

November 3rd, 2014

Mike Bratcher

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

**RE: Corrective Action Plan
Burnett Oil Co. Gissler A-2 Battery (2RP-2233)
UL/J sec. 14 T17S R30E
API No. 30-015-33498**

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 2.5 miles northeast of Loco Hills, New Mexico. The initial C-141 states that the site is located in UL/J. However, the release also extends into UL/O of sec. 14 T17S R30E. Based on RECS soil bore installations near the site, it can be deduced that the Gissler A-2 Battery is in an area of no groundwater (Figure 1).

On March 20th, 2014, a plugged water line caused water to flow into the oil tank; consequently, the oil tank overflowed. A total of 230 barrels of oil were released over 4,609 square feet of battery pad and 8,299 square feet of pasture land. Vacuum trucks were called to the site and recovered 210 barrels of oil. NMOCD and BLM were notified of the release on March 20th, 2014, and an initial C-141 was sent to NMOCD and BLM for their approval. NMOCD approved the initial C-141 on March 31st, 2014 (Appendix A).

RECS personnel were on site beginning on March 20th, 2014 to assess the release. The release was photographed and GPS mapped. Eight samples points were sampled from within the release at the surface and with depth (Figure 2). All soil samples were field tested for chlorides and organic vapors. Representative samples from each sample point were taken to a commercial laboratory for analysis (Appendix B).

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

Corrective Action Plan

Based on the laboratory analysis of the release, the site will be excavated in seven sections (Figure 3). The release area in the battery will be scraped down 6 inches to 1 foot bgs. To

protect tank stability and personnel safety, the scrape will not extend past this depth. Once the scrape is completed, a 5 point bottom composite will be taken and field tested for chlorides and organic vapors. The composite will then be taken to a commercial laboratory for analysis. On facility abandonment, the remainder of the contamination at the battery pad will be addressed.

The areas around Point 3, Point 4 and Point 8 will be scraped down to 1 ft bgs. The area around Point 5 will be scraped down to 1.5 ft bgs and the area around Point 7 will be scraped down to 3 ft bgs. The release area in the road will be scraped down to 6 inches bgs. Once the scrape is completed, a sample will be taken from the bottom of the scrape and field tested for chlorides and organic vapors. If field testing indicates that the sample will return chloride, GRO, DRO and BTEX readings below regulatory standards, the sample will be taken to a commercial laboratory for analysis. If field testing does not show that all constituents will be below regulatory standards, the scrape will be deepened until field testing shows that all constituents will be below regulatory standards, or the depth of the scrape will impede vehicular traffic.

The area around Point 6, where the oil pooled, will be excavated to a depth of 4 ft bgs. Once the scrape is completed, the walls of the excavation will be sampled and field tested for chlorides and organic vapors. If field testing indicates that the samples will return chloride, GRO, DRO and BTEX readings below regulatory standards, the samples will be taken to a commercial laboratory for analysis. If field testing does not show that all constituents in the wall samples will be below regulatory standards, the walls of the excavation will be expanded until field testing indicates that laboratory analysis of the walls will return constituents below regulatory standards. At the base of the excavation, a 20-mil reinforced poly liner will be installed and properly seated.

All excavated soil will be taken to a NMOCD approved facility for disposal. Clean caliche will be imported to the site to serve as backfill for the battery pad and the caliche road. Clean top soil will be imported to the site to serve as backfill for the pasture. Samples of both the caliche and top soil will be taken to a commercial laboratory to confirm that their chloride values are below regulatory standards. The battery pad and pasture will be backfilled with the imported soils and contoured to the surrounding location. The disturbed areas in the pasture will then be seeded with a blend of native vegetation.

Once these activities have been completed, a final report will be submitted to NMOCD and BLM requesting 'remediation termination' and site closure.

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.W.', followed by a long, horizontal, wavy line.

Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

Attachments:

