



PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

**February 2<sup>nd</sup>, 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 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 extended 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.

On March 20<sup>th</sup>, 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 20<sup>th</sup>, 2014, and an initial C-141 was sent to NMOCD and BLM for their approval. NMOCD approved the initial C-141 on March 31<sup>st</sup>, 2014 (Appendix A).

RECS personnel were on site beginning on March 20<sup>th</sup>, 2014, to assess the release. Based on the assessment, eight samples points from within the release were sampled at the surface and with depth (Figure 1). 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).

Once the initial sampling was completed, a Corrective Action Plan (CAP) was submitted to NMOCD and BLM on November 4<sup>th</sup>, 2014. The CAP stated that the site would be excavated in seven sections (Figure 2). The release area in the battery would be scraped down 6 inches to 1 foot bgs. To protect tank stability and personnel safety, the scrape would not extend passed this depth. Once the scrape was completed, a 5 point bottom composite would be taken and field tested for chlorides and organic vapors. The composite would then be taken to a commercial

laboratory for analysis. On facility abandonment, the remainder of the contamination at the battery pad would be addressed.

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

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

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

Both NMOCD and BLM approved the CAP on November 5<sup>th</sup>, 2014; however both agencies imposed stipulations in conjunction with their approvals. NMOCD stated that they would like to review the final excavation sampling data from the areas around Pt. 1 and Pt. 2 in the battery due to extremely high initial hydrocarbon and BTEX laboratory numbers. BLM stated that the areas around Pt. 1 and Pt. 2 needed to return final excavation TPH readings below 5,000 mg/kg and BTEX readings below 50 mg/kg.

Corrective action activities began at the site on November 20<sup>th</sup>, 2014. The release area was scraped in seven portions (Figure 3). The contaminated soil in the battery was hand shoveled to a depth of 8 inches bgs. Moving south from the battery, the scrapes were excavated to a depth of 1.5 ft bgs, 2 ft bgs, 6 inches bgs, 4 ft bgs, 3 ft bgs and 1 ft bgs, respectively. In total, 1,332 cubic yards of contaminated soil from the pasture areas and the battery were taken to a NMOCD approved facility for disposal. Once the 8 inch scrape in the battery and the 6 inch scrape over

the caliche road were completed, bottom composite samples from each scrape were taken and field tested for chlorides and organic vapors. The composite samples were then sent to a commercial laboratory for analyses. The 5 point composite in the battery returned a laboratory chloride reading of 512 mg/kg, a GRO reading of 94.3 mg/kg, a DRO reading of 2,810 mg/kg and a total BTEX reading of 3.76 mg/kg (Appendix C). The 2 point composite of the 6 inch road scrape returned a chloride reading of 400 mg/kg and a DRO reading of 154 mg/kg. The GRO and BTEX readings returned values of non-detect.

Once the excavation to 4 ft bgs around Point 6 was completed, 8 wall samples were taken from the completed excavation and field tested for chlorides and hydrocarbons. The samples were then taken to a commercial laboratory for analyses. The wall samples returned laboratory chloride readings ranging from 624 mg/kg to non-detect. GRO and BTEX readings for the wall samples returned readings of non-detect. The DRO readings from the wall samples ranged from 954 mg/kg to non-detect.

On December 12<sup>th</sup>, 2014, a request to install the 20-mil reinforced poly liner in the 4 ft excavation and to backfill the excavations outside the facility was sent to NMOCD and BLM for their approval. BLM approved the request on December 12<sup>th</sup>, 2014, and NMOCD approved the request on December 18<sup>th</sup>, 2014. On December 15<sup>th</sup>, 2014, a 20-mil reinforced poly liner was installed and properly seated into the base of the 4 ft excavation.

A total of 1,640 cubic yards of top soil was imported to the site to backfill the pasture areas. A sample of this imported top soil was taken to a commercial laboratory and returned a chloride value of non-detect. The pasture area was backfilled with the imported top soil and contoured to the surrounding location.

On December 22<sup>nd</sup>, 2014, a request to backfill the battery was sent to NMOCD and BLM. NMOCD approved the request on December 26<sup>th</sup>, 2014, and BLM approved the request on January 5<sup>th</sup>, 2015. A total of 444 cubic yards of caliche was imported to the site to backfill the battery and build berms.

On January 7<sup>th</sup>, 2014, soil amendments were added to the disturbed areas in the pasture, and then the areas were seeded with LPC mix.

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

Given that Burnett has fulfilled the requirements set by the approved CAP and received permission to backfill the site from NMOCD and BLM, 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 'J.C. Weinheimer', with a long, horizontal, slightly wavy line extending to the right.

Lara Weinheimer  
Project Scientist  
RECS  
(575) 441-0431

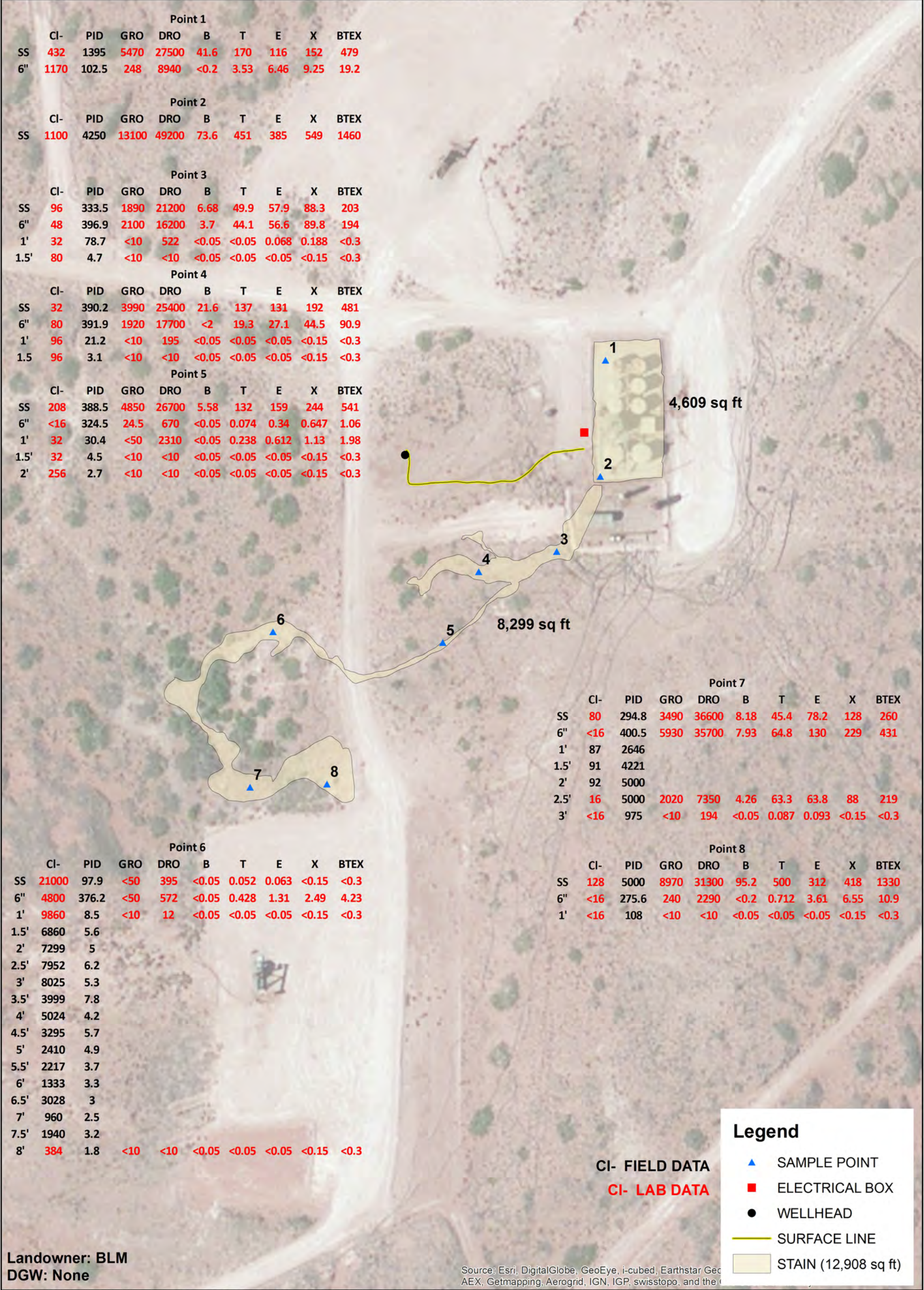
Attachments:

