2014	ND	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 93.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 105 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 10/16/2014
Reported: 10/17/2014
Project Name: GISSLER B-3-1
Project Number: NONE GIVEN
Project Location: BURNETT OIL CO

Sampling Date: 10/15/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

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

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	10/16/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2014	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/16/2014	ND	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 % 47.2-157

Surrogate: 1-Chlorooctadecane 103 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

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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Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5

[illegible]

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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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



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, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/10/2014	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

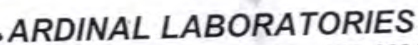
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Page 4 of 4

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#54

Appendix D

Photo Documentation

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

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

Unit Letter B, Section 11, T17S, R30E



Initial release area, facing northwest

1/29/14



Overspray area, facing southwest

1/29/14



Initial release area, facing southwest

1/29/14



Initial release area, facing north

1/29/14



Hand auguring for depth, facing east 2/11/14



Importing caliche, facing southwest 5/16/14



Using hydro-vac to line spot, facing north 5/21/14



Scraping to 1 ft, facing northeast 5/27/14



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



Scraping to 1 ft, facing northeast
8/21/14



Backfilling scrape, facing northwest
8/21/14



Excavating to 3 ft, facing north
8/25/14



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



Exporting soil, facing northeast
8/26/14



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



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



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



Hand shoveling to 1 ft, facing west 9/28/14



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



Road scrape completed, facing northwest 9/29/14



Excavating to 3 ft, facing east

10/6/14



Applying Micro-Blaze, facing north

10/6/14



Excavating to 3 ft, facing south

10/7/14



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

10/9/14



Installing berms, facing northeast

10/14/14



Backfilling 3 ft excavation, facing southwest

11/5/14



3 ft excavation backfilled, facing northeast

11/6/14



Road scrape backfilled, facing west

11/6/14



Spread soil amendments, facing west 11/14/14



Seeding site, facing southwest 11/14/14



Raking in the seed, facing south 11/14/14



Site seeded, facing south 11/14/14



Site seeded, facing southeast

11/14/14



Site seeded, facing southwest

11/14/14

Appendix E

Final C-141

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

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Burnett Oil Co. Inc.	Contact Leslie Garvis
Address 801 Cherry St, Unit #9, Fort Worth, TX 76102	Telephone No. 817-583-8730
Facility Name Gissler B-3-1	Facility Type Tank Battery

Surface Owner BLM	Mineral Owner	API No. 3001504120
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LOCATION OF RELEASE

Unit Letter B	Section 11	Township 17S	Range 30E	Feet from the 866	North/South Line FNL	Feet from the 1847	East/West Line FEL	County Eddy
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Latitude 32.854395 Longitude -103.939889

NATURE OF RELEASE

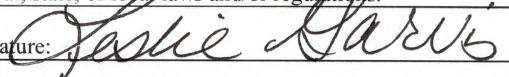
Type of Release Oil	Volume of Release 10 bbls	Volume Recovered 0 bbls
Source of Release Oil Tank	Date and Hour of Occurrence 1/18/14 12:12 pm	Date and Hour of Discovery 1/18/14 12:12 pm
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* 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.

Signature: 	OIL CONSERVATION DIVISION		
Printed Name: Leslie Garvis	Approved by Environmental Specialist:		
Title: Regulatory Coordinator	Approval Date:	Expiration Date:	
E-mail Address: lgarvis@burnettoil.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 3/20/15	Phone: 817-587-8730		

* Attach Additional Sheets If Necessary