Figure 1 – Depth to Groundwater

Figure 2 – Initial Sampling Data

Figure 3 – Proposed Corrective Actions

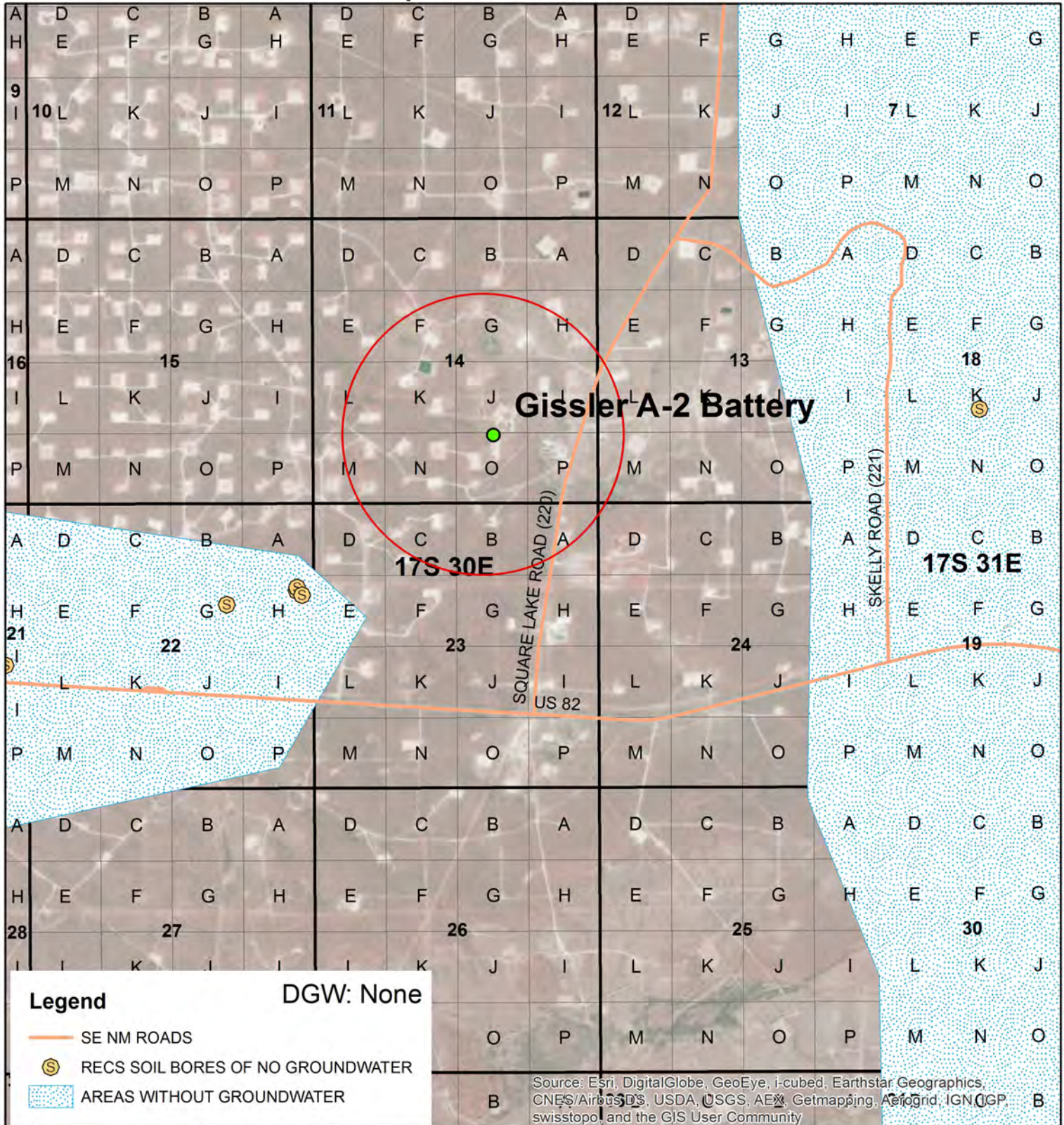
Appendix A – Initial C-141

Appendix B – Initial Sampling Labs

Appendix C – Photo Documentation

Figures

Depth to Groundwater



BURNETT GISSLER
A-2 BATTERY

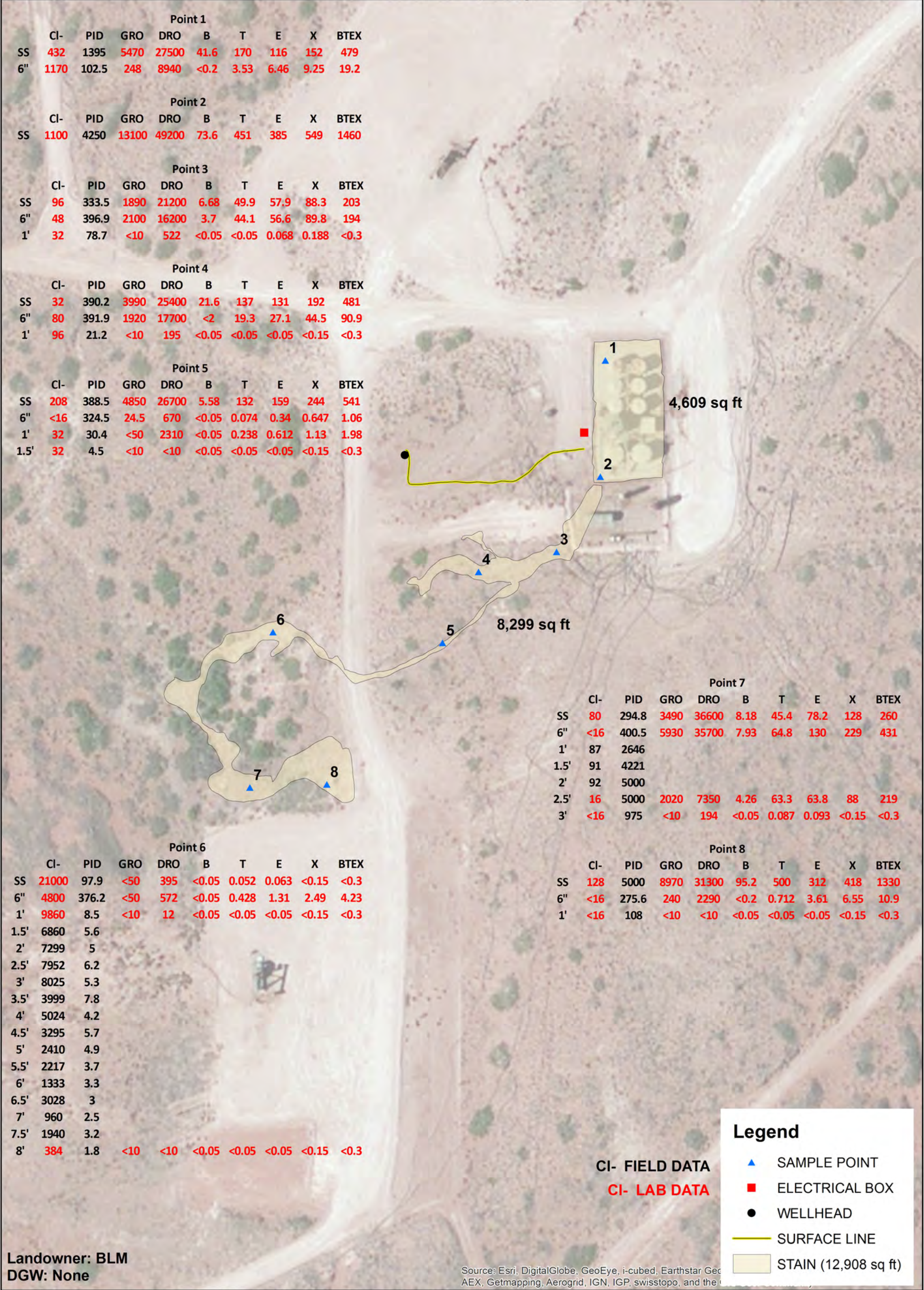
**LEGALS: UL/ J & O sec. 14
T-17-S R-30-E
EDDY COUNTY, NM**