- Figure 1 – Initial Sampling Data
- Figure 2 – Proposed Corrective Actions
- Figure 3 – Excavation Data
- Appendix A – Initial C-141
- Appendix B – Initial Sampling Labs
- Appendix C – Corrective Action Labs
- Appendix D – Photo Documentation
- Appendix E – Final C-141

# Figures

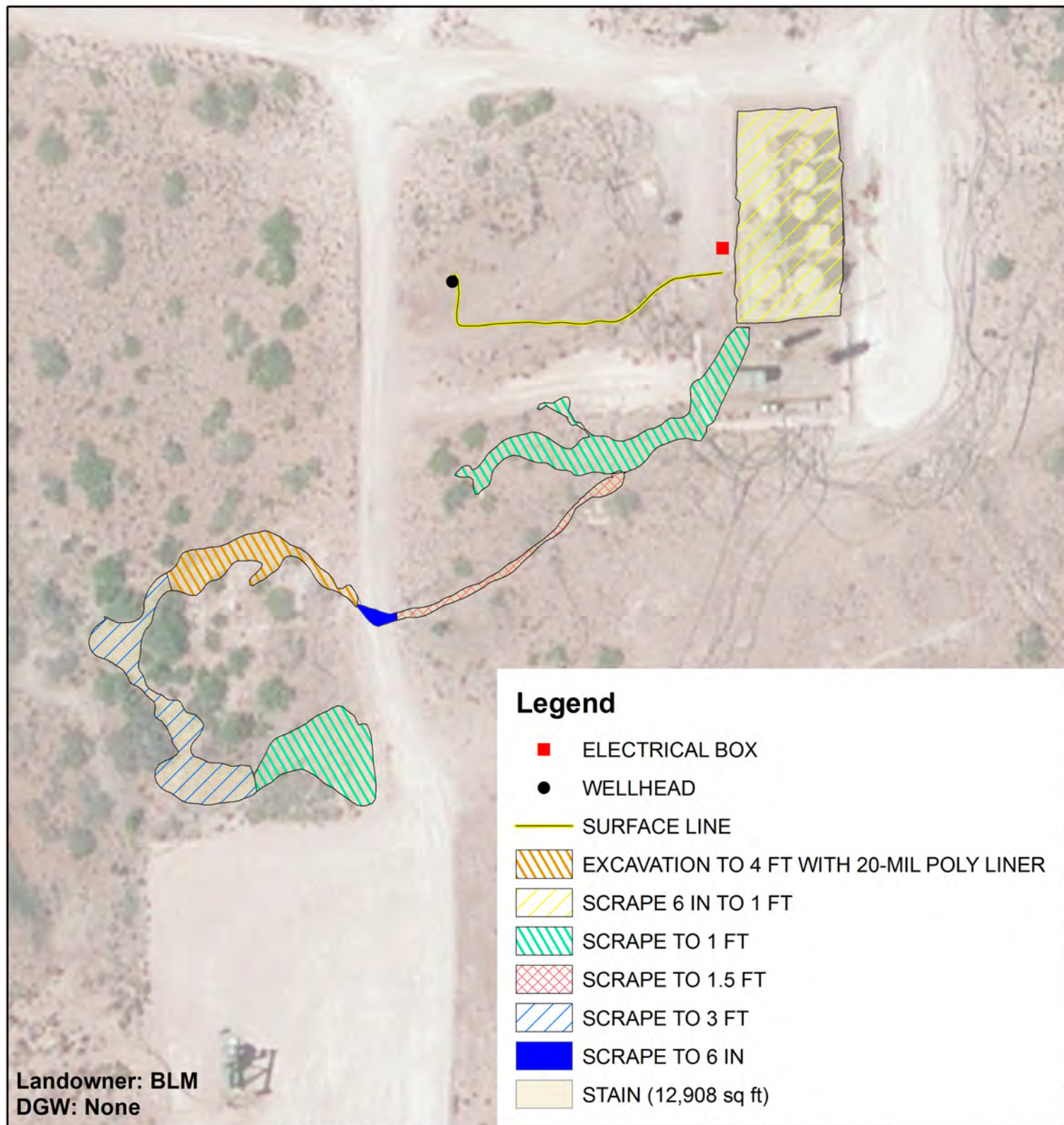


Initial Sampling Data



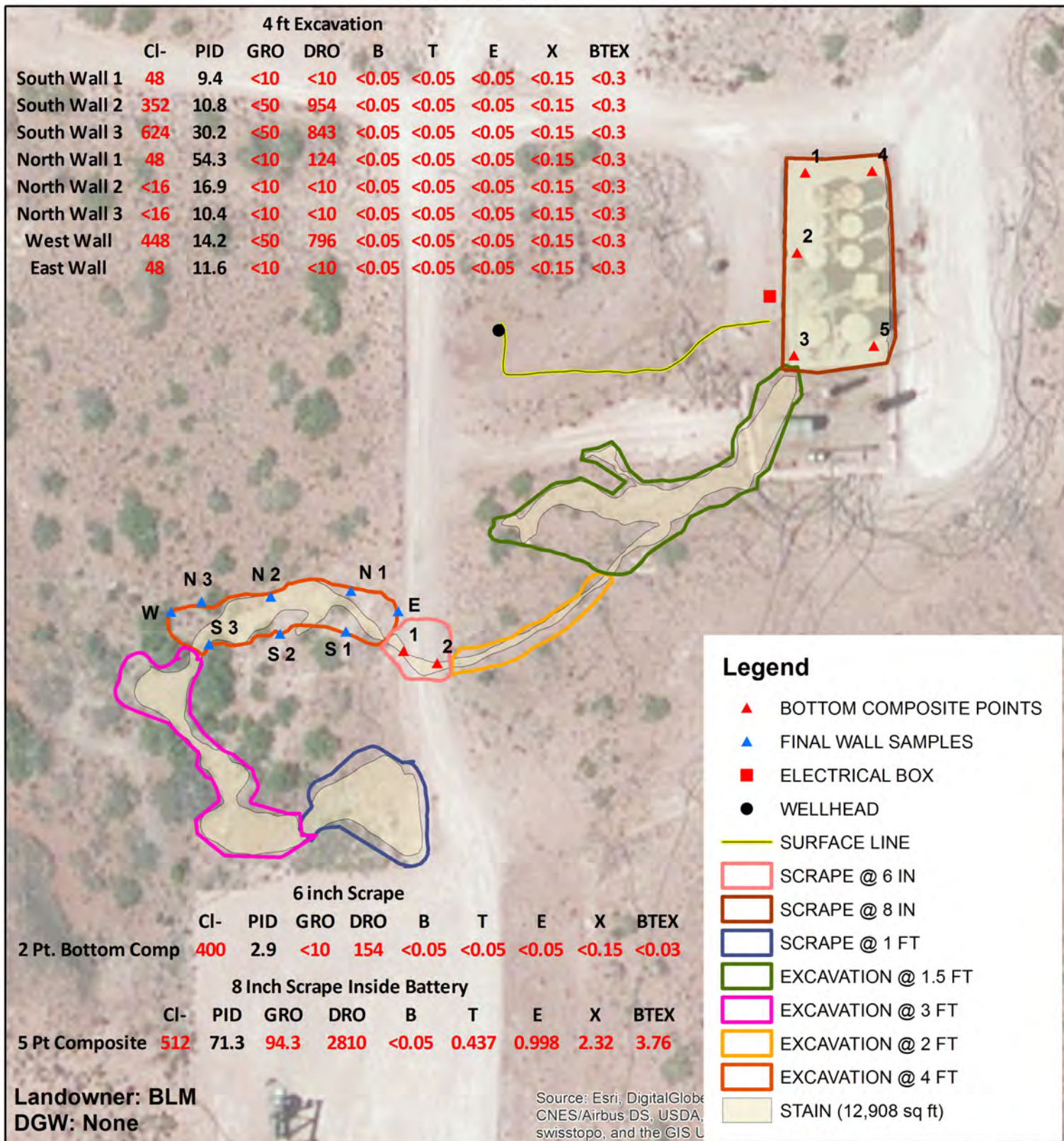


# Proposed Corrective Actions





# Excavation Data





# 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](http://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
<b>Benzene*</b>	<b>41.6</b>	5.00	04/01/2014	ND	2.28	114	2.00	8.45	
<b>Toluene*</b>	<b>170</b>	5.00	04/01/2014	ND	2.18	109	2.00	8.38	
<b>Ethylbenzene*</b>	<b>116</b>	5.00	04/01/2014	ND	2.13	106	2.00	8.60	
<b>Total Xylenes*</b>	<b>152</b>	15.0	04/01/2014	ND	6.26	104	6.00	7.23	
<b>Total BTX</b>	<b>479</b>	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
<b>Chloride</b>	<b>432</b>	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	
<b>GRO C6-C10</b>	<b>5470</b>	100	03/31/2014	ND	222	111	200	9.86		
<b>DRO &gt;C10-C28</b>	<b>27500</b>	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
<b>Benzene*</b>	<b>73.6</b>	10.0	04/01/2014	ND	2.28	114	2.00	8.45	
<b>Toluene*</b>	<b>451</b>	10.0	04/01/2014	ND	2.18	109	2.00	8.38	
<b>Ethylbenzene*</b>	<b>385</b>	10.0	04/01/2014	ND	2.13	106	2.00	8.60	
<b>Total Xylenes*</b>	<b>549</b>	30.0	04/01/2014	ND	6.26	104	6.00	7.23	
<b>Total BTX</b>	<b>1460</b>	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
<b>Chloride</b>	<b>1100</b>	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
<b>GRO C6-C10</b>	<b>13100</b>	100	03/31/2014	ND	222	111	200	9.86	
<b>DRO &gt;C10-C28</b>	<b>49200</b>	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

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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)**

BTEx 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 BTEX	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
<b>Chloride</b>	<b>96.0</b>	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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\*=Accredited Analyte

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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
<b>Benzene*</b>	<b>21.6</b>	5.00	04/01/2014	ND	2.28	114	2.00	8.45	
<b>Toluene*</b>	<b>137</b>	5.00	04/01/2014	ND	2.18	109	2.00	8.38	
<b>Ethylbenzene*</b>	<b>131</b>	5.00	04/01/2014	ND	2.13	106	2.00	8.60	
<b>Total Xylenes*</b>	<b>192</b>	15.0	04/01/2014	ND	6.26	104	6.00	7.23	
<b>Total BTX</b>	<b>481</b>	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