Figure 1

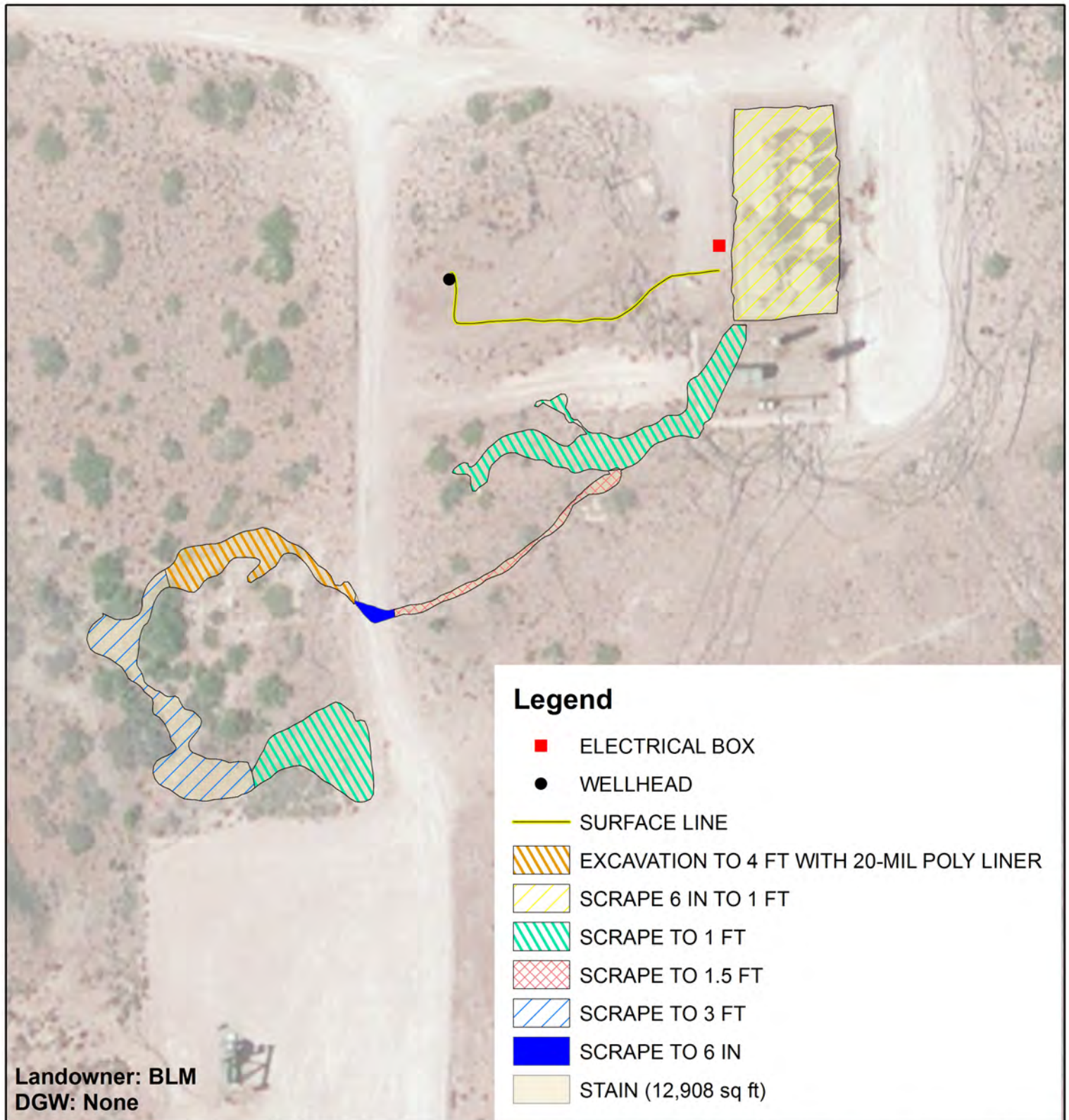


Drawing date: 10/8/14
Drafted by: L. Weinheimer

Initial Sampling Data



Proposed Corrective Actions



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 87418
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

RECEIVED

MAR 24 2014

NMOCD ARTESIA

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

nHMP1409023168

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Burnett Oil Co., Inc.	3080	Contact	Shawna Matthews
Address	87 Square Lake Rd., Loco Hills, NM 88255		Telephone No.	(575) 219-6370
Facility Name	Gissler A-2 Battery		Facility Type	Battery

Surface Owner	BLM	Mineral Owner		API No.	30-015-33498
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	14	17S	30E	1422	FSL	1705	FEL	Eddy

Latitude 32.831215 Longitude -103.939486

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	230 bbls	Volume Recovered	210 bbls
Source of Release	Oil tank	Date and Hour of Occurrence	3/20/14	Date and Hour of Discovery	3/20/14 7:00 am
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required				
By Whom?	Jacob Kamplain - RECS	If YES, To Whom?	Mike Bratcher - NMOCD; Mike Burton - BLM		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
	Date and Hour 3/20/14 11:22 am				
	If YES, Volume Impacting the Watercourse.				

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

The water line plugged up and the water ran into the oil tank causing it to overflow. Vacuum trucks were called out to the site and removed the standing oil.

Describe Area Affected and Cleanup Action Taken.*

A total of 12,908 square feet of bermed battery, lease road and pasture land was affected by the release. The site will be remediated per NMOCD and BLM guidelines.