<b>Chloride</b>	<b>32.0</b>	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
<b>GRO C6-C10</b>	<b>3990</b>	100	03/31/2014	ND	222	111	200	9.86	
<b>DRO &gt;C10-C28</b>	<b>25400</b>	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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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
<b>Benzene*</b>	<b>5.58</b>	5.00	04/01/2014	ND	2.28	114	2.00	8.45	
<b>Toluene*</b>	<b>132</b>	5.00	04/01/2014	ND	2.18	109	2.00	8.38	
<b>Ethylbenzene*</b>	<b>159</b>	5.00	04/01/2014	ND	2.13	106	2.00	8.60	
<b>Total Xylenes*</b>	<b>244</b>	15.0	04/01/2014	ND	6.26	104	6.00	7.23	
<b>Total BTX</b>	<b>541</b>	30.0	04/01/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 140 % 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
<b>Chloride</b>	<b>208</b>	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
<b>GRO C6-C10</b>	<b>4850</b>	100	03/31/2014	ND	222	111	200	9.86	
<b>DRO &gt;C10-C28</b>	<b>26700</b>	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

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	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

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. 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
<b>Benzene*</b>	<b>8.18</b>	2.00	04/01/2014	ND	2.28	114	2.00	8.45	
<b>Toluene*</b>	<b>45.4</b>	2.00	04/01/2014	ND	2.18	109	2.00	8.38	
<b>Ethylbenzene*</b>	<b>78.2</b>	2.00	04/01/2014	ND	2.13	106	2.00	8.60	
<b>Total Xylenes*</b>	<b>128</b>	6.00	04/01/2014	ND	6.26	104	6.00	7.23	
<b>Total BTX</b>	<b>260</b>	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
<b>Chloride</b>	<b>80.0</b>	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
<b>GRO C6-C10</b>	<b>3490</b>	100	03/31/2014	ND	222	111	200	9.86	
<b>DRO &gt;C10-C28</b>	<b>36600</b>	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

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. 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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\*=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.
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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Cardinal Laboratories

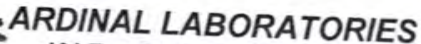
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Celey D. Keene, Lab Director/Quality Manager



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	RECS	(325) 673-7020 FAX (505) 393-2476 (325) 673-7001 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 #:
FOR LAB USE ONLY		Fax #:

**BILL TO**

ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D.

**Sample I.D.**

4400911

1	p + 1	Surface
2	p + 2	Surface
3	p + 3	Surface
4	p + 4	Surface
5	p + 5	Surface
6	p + 6	Surface
7	p + 7	Surface
8	p + 8	Surface

(G)RAB OR (C)OMP.		# CONTAINERS	MATRIX					PRESERV.		SAMPLING			
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME
6	1				✓					✓		3-26-14	10:00
6	1				✓					✓			10:05
6	1				✓					✓			10:10
6	1				✓					✓			10:15
6	1				✓					✓			10:20
6	1				✓					✓			10:25
6	1				✓					✓			10:30
6	1				✓					✓			10:35

Chlorides

TPH 8015 M

BTEX

Texas TPH

Complete Cations/Anions

TDS

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Relinquished By: \_\_\_\_\_ Date: 10/11/11 Received By: \_\_\_\_\_

Relinquished By:

Relinquished By: Kyle Hurns

Relinquished By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Date: 3/26/14  
Time: 4:25  
Date:  
Time:

Received By:

Received By: Jodi Benson

Received By:

Sample Condition	
Cool	Intact
<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes
<input type="checkbox"/> No	<input type="checkbox"/> No

CHECKED BY:

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:			

REMARKS:

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

#54



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](http://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	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 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	
<b>Toluene*</b>	<b>3.53</b>	0.200	04/07/2014	ND	1.92	95.8	2.00	2.21	
<b>Ethylbenzene*</b>	<b>6.46</b>	0.200	04/07/2014	ND	1.91	95.3	2.00	0.140	
<b>Total Xylenes*</b>	<b>9.25</b>	0.600	04/07/2014	ND	5.49	91.6	6.00	0.369	
<b>Total BTX</b>	<b>19.2</b>	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
<b>Chloride</b>	<b>1170</b>	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
<b>GRO C6-C10</b>	<b>248</b>	100	04/04/2014	ND	183	91.4	200	1.10	
<b>DRO &gt;C10-C28</b>	<b>8940</b>	100	04/04/2014	ND	203	101	200	5.74	

Surrogate: 1-Chlorooctane 146 % 65.2-140

Surrogate: 1-Chlorooctadecane 304 % 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: 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
<b>Benzene*</b>	<b>3.70</b>	2.00	04/07/2014	ND	2.01	100	2.00	1.39	
<b>Toluene*</b>	<b>44.1</b>	2.00	04/07/2014	ND	1.92	95.8	2.00	2.21	
<b>Ethylbenzene*</b>	<b>56.6</b>	2.00	04/07/2014	ND	1.91	95.3	2.00	0.140	
<b>Total Xylenes*</b>	<b>89.8</b>	6.00	04/07/2014	ND	5.49	91.6	6.00	0.369	
<b>Total BTX</b>	<b>194</b>	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
<b>Chloride</b>	<b>48.0</b>	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
<b>GRO C6-C10</b>	<b>2100</b>	100	04/04/2014	ND	183	91.4	200	1.10	
<b>DRO &gt;C10-C28</b>	<b>16200</b>	100	04/04/2014	ND	203	101	200	5.74	

Surrogate: 1-Chlorooctane 202 % 65.2-140

Surrogate: 1-Chlorooctadecane 452 % 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:	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 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

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: 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 BTEX	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

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:	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 @ 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	
<b>Toluene*</b>	<b>0.428</b>	0.050	04/07/2014	ND	1.92	95.8	2.00	2.21	
<b>Ethylbenzene*</b>	<b>1.31</b>	0.050	04/07/2014	ND	1.91	95.3	2.00	0.140	
<b>Total Xylenes*</b>	<b>2.49</b>	0.150	04/07/2014	ND	5.49	91.6	6.00	0.369	
<b>Total BTX</b>	<b>4.23</b>	0.300	04/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 133 % 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
<b>Chloride</b>	<b>4800</b>	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	
<b>DRO &gt;C10-C28</b>	<b>572</b>	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)**

BTX 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 BTX	431	30.0	04/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 150 % 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				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)**

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	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 BTEX	10.9	1.20	04/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 165 % 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-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  
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 @ 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



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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<b>Relinquished By:</b> 		<b>Received By:</b> 	
<b>Date:</b> 4/2/14		<b>Phone Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <b>Add'l Phone #:</b>	
<b>Time:</b> 3:30		<b>Fax Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <b>Add'l Fax #:</b>	
<b>Relinquished By:</b>		<b>REMARKS:</b> 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	
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other:		<b>CHECKED BY:</b> (Initials) 	
<b>Sample Condition</b> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No			

#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](http://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  
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. 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

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: 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, SM4500CI-B			mg/kg					Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>32.0</b>	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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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. 6 @ 8' (H400983-03)**

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	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 BTX	<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

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

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Cardinal Laboratories

\*=Accredited Analyte

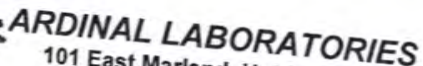
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---

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  
REC

## Page 6 of 6

<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																						
<b>Company Name:</b> RECS <b>Project Manager:</b> Jacob Kampel	<b>(505) 393-2326 FAX (505) 393-2476</b> HOBBS NM 88240    2111 Beechwood, Abilene, TX 79603 (325) 673-7001 FAX (325) 673-7020			P.O. #:	Chlorides TPH 8015 M BTEX Texas TPH Complete Cations/Anions TDS																					
<b>Address:</b>	<b>State:</b> NM <b>Zip:</b> 88240			<b>Company:</b>																						
<b>City:</b> Hobbs	<b>Fax #:</b>			<b>Attn:</b>																						
<b>Phone #:</b>	<b>Project Owner:</b>			<b>Address:</b>																						
<b>Project #:</b>	<b>Project Name:</b>			<b>City:</b>																						
<b>Sampler Name:</b> Kyle Humphrey	<b>Project Location:</b> Gissler A-2			<b>State:</b>	<b>Zip:</b>																					
<b>FOR LAB USE ONLY</b>				<b>Date:</b>		<b>Time:</b>																				
Lab I.D.	Sample I.D.	(G/RAB OR C/JOMP.) # CONTAINERS	MATRIX							PRESERV.	SAMPLING															
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	DATE	TIME														
H400983	PT+4 @ 1 Ft	G 1			✓					✓	J-31-N	9:10	✓	✓	✓											
	PT+5 @ 2 Ft	G 1			✓					✓	J-31-M	9:15	✓	✓	✓											
	PT+6 @ 8 Ft	G 1			✓					✓	J-31-H	10:00	✓	✓	✓											

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.