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

Signature: <i>Shawna Matthews</i>	OIL CONSERVATION DIVISION	
Printed Name: Shawna Matthews	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Senior Production Technician	Approval Date: 3-31-14	Expiration Date: NA
E-mail Address: smatthews@burnettoil.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: Phone: (575) 219-6370	Remediation per OCD Rule & Guidelines. SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 5-1-14	

* Attach Additional Sheets If Necessary

2RP-2233

Appendix B

Initial Sampling Labs

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

April 02, 2014

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: GISSLER A-2

Enclosed are the results of analyses for samples received by the laboratory on 03/26/14 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
JACOB KAMPLAIN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 397-1471

Received: 03/26/2014
Reported: 04/02/2014
Project Name: GISSLER A-2
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/26/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PT. 1 @ SURFACE (H400911-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	41.6	5.00	04/01/2014	ND	2.28	114	2.00	8.45	
Toluene*	170	5.00	04/01/2014	ND	2.18	109	2.00	8.38	
Ethylbenzene*	116	5.00	04/01/2014	ND	2.13	106	2.00	8.60	
Total Xylenes*	152	15.0	04/01/2014	ND	6.26	104	6.00	7.23	
Total BTX	479	30.0	04/01/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	432	16.0	04/02/2014	ND	416	104	400	3.77	

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	5470	100	03/31/2014	ND	222	111	200	9.86		
DRO >C10-C28	27500	100	03/31/2014	ND	198	99.0	200	1.31		

Surrogate: 1-Chlorooctane 198 % 65.2-140

Surrogate: 1-Chlorooctadecane 753 % 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: 03/26/2014
Reported: 04/02/2014
Project Name: GISSLER A-2
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/26/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PT. 2 @ SURFACE (H400911-02)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	73.6	10.0	04/01/2014	ND	2.28	114	2.00	8.45	
Toluene*	451	10.0	04/01/2014	ND	2.18	109	2.00	8.38	
Ethylbenzene*	385	10.0	04/01/2014	ND	2.13	106	2.00	8.60	
Total Xylenes*	549	30.0	04/01/2014	ND	6.26	104	6.00	7.23	
Total BTX	1460	60.0	04/01/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 131 % 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	04/02/2014	ND	416	104	400	3.77	

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	13100	100	03/31/2014	ND	222	111	200	9.86	
DRO >C10-C28	49200	100	03/31/2014	ND	198	99.0	200	1.31	

Surrogate: 1-Chlorooctane 497 % 65.2-140

Surrogate: 1-Chlorooctadecane 1260 % 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: 03/26/2014
Reported: 04/02/2014
Project Name: GISSLER A-2
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/26/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PT. 3 @ SURFACE (H400911-03)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	6.68	2.00	04/01/2014	ND	2.28	114	2.00	8.45	
Toluene*	49.9	2.00	04/01/2014	ND	2.18	109	2.00	8.38	
Ethylbenzene*	57.9	2.00	04/01/2014	ND	2.13	106	2.00	8.60	
Total Xylenes*	88.3	6.00	04/01/2014	ND	6.26	104	6.00	7.23	
Total BTX	203	12.0	04/01/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 138 % 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	04/02/2014	ND	416	104	400	3.77	

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	1890	100	03/31/2014	ND	222	111	200	9.86	
DRO >C10-C28	21200	100	03/31/2014	ND	198	99.0	200	1.31	

Surrogate: 1-Chlorooctane 160 % 65.2-140

Surrogate: 1-Chlorooctadecane 675 % 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: 03/26/2014
 Reported: 04/02/2014
 Project Name: GISSLER A-2
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/26/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 4 @ SURFACE (H400911-04)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	21.6	5.00	04/01/2014	ND	2.28	114	2.00	8.45	
Toluene*	137	5.00	04/01/2014	ND	2.18	109	2.00	8.38	
Ethylbenzene*	131	5.00	04/01/2014	ND	2.13	106	2.00	8.60	
Total Xylenes*	192	15.0	04/01/2014	ND	6.26	104	6.00	7.23	
Total BTX	481	30.0	04/01/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 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	32.0	16.0	04/02/2014	ND	416	104	400	3.77	

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	3990	100	03/31/2014	ND	222	111	200	9.86	
DRO >C10-C28	25400	100	03/31/2014	ND	198	99.0	200	1.31	

Surrogate: 1-Chlorooctane 218 % 65.2-140

Surrogate: 1-Chlorooctadecane 752 % 63.6-154

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 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 03/26/2014
 Reported: 04/02/2014
 Project Name: GISSLER A-2
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/26/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 5 @ SURFACE (H400911-05)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	5.58	5.00	04/01/2014	ND	2.28	114	2.00	8.45	
Toluene*	132	5.00	04/01/2014	ND	2.18	109	2.00	8.38	
Ethylbenzene*	159	5.00	04/01/2014	ND	2.13	106	2.00	8.60	
Total Xylenes*	244	15.0	04/01/2014	ND	6.26	104	6.00	7.23	
Total BTX	541	30.0	04/01/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 140 % 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	208	16.0	04/02/2014	ND	416	104	400	3.77	

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	4850	100	03/31/2014	ND	222	111	200	9.86	
DRO >C10-C28	26700	100	03/31/2014	ND	198	99.0	200	1.31	

Surrogate: 1-Chlorooctane 265 % 65.2-140

Surrogate: 1-Chlorooctadecane 680 % 63.6-154

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*=Accredited Analyte

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Analytical Results For:

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

Received:	03/26/2014	Sampling Date:	03/26/2014
Reported:	04/02/2014	Sampling Type:	Soil
Project Name:	GISSLER A-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 6 @ SURFACE (H400911-06)

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	04/01/2014	ND	2.28	114	2.00	8.45	
Toluene*	0.052	0.050	04/01/2014	ND	2.18	109	2.00	8.38	
Ethylbenzene*	0.063	0.050	04/01/2014	ND	2.13	106	2.00	8.60	
Total Xylenes*	<0.150	0.150	04/01/2014	ND	6.26	104	6.00	7.23	
Total BTEx	<0.300	0.300	04/01/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	21000	16.0	04/02/2014	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	03/31/2014	ND	222	111	200	9.86	
DRO >C10-C28	395	50.0	03/31/2014	ND	198	99.0	200	1.31	

Surrogate: 1-Chlorooctane 92.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 154 % 63.6-154

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*=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: 03/26/2014
 Reported: 04/02/2014
 Project Name: GISSLER A-2
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/26/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 7 @ SURFACE (H400911-07)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.18	2.00	04/01/2014	ND	2.28	114	2.00	8.45	
Toluene*	45.4	2.00	04/01/2014	ND	2.18	109	2.00	8.38	
Ethylbenzene*	78.2	2.00	04/01/2014	ND	2.13	106	2.00	8.60	
Total Xylenes*	128	6.00	04/01/2014	ND	6.26	104	6.00	7.23	
Total BTX	260	12.0	04/01/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 152 % 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	04/02/2014	ND	416	104	400	3.77	