<b>Relinquished By:</b> [Signature]	<b>Date:</b> 12/14 <b>Time:</b> 3:30	<b>Received By:</b> [Signature] <b>Received By:</b> Jodi Benson	<b>Phone Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <b>Fax Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <b>REMARKS:</b> email results Knorman@rice-ecs.com Kjones@riceswd.com; jkampilain@rice-ecs.com hco der@rice-ecs.com; Lweinheimer@rice-ecs.com Khumphrey@rice-ecs.com sedwards@rice-ecs.com, lflores@rice-ecs.com;
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other:	<b>Sample Condition</b> Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>CHECKED BY:</b> (Initials) [Signature]	

† 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

#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](http://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

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 3' (H401329-03)**

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	
<b>Toluene*</b>	<b>0.087</b>	0.050	05/09/2014	ND	2.38	119	2.00	0.125	
<b>Ethylbenzene*</b>	<b>0.093</b>	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 BTX	<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	
<b>DRO &gt;C10-C28</b>	<b>194</b>	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*	<b>0.068</b>	0.050	05/09/2014	ND	2.24	112	2.00	0.819	
Total Xylenes*	<b>0.188</b>	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	<b>32.0</b>	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	<b>522</b>	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

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Cardinal Laboratories

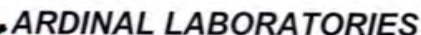
\*=Accredited Analyte

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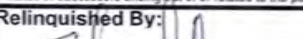
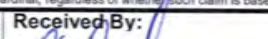
Celey D. Keene, Lab Director/Quality Manager



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 7 of 7

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Relinquished By: 		Date: <u>5/16/14</u> Time: <u>11:48</u>	Received By: 	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:
Relinquished By:		Date: Time:	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		2.4°C	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	REMARKS: email: hconder@riceswd.com; lflores@rice-ecs.com; lweinheimer@rice-ecs.com; knorman@rice-ecs.com; jkamplain@rice-ecs.com; sedwards@rice-ecs.com; cursanic@rice-ecs.com Environmental Tech: <u>ecesareo</u> @rice-ecs.com
			CHECKED BY: (Initials) <u>gph</u>	

† 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](http://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

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

\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager



RUSH  $\frac{1}{x} \frac{1}{x}$

### 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><b>PLEASE NOTE: Liability and Damages.</b> 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>			

December 05, 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 12/01/14 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://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: 12/01/2014  
Reported: 12/05/2014  
Project Name: GISSLER A-2  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 12/01/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: PT 3 @ 1.5' (H403667-01)**

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2014	ND	1.93	96.7	2.00	3.49	
Toluene*	<0.050	0.050	12/03/2014	ND	1.90	95.2	2.00	2.81	
Ethylbenzene*	<0.050	0.050	12/03/2014	ND	1.79	89.6	2.00	3.02	
Total Xylenes*	<0.150	0.150	12/03/2014	ND	5.42	90.4	6.00	3.67	
Total BTEx	<0.300	0.300	12/03/2014	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	80.0	16.0	12/02/2014	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/02/2014	ND	196	98.1	200	5.01	
DRO >C10-C28	<10.0	10.0	12/02/2014	ND	200	99.9	200	8.07	

Surrogate: 1-Chlorooctane 120 % 47.2-157

Surrogate: 1-Chlorooctadecane 135 % 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:	12/01/2014	Sampling Date:	12/01/2014
Reported:	12/05/2014	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 @ 1.5' (H403667-02)**

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/03/2014	ND	1.93	96.7	2.00	3.49		
Toluene*	<0.050	0.050	12/03/2014	ND	1.90	95.2	2.00	2.81		
Ethylbenzene*	<0.050	0.050	12/03/2014	ND	1.79	89.6	2.00	3.02		
Total Xylenes*	<0.150	0.150	12/03/2014	ND	5.42	90.4	6.00	3.67		
Total BTEx	<0.300	0.300	12/03/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	96.0	16.0	12/02/2014	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/02/2014	ND	196	98.1	200	5.01	
DRO >C10-C28	<10.0	10.0	12/02/2014	ND	200	99.9	200	8.07	

Surrogate: 1-Chlorooctane 120 % 47.2-157

Surrogate: 1-Chlorooctadecane 136 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Notes and Definitions**

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

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Cardinal Laboratories

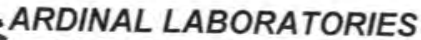
\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

#54

December 05, 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 12/02/14 16:45.

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](http://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: 12/02/2014  
Reported: 12/05/2014  
Project Name: GISSLER A-2  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 12/02/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: PT. 5 @ 2' (H403676-01)**

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2014	ND	1.96	97.8	2.00	2.18	
Toluene*	<0.050	0.050	12/04/2014	ND	1.93	96.5	2.00	1.89	
Ethylbenzene*	<0.050	0.050	12/04/2014	ND	1.83	91.7	2.00	1.94	
Total Xylenes*	<0.150	0.150	12/04/2014	ND	5.63	93.8	6.00	2.05	
Total BTX	<0.300	0.300	12/04/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	256	16.0	12/03/2014	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/03/2014	ND	199	99.7	200	0.672	
DRO >C10-C28	<10.0	10.0	12/03/2014	ND	205	102	200	1.18	

Surrogate: 1-Chlorooctane 118 % 47.2-157

Surrogate: 1-Chlorooctadecane 145 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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

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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager





# ARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO										ANALYSIS REQUEST													
Company Name: RECS										P.O. #:													
Project Manager: Laura Flores / Jacob Kamplain										Company:													
Address: 419 W Cain										Attn:													
City: Hobbs State: NM Zip: 88240										Address:													
Phone #: Fax #:										City:													
Project #: Project Owner:										State: Zip:													
Project Name: Burnett Gisser A-2 Battery										Phone #:													
Project Location:										Fax #:													
Sampler Name: Amber Groves																							
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		MATRIX		PRESERV.		SAMPLING		Chlorides		TPH 8015 M		BTX		Texas TPH		Complete Cations/Anions		TDS	
		H403676		1 Pt. 5 @ 2 ft		GROUNDWATER		SOIL		DATE		TIME											
						WASTEWATER		OIL		12-2-14		9:00		✓		✓		✓					
						SLUDGE		ACID/BASE															
						OTHER:		ICE / COOL															
								OTHER:															

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

Relinquished By:		Date: 12-2-14		Received By:		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:	
Amber Groves		Time: 4:45		Jodi Benson		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		hconder@rice-ecs.com; knorman@rice-ecs.com;			
Sampler - UPS - Bus - Other:		4°C		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		jkamplain@rice-ecs.com; regans@rice-ecs.com; lflores@rice-ecs.com;			
				Yes <input type="checkbox"/> No <input type="checkbox"/>		lweinheimer@rice-ecs.com; cursanic@rice-ecs.com			
				No <input type="checkbox"/> No <input type="checkbox"/>		environmental tech: agroves@rice-ecs.com			

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

#154

# Appendix C

## Corrective Action Labs

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

December 05, 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 12/03/14 16:00.

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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: 12/03/2014  
 Reported: 12/05/2014  
 Project Name: GISSLER A-2  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 12/03/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SOUTH WALL 1 (H403688-01)**

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2014	ND	1.91	95.5	2.00	2.41	
Toluene*	<0.050	0.050	12/04/2014	ND	1.89	94.5	2.00	1.78	
Ethylbenzene*	<0.050	0.050	12/04/2014	ND	1.81	90.4	2.00	2.07	
Total Xylenes*	<0.150	0.150	12/04/2014	ND	5.55	92.6	6.00	2.16	
Total BTX	<0.300	0.300	12/04/2014	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	48.0	16.0	12/04/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/04/2014	ND	199	99.5	200	0.653	
DRO >C10-C28	<10.0	10.0	12/04/2014	ND	204	102	200	0.660	

Surrogate: 1-Chlorooctane 122 % 47.2-157

Surrogate: 1-Chlorooctadecane 141 % 52.1-176

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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:	12/03/2014	Sampling Date:	12/03/2014
Reported:	12/05/2014	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: SOUTH WALL 2 (H403688-02)**

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2014	ND	1.91	95.5	2.00	2.41	
Toluene*	<0.050	0.050	12/04/2014	ND	1.89	94.5	2.00	1.78	
Ethylbenzene*	<0.050	0.050	12/04/2014	ND	1.81	90.4	2.00	2.07	
Total Xylenes*	<0.150	0.150	12/04/2014	ND	5.55	92.6	6.00	2.16	
Total BTX	<0.300	0.300	12/04/2014	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	352	16.0	12/04/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	12/04/2014	ND	199	99.5	200	0.653		
DRO >C10-C28	954	50.0	12/04/2014	ND	204	102	200	0.660		

Surrogate: 1-Chlorooctane 114 % 47.2-157

Surrogate: 1-Chlorooctadecane 179 % 52.1-176

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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: 12/03/2014  
Reported: 12/05/2014  
Project Name: GISSLER A-2  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 12/03/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SOUTH WALL 3 (H403688-03)**

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2014	ND	1.91	95.5	2.00	2.41	
Toluene*	<0.050	0.050	12/04/2014	ND	1.89	94.5	2.00	1.78	
Ethylbenzene*	<0.050	0.050	12/04/2014	ND	1.81	90.4	2.00	2.07	
Total Xylenes*	<0.150	0.150	12/04/2014	ND	5.55	92.6	6.00	2.16	
Total BTX	<0.300	0.300	12/04/2014	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	624	16.0	12/04/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	12/04/2014	ND	199	99.5	200	0.653	
DRO >C10-C28	843	50.0	12/04/2014	ND	204	102	200	0.660	

Surrogate: 1-Chlorooctane 134 % 47.2-157

Surrogate: 1-Chlorooctadecane 171 % 52.1-176

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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:	12/03/2014	Sampling Date:	12/03/2014
Reported:	12/05/2014	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: NORTH WALL 1 (H403688-04)**

BTX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/04/2014	ND	1.91	95.5	2.00	2.41		
Toluene*	<0.050	0.050	12/04/2014	ND	1.89	94.5	2.00	1.78		
Ethylbenzene*	<0.050	0.050	12/04/2014	ND	1.81	90.4	2.00	2.07		
Total Xylenes*	<0.150	0.150	12/04/2014	ND	5.55	92.6	6.00	2.16		
Total BTX	<0.300	0.300	12/04/2014	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	48.0	16.0	12/04/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/04/2014	ND	199	99.5	200	0.653	
DRO >C10-C28	124	10.0	12/04/2014	ND	204	102	200	0.660	

Surrogate: 1-Chlorooctane 125 % 47.2-157

Surrogate: 1-Chlorooctadecane 147 % 52.1-176

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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: 12/03/2014  
Reported: 12/05/2014  
Project Name: GISSLER A-2  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 12/03/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: NORTH WALL 2 (H403688-05)**

BTX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/04/2014	ND	1.91	95.5	2.00	2.41		
Toluene*	<0.050	0.050	12/04/2014	ND	1.89	94.5	2.00	1.78		
Ethylbenzene*	<0.050	0.050	12/04/2014	ND	1.81	90.4	2.00	2.07		
Total Xylenes*	<0.150	0.150	12/04/2014	ND	5.55	92.6	6.00	2.16		
Total BTX	<0.300	0.300	12/04/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	12/04/2014	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/04/2014	ND	199	99.5	200	0.653	
DRO >C10-C28	<10.0	10.0	12/04/2014	ND	204	102	200	0.660	

Surrogate: 1-Chlorooctane 127 % 47.2-157

Surrogate: 1-Chlorooctadecane 143 % 52.1-176

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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: 12/03/2014  
Reported: 12/05/2014  
Project Name: GISSLER A-2  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 12/03/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: NORTH WALL 3 (H403688-06)**

BTX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/04/2014	ND	1.91	95.5	2.00	2.41		
Toluene*	<0.050	0.050	12/04/2014	ND	1.89	94.5	2.00	1.78		
Ethylbenzene*	<0.050	0.050	12/04/2014	ND	1.81	90.4	2.00	2.07		
Total Xylenes*	<0.150	0.150	12/04/2014	ND	5.55	92.6	6.00	2.16		
Total BTX	<0.300	0.300	12/04/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/04/2014	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/04/2014	ND	199	99.5	200	0.653	
DRO >C10-C28	<10.0	10.0	12/04/2014	ND	204	102	200	0.660	

Surrogate: 1-Chlorooctane 130 % 47.2-157

Surrogate: 1-Chlorooctadecane 146 % 52.1-176

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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: 12/03/2014  
Reported: 12/05/2014  
Project Name: GISSLER A-2  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 12/03/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: WEST WALL (H403688-07)**