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	3490	100	03/31/2014	ND	222	111	200	9.86	
DRO >C10-C28	36600	100	03/31/2014	ND	198	99.0	200	1.31	

Surrogate: 1-Chlorooctane 259 % 65.2-140

Surrogate: 1-Chlorooctadecane 1090 % 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: 03/26/2014
Reported: 04/02/2014
Project Name: GISSLER A-2
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/26/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PT. 8 @ SURFACE (H400911-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	95.2	10.0	04/01/2014	ND	2.28	114	2.00	8.45	
Toluene*	500	10.0	04/01/2014	ND	2.18	109	2.00	8.38	
Ethylbenzene*	312	10.0	04/01/2014	ND	2.13	106	2.00	8.60	
Total Xylenes*	418	30.0	04/01/2014	ND	6.26	104	6.00	7.23	
Total BTEX	1330	60.0	04/01/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 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	128	16.0	04/02/2014	ND	416	104	400	3.77		

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	8970	100	03/31/2014	ND	222	111	200	9.86	
DRO >C10-C28	31300	100	03/31/2014	ND	198	99.0	200	1.31	

Surrogate: 1-Chlorooctane 277 % 65.2-140

Surrogate: 1-Chlorooctadecane 851 % 63.6-154

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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.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

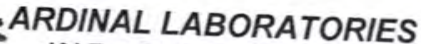
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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 11 of 11

Company Name: RPCS				(505) 393-2326 FAX (505) 393-2476 (325) 673-7020 FAX (325) 673-7020			
Project Manager: Jacob Kamplain				BILL TO			
Address:				P.O. #:			
City: Hobbs State: NM Zip: 88240				Company:			
Phone #: Fax #:				Attn:			
Project #: Project Owner:				Address:			
Project Name:				City:			
Project Location: Gissler A-2				State: Zip:			
Sampler Name: Kyle Humphrey				Phone #: Fax #:			

FOR LAB USE ONLY												ANALYSIS REQUEST							
Lab I.D.	Sample I.D.	(GIRAB OR (C)OMP. # CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS
H400911																			
1	Pt 1 @ Surface	6			✓				✓			3-26-14	10:00	X	X	X			
2	Pt 2 @ Surface	6			✓				✓				10:05	X	X	X			
3	Pt 3 @ Surface	6			✓				✓				10:10	X	X	X			
4	Pt 4 @ Surface	6			✓				✓				10:15	X	X	X			
5	Pt 5 @ Surface	6			✓				✓				10:20	X	X	X			
6	Pt 6 @ Surface	6			✓				✓				10:25	X	X	X			
7	Pt 7 @ Surface	6			✓				✓				10:30	X	X	X			
8	Pt 8 @ Surface	6			✓				✓				10:35	X	X	X			

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Relinquished By: Kyle Humphrey		Date: 3/26/14	Received By: Jodi Benson		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Date: 4:25	Received By:		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #:	
Delivered By: (Circle One)		Time:		REMARKS:		
Sampler - UPS - Bus - Other:		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		CHECKED BY: [Signature]		

email results
Knorman@rice-ecs.com
Kjones@riceswd.com; jkamplain@rice-ecs.com hconder@rice-ecs.com;
Lweinheimer@rice-ecs.com
Khumphrey@rice-ecs.com
sedwards@rice-ecs.com, lflores@rice-ecs.com

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

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

April 08, 2014

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: GISSLER A-2

Enclosed are the results of analyses for samples received by the laboratory on 04/02/14 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,



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: 04/02/2014
Reported: 04/08/2014
Project Name: GISSLER A-2
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PT 1 @ 6" (H400982-01)

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	04/07/2014	ND	2.01	100	2.00	1.39	
Toluene*	3.53	0.200	04/07/2014	ND	1.92	95.8	2.00	2.21	
Ethylbenzene*	6.46	0.200	04/07/2014	ND	1.91	95.3	2.00	0.140	
Total Xylenes*	9.25	0.600	04/07/2014	ND	5.49	91.6	6.00	0.369	
Total BTX	19.2	1.20	04/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 162 % 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	1170	16.0	04/07/2014	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	248	100	04/04/2014	ND	183	91.4	200	1.10	
DRO >C10-C28	8940	100	04/04/2014	ND	203	101	200	5.74	

Surrogate: 1-Chlorooctane 146 % 65.2-140

Surrogate: 1-Chlorooctadecane 304 % 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: 04/02/2014
 Reported: 04/08/2014
 Project Name: GISSLER A-2
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/27/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT 3 @ 6" (H400982-02)

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.70	2.00	04/07/2014	ND	2.01	100	2.00	1.39	
Toluene*	44.1	2.00	04/07/2014	ND	1.92	95.8	2.00	2.21	
Ethylbenzene*	56.6	2.00	04/07/2014	ND	1.91	95.3	2.00	0.140	
Total Xylenes*	89.8	6.00	04/07/2014	ND	5.49	91.6	6.00	0.369	
Total BTX	194	12.0	04/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 147 % 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	48.0	16.0	04/07/2014	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	2100	100	04/04/2014	ND	183	91.4	200	1.10	
DRO >C10-C28	16200	100	04/04/2014	ND	203	101	200	5.74	

Surrogate: 1-Chlorooctane 202 % 65.2-140

Surrogate: 1-Chlorooctadecane 452 % 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: 04/02/2014
 Reported: 04/08/2014
 Project Name: GISSLER A-2
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/27/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT 4 @ 6" (H400982-03)