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/04/2014	ND	1.91	95.5	2.00	2.41		
Toluene*	<0.050	0.050	12/04/2014	ND	1.89	94.5	2.00	1.78		
Ethylbenzene*	<0.050	0.050	12/04/2014	ND	1.81	90.4	2.00	2.07		
Total Xylenes*	<0.150	0.150	12/04/2014	ND	5.55	92.6	6.00	2.16		
Total BTEx	<0.300	0.300	12/04/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	448	16.0	12/04/2014	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	12/04/2014	ND	199	99.5	200	0.653		
DRO >C10-C28	796	50.0	12/04/2014	ND	204	102	200	0.660		

Surrogate: 1-Chlorooctane 133 % 47.2-157

Surrogate: 1-Chlorooctadecane 197 % 52.1-176

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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:	12/03/2014	Sampling Date:	12/03/2014
Reported:	12/05/2014	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: EAST WALL (H403688-08)**

BTX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/04/2014	ND	1.91	95.5	2.00	2.41		
Toluene*	<0.050	0.050	12/04/2014	ND	1.89	94.5	2.00	1.78		
Ethylbenzene*	<0.050	0.050	12/04/2014	ND	1.81	90.4	2.00	2.07		
Total Xylenes*	<0.150	0.150	12/04/2014	ND	5.55	92.6	6.00	2.16		
Total BTX	<0.300	0.300	12/04/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	48.0	16.0	12/04/2014	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/04/2014	ND	199	99.5	200	0.653	
DRO >C10-C28	<10.0	10.0	12/04/2014	ND	204	102	200	0.660	

Surrogate: 1-Chlorooctane 124 % 47.2-157

Surrogate: 1-Chlorooctadecane 141 % 52.1-176

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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

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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**

BILL TO										ANALYSIS REQUEST																																	
Company Name: RECS										P.O. #:																																	
Project Manager: Laura Flores / Jacob Kamplain										Company:																																	
Address: 419 W Cain										Attn:																																	
City: Hobbs State: NM Zip: 88240										Address:																																	
Phone #: Fax #:										City:																																	
Project #: Project Owner:										State: Zip:																																	
Project Name: Burnet Gessler A-2 Battery										Phone #:																																	
Project Location:										Fax #:																																	
Sampler Name: Amber Groves																																											
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		(G)RAB 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	
H403688		1		South wall 1		G		1						✓										✓		✓		✓		✓		✓		✓		✓		✓					
		2		South wall 2		G		1						✓										✓		✓		✓		✓		✓		✓		✓		✓					
		3		South wall 3		G		1						✓										✓		✓		✓		✓		✓		✓		✓		✓					
		4		North wall 1		G		1						✓										✓		✓		✓		✓		✓		✓		✓		✓					
		5		North wall 2		G		1						✓										✓		✓		✓		✓		✓		✓		✓		✓					
		6		North wall 3		G		1						✓										✓		✓		✓		✓		✓		✓		✓		✓					
		7		West wall		G		1						✓										✓		✓		✓		✓		✓		✓		✓		✓					
		8		East wall		G		1						✓										✓		✓		✓		✓		✓		✓		✓		✓					

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Relinquished By: <i>Amber Groves</i>		Date: 12-3-14		Received By: <i>Jodi Benson</i>		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:	
Relinquished By:		Time: 4:00		Received By:		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:	
Delivered By: (Circle One)		Time:		Sample Condition		REMARKS:			
Sampler - UPS - Bus - Other:		4.20		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		email results:			
				Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		hconder@rice-ecs.com; knorman@rice-ecs.com;			
				CHECKED BY: <i>JA</i>		jkamplain@rice-ecs.com; regans@rice-ecs.com; lflores@rice-ecs.com;			
						lweinheimer@rice-ecs.com; cursanic@rice-ecs.com			
						environmental tech: agroves@rice-ecs.com			

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

#54

December 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 12/08/14 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://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:	12/08/2014	Sampling Date:	12/08/2014
Reported:	12/09/2014	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: 6" SCRAPE 2 PT. BTM COMP (H403739-01)**

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	12/09/2014	ND	1.87	93.7	2.00	3.16	
Toluene*	<0.050	0.050	12/09/2014	ND	1.72	86.2	2.00	3.97	
Ethylbenzene*	<0.050	0.050	12/09/2014	ND	1.63	81.5	2.00	1.82	
Total Xylenes*	<0.150	0.150	12/09/2014	ND	4.90	81.6	6.00	2.34	
Total BTX	<0.300	0.300	12/09/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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	12/09/2014	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	12/09/2014	ND	205	102	200	0.0332	
DRO >C10-C28	154	10.0	12/09/2014	ND	214	107	200	2.07	

Surrogate: 1-Chlorooctane 147 % 47.2-157

Surrogate: 1-Chlorooctadecane 174 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Notes and Definitions**

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

---

Cardinal Laboratories

\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager



\*rusty\*

## Page 4 of 4

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

#54

December 11, 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 12/08/14 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://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: 12/08/2014  
Reported: 12/11/2014  
Project Name: GISSLER A-2  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 12/08/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: IMPORTED TOPSOIL (H403740-01)****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	12/09/2014	ND	400	100	400	0.00	

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





### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Relinquished By: <i>[Signature]</i>		Date: 12-8-14	Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:		Time: 4:00	Received By:		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
		Date:			REMARKS:	
		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: agroves@rice-ecs.com	
Delivered By: (Circle One)			Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:			Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/>	(Initials) <i>[Signature]</i>		

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

#54

December 17, 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 12/16/14 11:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://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:	12/16/2014	Sampling Date:	12/15/2014
Reported:	12/17/2014	Sampling Type:	Soil
Project Name:	GISSLER A-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	NOT GIVEN		

**Sample ID: 5 PT. COMP IN BATTERY @ 8" (H403820-01)**

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	12/16/2014	ND	1.82	91.1	2.00	8.15	
<b>Toluene*</b>	<b>0.437</b>	0.050	12/16/2014	ND	1.79	89.3	2.00	8.31	
<b>Ethylbenzene*</b>	<b>0.998</b>	0.050	12/16/2014	ND	1.70	85.2	2.00	8.56	
<b>Total Xylenes*</b>	<b>2.32</b>	0.150	12/16/2014	ND	5.18	86.3	6.00	8.51	
<b>Total BTX</b>	<b>3.76</b>	0.300	12/16/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>512</b>	16.0	12/17/2014	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
<b>GRO C6-C10</b>	<b>94.3</b>	10.0	12/17/2014	ND	194	97.1	200	0.234	
<b>DRO &gt;C10-C28</b>	<b>2810</b>	10.0	12/17/2014	ND	195	97.7	200	0.102	

Surrogate: 1-Chlorooctane 92.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 113 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

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

---

Cardinal Laboratories

\*=Accredited Analyte

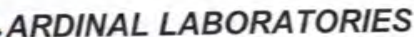
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived 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