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	04/07/2014	ND	2.01	100	2.00	1.39	
Toluene*	19.3	2.00	04/07/2014	ND	1.92	95.8	2.00	2.21	
Ethylbenzene*	27.1	2.00	04/07/2014	ND	1.91	95.3	2.00	0.140	
Total Xylenes*	44.5	6.00	04/07/2014	ND	5.49	91.6	6.00	0.369	
Total BTX	90.9	12.0	04/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 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	04/07/2014	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	1920	100	04/04/2014	ND	183	91.4	200	1.10	
DRO >C10-C28	17700	100	04/04/2014	ND	203	101	200	5.74	

Surrogate: 1-Chlorooctane 207 % 65.2-140

Surrogate: 1-Chlorooctadecane 461 % 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: 04/02/2014
 Reported: 04/08/2014
 Project Name: GISSLER A-2
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/27/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT 5 @ 6" (H400982-04)

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2014	ND	2.01	100	2.00	1.39	
Toluene*	0.074	0.050	04/07/2014	ND	1.92	95.8	2.00	2.21	
Ethylbenzene*	0.340	0.050	04/07/2014	ND	1.91	95.3	2.00	0.140	
Total Xylenes*	0.647	0.150	04/07/2014	ND	5.49	91.6	6.00	0.369	
Total BTX	1.06	0.300	04/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 153 % 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	<16.0	16.0	04/07/2014	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	24.5	10.0	04/04/2014	ND	183	91.4	200	1.10	
DRO >C10-C28	670	10.0	04/04/2014	ND	203	101	200	5.74	

Surrogate: 1-Chlorooctane 123 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 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: 04/02/2014
Reported: 04/08/2014
Project Name: GISSLER A-2
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PT 6 @ 6" (H400982-05)

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2014	ND	2.01	100	2.00	1.39	
Toluene*	0.428	0.050	04/07/2014	ND	1.92	95.8	2.00	2.21	
Ethylbenzene*	1.31	0.050	04/07/2014	ND	1.91	95.3	2.00	0.140	
Total Xylenes*	2.49	0.150	04/07/2014	ND	5.49	91.6	6.00	0.369	
Total BTX	4.23	0.300	04/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 133 % 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	4800	16.0	04/07/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg	Analyzed By: ms					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	04/04/2014	ND	183	91.4	200	1.10	
DRO >C10-C28	572	50.0	04/04/2014	ND	203	101	200	5.74	

Surrogate: 1-Chlorooctane 113 % 65.2-140

Surrogate: 1-Chlorooctadecane 137 % 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: 04/02/2014
Reported: 04/08/2014
Project Name: GISSLER A-2
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PT 7 @ 6" (H400982-06)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	7.93	5.00	04/07/2014	ND	2.01	100	2.00	1.39	
Toluene*	64.8	5.00	04/07/2014	ND	1.92	95.8	2.00	2.21	
Ethylbenzene*	130	5.00	04/07/2014	ND	1.91	95.3	2.00	0.140	
Total Xylenes*	229	15.0	04/07/2014	ND	5.49	91.6	6.00	0.369	
Total BTEX	431	30.0	04/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 150 % 89.4-126

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/07/2014	ND	416	104	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	5930	200	04/04/2014	ND	183	91.4	200	1.10	
DRO >C10-C28	35700	200	04/04/2014	ND	203	101	200	5.74	

Surrogate: 1-Chlorooctane 424 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 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: 04/02/2014
 Reported: 04/08/2014
 Project Name: GISSLER A-2
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/27/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT 8 @ 6" (H400982-07)

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	04/07/2014	ND	2.01	100	2.00	1.39	
Toluene*	0.712	0.200	04/07/2014	ND	1.92	95.8	2.00	2.21	
Ethylbenzene*	3.61	0.200	04/07/2014	ND	1.91	95.3	2.00	0.140	
Total Xylenes*	6.55	0.600	04/07/2014	ND	5.49	91.6	6.00	0.369	
Total BTX	10.9	1.20	04/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 165 % 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	04/07/2014	ND	416	104	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	240	10.0	04/04/2014	ND	183	91.4	200	1.10	
DRO >C10-C28	2290	10.0	04/04/2014	ND	203	101	200	5.74	

Surrogate: 1-Chlorooctane 144 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.2 % 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:	04/02/2014	Sampling Date:	03/27/2014
Reported:	04/08/2014	Sampling Type:	Soil
Project Name:	GISSLER A-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT 6 @ 1' (H400982-08)

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	04/07/2014	ND	2.01	100	2.00	1.39	
Toluene*	<0.050	0.050	04/07/2014	ND	1.92	95.8	2.00	2.21	
Ethylbenzene*	<0.050	0.050	04/07/2014	ND	1.91	95.3	2.00	0.140	
Total Xylenes*	<0.150	0.150	04/07/2014	ND	5.49	91.6	6.00	0.369	
Total BTEx	<0.300	0.300	04/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	9860	16.0	04/07/2014	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	04/04/2014	ND	163	81.4	200	1.36	
DRO >C10-C28	12.0	10.0	04/04/2014	ND	181	90.3	200	2.70	

Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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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.
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



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: <u>RECS</u>				BILL TO				ANALYSIS REQUEST											
Project Manager: <u>Jacob Kamplain</u>				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:				Company:															
City: Hobbs State: NM Zip: 88240				Attn:															
Phone #: Fax #:				Address:															
Project #: Project Owner:				City:															
Project Name:				State: Zip:															
Project Location: <u>G. S. L. A-2</u>				Phone #:															
Sampler Name: <u>Kyle Humphrey</u>				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					
<u>H400982</u>																			
<u>1</u>	<u>P+1 @ 6"</u>	<u>6</u>	<u>1</u>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			<u>7-27-11</u>	<u>9:00</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>2</u>	<u>P+3 @ 6"</u>	<u>6</u>	<u>1</u>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<u>9:05</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>3</u>	<u>P+4 @ 6"</u>	<u>6</u>	<u>1</u>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<u>9:10</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>4</u>	<u>P+5 @ 6"</u>	<u>6</u>	<u>1</u>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<u>9:15</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>5</u>	<u>P+6 @ 6"</u>	<u>6</u>	<u>1</u>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<u>9:20</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>6</u>	<u>P+7 @ 6"</u>	<u>6</u>	<u>1</u>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<u>9:25</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>7</u>	<u>P+8 @ 6"</u>	<u>6</u>	<u>1</u>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<u>9:30</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>8</u>	<u>P+6 @ 1'</u>	<u>6</u>	<u>1</u>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<u>10:00</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

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Relinquished By: <u>K. R. Taylor</u>	Date: <u>4/2/14</u>	Received By: <u>Jodi Benson</u>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: <u>3:30</u>		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		email results	
Delivered By: (Circle One)		Sample Condition	Knorman@rice-ecs.com	
Sampler - UPS - Bus - Other:		Cool - Intact	Kjones@riceswd.com; jkamplain@rice-ecs.com hconder@rice-ecs.com;	
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lweinheimer@rice-ecs.com	
		<input type="checkbox"/> No <input type="checkbox"/> No	Khumphrey@rice-ecs.com	
			sedwards@rice-ecs.com, lflores@rice-ecs.com	

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

#54



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

April 08, 2014

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: GISSLER A-2

Enclosed are the results of analyses for samples received by the laboratory on 04/02/14 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
JACOB KAMPLAIN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 397-1471

Received:	04/02/2014	Sampling Date:	03/31/2014
Reported:	04/08/2014	Sampling Type:	Soil
Project Name:	GISSLER A-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 4 @ 1' (H400983-01)

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	04/07/2014	ND	2.01	100	2.00	1.39	
Toluene*	<0.050	0.050	04/07/2014	ND	1.92	95.8	2.00	2.21	
Ethylbenzene*	<0.050	0.050	04/07/2014	ND	1.91	95.3	2.00	0.140	
Total Xylenes*	<0.150	0.150	04/07/2014	ND	5.49	91.6	6.00	0.369	
Total BTX	<0.300	0.300	04/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/08/2014	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	04/04/2014	ND	163	81.4	200	1.36	
DRO >C10-C28	195	10.0	04/04/2014	ND	181	90.3	200	2.70	

Surrogate: 1-Chlorooctane 118 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 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: 04/02/2014
 Reported: 04/08/2014
 Project Name: GISSLER A-2
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/31/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 5 @ 1' (H400983-02)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2014	ND	2.01	100	2.00	1.39	
Toluene*	0.238	0.050	04/07/2014	ND	1.92	95.8	2.00	2.21	
Ethylbenzene*	0.612	0.050	04/07/2014	ND	1.91	95.3	2.00	0.140	
Total Xylenes*	1.13	0.150	04/07/2014	ND	5.49	91.6	6.00	0.369	
Total BTEx	1.98	0.300	04/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 134 % 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	04/08/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	04/04/2014	ND	163	81.4	200	1.36	
DRO >C10-C28	2310	50.0	04/04/2014	ND	181	90.3	200	2.70	

Surrogate: 1-Chlorooctane 128 % 65.2-140

Surrogate: 1-Chlorooctadecane 159 % 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: 04/02/2014
 Reported: 04/08/2014
 Project Name: GISSLER A-2
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/31/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 6 @ 8' (H400983-03)

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	04/07/2014	ND	1.99	99.3	2.00	3.19	
Toluene*	<0.050	0.050	04/07/2014	ND	2.02	101	2.00	2.90	
Ethylbenzene*	<0.050	0.050	04/07/2014	ND	1.99	99.6	2.00	3.10	
Total Xylenes*	<0.150	0.150	04/07/2014	ND	5.73	95.5	6.00	3.00	
Total BTEx	<0.300	0.300	04/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	384	16.0	04/08/2014	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	04/04/2014	ND	163	81.4	200	1.36	
DRO >C10-C28	<10.0	10.0	04/04/2014	ND	181	90.3	200	2.70	

Surrogate: 1-Chlorooctane 123 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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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.
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



Celey D. Keene, Lab Director/Quality Manager

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

#54

May 09, 2014

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: GISSLER A-2

Enclosed are the results of analyses for samples received by the laboratory on 05/01/14 11:48.

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: 05/01/2014
Reported: 05/09/2014
Project Name: GISSLER A-2
Project Number: BURNETT
Project Location: NOT GIVEN

Sampling Date: 04/30/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: PT 8 1' (H401329-01)

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	05/09/2014	ND	2.37	119	2.00	0.0531	
Toluene*	<0.050	0.050	05/09/2014	ND	2.38	119	2.00	0.125	
Ethylbenzene*	<0.050	0.050	05/09/2014	ND	2.24	112	2.00	0.819	
Total Xylenes*	<0.150	0.150	05/09/2014	ND	6.91	115	6.00	0.228	
Total BTEX	<0.300	0.300	05/09/2014	ND					

Surrogate: Dibromofluoromethane 97.6 % 61.3-142

Surrogate: Toluene-d8 109 % 71.3-129

Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/08/2014	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	05/08/2014	ND	192	95.9	200	1.84	
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	220	110	200	12.1	

Surrogate: 1-Chlorooctane 89.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.4 % 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: 05/01/2014
Reported: 05/09/2014
Project Name: GISSLER A-2
Project Number: BURNETT
Project Location: NOT GIVEN

Sampling Date: 04/30/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: PT 7 2.5' (H401329-02)

BTX 8260B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.26	0.500	05/09/2014	ND	2.37	119	2.00	0.0531	
Toluene*	63.3	0.500	05/09/2014	ND	2.38	119	2.00	0.125	
Ethylbenzene*	63.8	0.500	05/09/2014	ND	2.24	112	2.00	0.819	
Total Xylenes*	88.0	1.50	05/09/2014	ND	6.91	115	6.00	0.228	
Total BTX	219	3.00	05/09/2014	ND					

Surrogate: Dibromofluoromethane 98.3 % 61.3-142
Surrogate: Toluene-d8 115 % 71.3-129
Surrogate: 4-Bromofluorobenzene 247 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/08/2014	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	2020	100	05/08/2014	ND	192	95.9	200	1.84		
DRO >C10-C28	7350	100	05/08/2014	ND	220	110	200	12.1		