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

**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: <i>Kyle Schmitt</i>		Date: <i>12-16-14</i> Time: <i>11:50</i>		Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: Add'l Fax #: REMARKS: <i>gfitsworth@burnettco.il.com</i>	
Relinquished By:		Date: Time:		Received By:		email: <i>hconder@riceswd.com; kjones@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</i> Environmental Tech: <i>K Schmitt</i> @rice-ecs.com	
Delivered By: (Circle One)				Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		CHECKED BY: (Initials) <i>[Signature]</i>	
Sampler - UPS - Bus - Other: <i>2.4C #54</i>							

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

~~\* BUSH \*~~

# Appendix D

## 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





Shoveling inside battery, facing southwest 11/20/14



Shoveling inside battery, facing southeast 11/21/14



Excavating to 1.5 ft, facing southwest 11/24/14



Exporting soil, facing southeast 11/25/14





Shoveling on pad, facing northeast 11/25/14



Excavating to 2 ft, facing southwest 11/25/14



Excavating to 4 ft, facing northeast 12/1/14



2 ft excavation completed, facing southwest 12/2/14





2 ft excavation completed, facing northeast 12/2/13



Excavating to 3 ft, facing southwest 12/3/14



Scraping to 1ft, facing east 12/4/14



Shoveling to 1ft, facing southwest 12/4/14





Shoveling inside battery, facing northeast 12/8/14



Scraping to 6 in, facing southeast 12/8/14



Importing top soil, facing south 12/9/14



Scrape inside battery completed, facing north 12/12/14





Scrape inside battery completed, facing east 12/12/14



Scrape inside battery completed, facing northwest  
12/12/14



Importing caliche, facing southwest 12/12/14



4 ft excavation completed, facing northeast 12/15/14

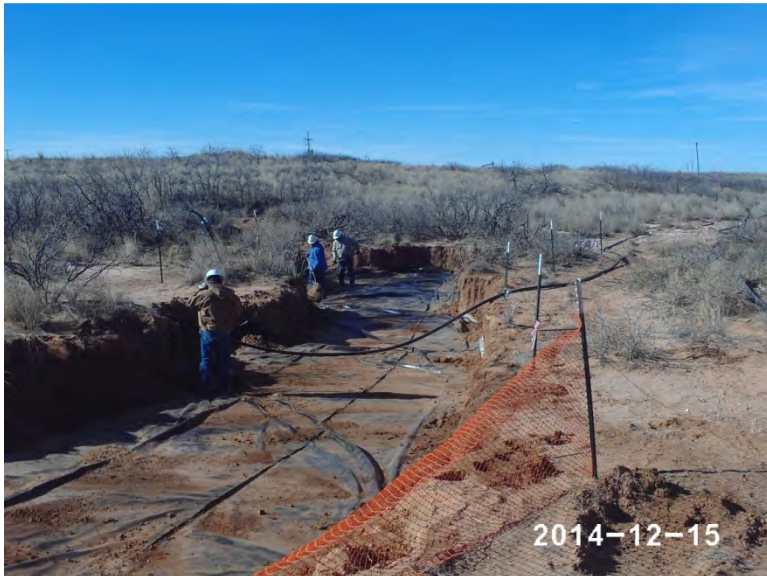




4 ft excavation completed, facing west 12/15/14



Installing liner, facing northwest 12/15/14



Liner installation completed, facing west 12/15/14



Backfilling scrape in road, facing west 12/16/14





Creating berms around battery, facing southwest  
12/17/14



Backfilling over liner, facing east  
12/17/14



Backfilling 3 ft excavation, facing south  
12/18/14



Backfilling 2 ft excavation, facing west  
12/22/14



Backfilling 1.5 ft excavation, facing northwest 12/29/14



Spreading soil amendments, facing north 1/7/15



Disking in amendments, facing north 1/7/15



Seeding site, facing northwest 1/7/15





Seeding site, facing northeast

1/7/15



Seeding site, facing north

1/7/15



Backfilling battery, facing southeast

1/8/15



Backfilling battery, facing northwest

1/8/15



Battery backfilled, facing southwest

1/12/15



Battery backfilled, facing south

1/12/15



# 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 Street -Suite 1500, Ft. Worth, TX 76102	Telephone No.	817-583-8730
Facility Name	Gissler A-2 Battery	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-33498

**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	If YES, To Whom?	Mike Bratcher - NMOC; Mike Burton - BLM		
By Whom?	Jacob Kamplain - RECS	Date and Hour	3/20/14 11:22 am		
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 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 sq ft of bermed battery, lease road and pasture land was affected by the release. RECS personnel were on site beginning on March 20<sup>th</sup>, 2014, to assess the release. Based on the assessment, eight samples points from within the release were sampled at the surface and with depth. Representative samples from each sample point were taken to a commercial laboratory for analysis. Once the initial sampling was completed, a CAP was submitted to NMOC and BLM on November 4<sup>th</sup>, 2014. Both NMOC and BLM approved the CAP on November 5<sup>th</sup>, 2014; however both agencies imposed stipulations in conjunction with their approvals. Corrective action activities began at the site on November 20<sup>th</sup>, 2014. The release area was scraped in seven portions. In total, 1,332 cubic yards of contaminated soil from the pasture areas and the battery were taken to a NMOC approved facility for disposal. Once the 8 inch scrape in the battery and the 6 inch scrape over the caliche road were completed, bottom composite samples from each scrape were taken and sent to a commercial laboratory for analyses. Once the excavation to 4 ft bgs around Point 6 was completed, 8 wall samples were taken from the completed excavation and sent to a commercial laboratory for analyses. On December 12<sup>th</sup>, 2014, a request to install the 20-mil reinforced poly liner in the 4 ft excavation and to backfill the excavations outside the facility was sent to NMOC and BLM for their approval. BLM approved the request on December 12<sup>th</sup>, 2014, and NMOC approved the request on December 18<sup>th</sup>, 2014. On December 15<sup>th</sup>, 2014, a 20-mil reinforced poly liner was installed and properly seated into the base of the 4 ft excavation. A total of 1,640 cubic yards of top soil was imported to the site to backfill the pasture areas. A sample of this imported top soil was taken to a commercial laboratory and returned a chloride value of non-detect. The pasture area was backfilled with the imported top soil and contoured to the surrounding location. On December 22<sup>nd</sup>, 2014, a request to backfill the battery was sent to NMOC and BLM. NMOC approved the request on December 26<sup>th</sup>, 2014, and BLM approved the request on January 5<sup>th</sup>, 2015. A total of 444 cubic yards of caliche was imported to the site to backfill the battery and build berms. On January 7<sup>th</sup>, 2014, soil amendments were added to the disturbed areas in the pasture, and then the areas were seeded with LPC mix.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC 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, NMOC acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

**OIL CONSERVATION DIVISION**

Signature: *Leslie Garvis*

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Date: 2/13/15

Phone: 817-583-8730

Approved by Environmental Specialist:

Approval Date:

Expiration Date:

Conditions of Approval:

Attached ☐