Surrogate: 1-Chlorooctane 153 % 65.2-140
Surrogate: 1-Chlorooctadecane 192 % 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: 05/01/2014
Reported: 05/09/2014
Project Name: GISSLER A-2
Project Number: BURNETT
Project Location: NOT GIVEN

Sampling Date: 04/30/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: PT 7 3' (H401329-03)

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	05/09/2014	ND	2.37	119	2.00	0.0531	
Toluene*	0.087	0.050	05/09/2014	ND	2.38	119	2.00	0.125	
Ethylbenzene*	0.093	0.050	05/09/2014	ND	2.24	112	2.00	0.819	
Total Xylenes*	<0.150	0.150	05/09/2014	ND	6.91	115	6.00	0.228	
Total BTEX	<0.300	0.300	05/09/2014	ND					

Surrogate: Dibromofluoromethane 96.5 % 61.3-142

Surrogate: Toluene-d8 99.6 % 71.3-129

Surrogate: 4-Bromofluorobenzene 132 % 65.7-141

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/08/2014	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	05/08/2014	ND	192	95.9	200	1.84	
DRO >C10-C28	194	10.0	05/08/2014	ND	220	110	200	12.1	

Surrogate: 1-Chlorooctane 107 % 65.2-140

Surrogate: 1-Chlorooctadecane 127 % 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: 05/01/2014
Reported: 05/09/2014
Project Name: GISSLER A-2
Project Number: BURNETT
Project Location: NOT GIVEN

Sampling Date: 04/30/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: PT 3 1' (H401329-04)

BTX 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	05/09/2014	ND	2.37	119	2.00	0.0531	
Toluene*	<0.050	0.050	05/09/2014	ND	2.38	119	2.00	0.125	
Ethylbenzene*	0.068	0.050	05/09/2014	ND	2.24	112	2.00	0.819	
Total Xylenes*	0.188	0.150	05/09/2014	ND	6.91	115	6.00	0.228	
Total BTX	<0.300	0.300	05/09/2014	ND					

Surrogate: Dibromofluoromethane 98.3 % 61.3-142
Surrogate: Toluene-d8 103 % 71.3-129
Surrogate: 4-Bromofluorobenzene 128 % 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	32.0	16.0	05/08/2014	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	05/08/2014	ND	192	95.9	200	1.84	
DRO >C10-C28	522	10.0	05/08/2014	ND	220	110	200	12.1	

Surrogate: 1-Chlorooctane 119 % 65.2-140
Surrogate: 1-Chlorooctadecane 126 % 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.
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

**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 / J Kamplain				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:				Company:											
City: Hobbs State: NM Zip: 88240				Attn:											
Phone #: Fax #:				Address:											
Project #: Project Owner:				City:											
Project Name:				State: Zip:											
Project Location: BURNETT GISSLER A-2				Phone #:											
Sampler Name: EDWARD CESAREO				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	
H401329															
01	PT. 8 1'	G	1			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			4-30-14	6:50	<input checked="" type="checkbox"/>
02	PT. 7 2.5'	G	1			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			6:55		<input checked="" type="checkbox"/>
03	PT. 7 3'	G	1			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			7:00		<input checked="" type="checkbox"/>
04	PT. 3 1'	G	1			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			7:05		<input checked="" type="checkbox"/>

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

Relinquished By:	Date: 5/1/14 Time: 11:48	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:			REMARKS:	
Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No			email: hconder@riceswd.com; lflores@rice-ecs.com; lweinheimer@rice-ecs.com; knorman@rice-ecs.com; jkamplain@rice-ecs.com; sedwards@rice-ecs.com; cursanic@rice-ecs.com Environmental Tech: ecesareo @rice-ecs.com	
CHECKED BY: (Initials) epk				

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

#54

September 12, 2014

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: GISSLER A-2

Enclosed are the results of analyses for samples received by the laboratory on 09/11/14 13:20.

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
JACOB KAMPLAIN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 397-1471

Received:	09/11/2014	Sampling Date:	09/11/2014
Reported:	09/12/2014	Sampling Type:	Soil
Project Name:	GISSLER A-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 5 @ 1.5' (H402826-01)

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	09/11/2014	ND	1.82	91.1	2.00	6.49	
Toluene*	<0.050	0.050	09/11/2014	ND	1.68	83.8	2.00	5.95	
Ethylbenzene*	<0.050	0.050	09/11/2014	ND	1.75	87.5	2.00	6.27	
Total Xylenes*	<0.150	0.150	09/11/2014	ND	5.34	89.0	6.00	6.76	
Total BTX	<0.300	0.300	09/11/2014	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/12/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/12/2014	ND	198	99.1	200	4.65	
DRO >C10-C28	<10.0	10.0	09/12/2014	ND	198	98.9	200	8.84	

Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 123 % 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



RUSH 11

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]

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

Date: _____ Received By: _____

Phone Result: _____
Fax Result: _____

<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising with respect to the use of the service shall be limited to the amount paid by client for the service. 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 of the date of the service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>			
<p>Relinquished By: <u>Kyle Schnaidt</u></p>		<p>Received By: <u>Jodi Benson</u></p>	
<p>Relinquished By: _____</p>		<p>Received By: _____</p>	
<p>Delivered By: (Circle One) <u>3.20</u> Sampler - UPS - Bus - Other: _____</p>		<p>Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No</p>	
<p>Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No</p>		<p>Add'l Phone #: _____</p>	
<p>Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No</p>		<p>Add'l Fax #: _____</p>	
<p>REMARKS: <u>All</u></p>		<p>CHECKED BY: <u>[Signature]</u></p>	

Appendix C

Photo Documentation

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

Burnett Gissler A-2 Battery

Unit Letter J&O, Section 14, T17S, R30E



Initial release area, facing northwest

3/20/14



Initial release area, facing southwest

3/20/14



Initial release area, facing northeast

3/20/14



Initial release area, facing south

3/20/14



Initial release area, facing southeast 3/20/14



Hand augering for depth, facing west 3/27/14



Hand augering for depth, facing southwest 3/27/14



Installing vertical, facing west 9/11/14