

**November 11<sup>th</sup>, 2014**

**Mike Bratcher**

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

**RE: Termination Request  
Burnett Oil Co – Gissler A 46 (2RP-2241)  
UL/A sec. 23 T17S R30E  
API No. 30-015-41544**

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 2.6 miles northeast of Loco Hills, New Mexico at UL/A sec. 23 T17S R30E. This site is in an area of no known groundwater.

On December 17<sup>th</sup>, 2013, Burnett discovered a release of 25 barrels of oil and water from a flow line that covered 2,354 square feet of pasture land. The well was shut in and the line replaced. A vacuum truck was called to the site and a total of 20 barrels of oil and water were recovered. An initial C-141 was sent to NMOCD and approved on April 2<sup>nd</sup>, 2014 (Appendix A).

Prior to RECS receiving this release to remediate, another environmental company submitted a Work Plan to NMOCD and BLM in January 2014. The Work Plan recommended that the contaminated soil be excavated and taken to a NMOCD approved facility for disposal. Prior to backfilling the site, the bottom and walls of the excavation would be sampled to determine that all constituents were below regulatory guidelines. BLM approved the Work Plan with stipulations on January 9<sup>th</sup>, 2014. BLM required horizontal and vertical remediation efforts. Confirmation sampling of the walls and bottom of the excavation were required, and BLM must approve the laboratory analysis prior to the site being backfilled. The excavation needed to be backfilled with clean soil and contoured to the surrounding location. The top two feet of the excavation needed to be backfilled with top soil similar to that in the surrounding native terrain. The site needed to be seeded with BLM seed mix #2 and #4 in a 50/50 ratio or with LPC mix.

Corrective actions began at the site on April 11<sup>th</sup>, 2014. The release area was scraped to a depth of 1.5 ft bgs (Figure 1). A total of 156 cubic yards of contaminated soil was taken to a NMOCD approved facility for disposal. At the base of the scrape a 5 point bottom composite was taken and sent to a commercial laboratory for analysis (Appendix B). The 5 point bottom composite

returned a laboratory chloride reading of 320 mg/kg, a DRO reading of 30.6 mg/kg and GRO and BTEX readings of non-detect. Final grab samples were taken from the walls of the excavation and sent to a commercial laboratory for analysis. The north wall returned a laboratory chloride reading of 16 mg/kg, the south wall returned a laboratory chloride reading of 464 mg/kg, the east wall returned a laboratory chloride reading of 32 mg/kg and the west wall returned a laboratory chloride reading of non-detect. GRO, DRO and BTEX returned values of non-detect, except for the DRO value from the east wall, which returned a value of 12.7 mg/kg.

BLM approved the site to be backfilled on May 15<sup>th</sup>, 2014. A total of 252 cubic yards of top soil was imported to the site to serve as backfill. A 5 point composite of the imported top soil was taken to a commercial laboratory and returned a chloride reading of non-detect. The scrape was backfilled with the imported soil and contoured to the surrounding location. On May 21<sup>st</sup>, 2014, the site was seeded with LPC mix and the seed was raked into the soil.

Photo documentation of these activities can be found in Appendix C.

Given that the site was scraped as prescribed by the approved Work Plan, and the contaminated soil was replaced with clean, imported soil, Burnett respectfully requests 'remediation termination' and site closure. A final C-141 can be found in Appendix D.

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 cursive script, appearing to read 'L. Weinheimer', followed by a long horizontal flourish.

Lara Weinheimer  
Project Scientist  
RECS  
(575) 441-0431

Attachments:

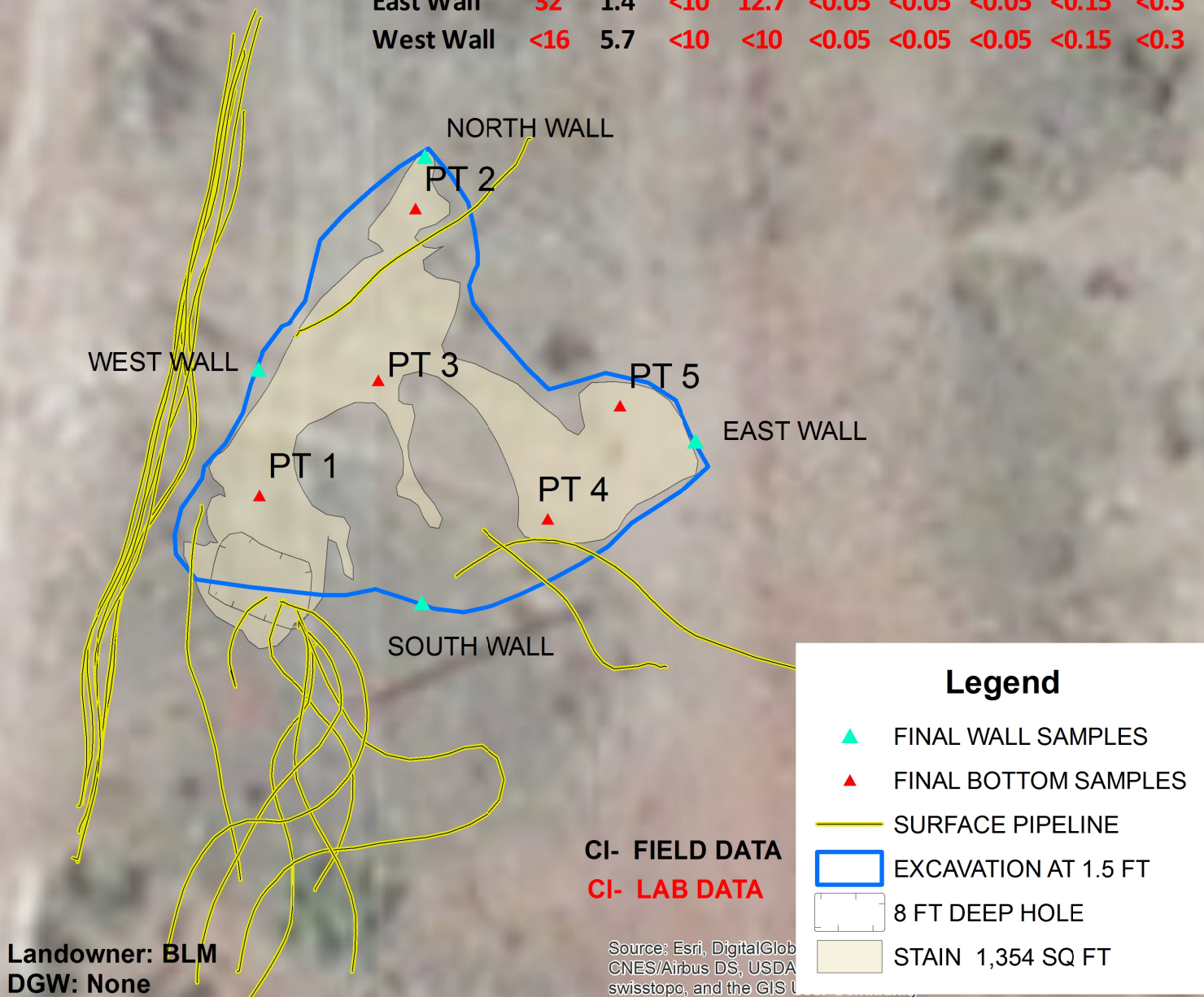
- Figure 1 – Excavation Data
- Appendix A – Initial C-141
- Appendix B – Excavation Labs
- Appendix C – Photo Documentation
- Appendix D – Final C-141

# Figures

# Excavation Data

Scrape at 1.5 ft									
	CI-	PID	GRO	DRO	B	T	E	X	BTEX
5 point composite	320	8.4	<10	30.6	<0.05	<0.05	<0.05	<0.15	<0.3

	CI-	PID	GRO	DRO	B	T	E	X	BTEX
North Wall	16	1.3	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
South Wall	464	0.5	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
East Wall	32	1.4	<10	12.7	<0.05	<0.05	<0.05	<0.15	<0.3
West Wall	<16	5.7	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3



# Appendix A

Initial C-141



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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised August 8, 2011

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	Belton Mathews
Address	801 Cherry Street, Fort Worth, Texas 76102	Telephone No.	817-332-5108 X201
Facility Name	Gissler A 46	Facility Type	Well
Surface Owner	BLM	Mineral Owner	BLM
		API No.	30-015-41544

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	23	17S	30E	330	North	330	East	Eddy

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

**NATURE OF RELEASE**

Type of Release	Mix of Oil & Water	Volume of Release	Approx 25 bbls	Volume Recovered	20 bbls
Source of Release	Ruptured Flowline	Date and Hour of Occurrence	12/17/13 5:00am	Date and Hour of Discovery	
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?	Belton Mathews	Date and Hour 12/17/2013 6:00am			
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.* High line pressure caused line to rupture. Shut off well and replaced line.					
Describe Area Affected and Cleanup Action Taken.* Clean up plan attached.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Signature: 		<u>OIL CONSERVATION DIVISION</u>			
Printed Name: Leslie Garvis		Approved by Environmental Specialist:			
Title: Regulatory Coordinator		Approval Date:		Expiration Date:	
E-mail Address: lgarvis@burnettoil.com		Conditions of Approval:		Attached <input type="checkbox"/>	
Date: 1/28/14		Phone: 817-332-5108			

\* Attach Additional Sheets If Necessary

# Appendix B

## Excavation Labs

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



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

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April 24, 2014

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: GISSLER A LEASE

Enclosed are the results of analyses for samples received by the laboratory on 04/21/14 10:05.

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:	04/21/2014	Sampling Date:	04/16/2014
Reported:	04/24/2014	Sampling Type:	Soil
Project Name:	GISSLER A LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: 5 PT COMP 1.5' EXCAVATION (H401174-01)**

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	04/22/2014	ND	2.29	115	2.00	2.53		
Toluene*	<0.050	0.050	04/22/2014	ND	2.16	108	2.00	2.19		
Ethylbenzene*	<0.050	0.050	04/22/2014	ND	2.14	107	2.00	2.07		
Total Xylenes*	<0.150	0.150	04/22/2014	ND	6.22	104	6.00	1.49		
Total BTEX	<0.300	0.300	04/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 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	320	16.0	04/22/2014	ND	416	104	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	04/22/2014	ND	184	91.9	200	5.44	
DRO >C10-C28	30.6	10.0	04/22/2014	ND	195	97.7	200	3.58	

Surrogate: 1-Chlorooctane 95.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.2 % 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

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\*=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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Relinquished By:		Date:	Received By:	Phone Result:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Add'l Phone #:
Kyle Schmaide		4-17-14		Fax Result:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS:			
		4-21	J. Jacobson	email results			
Delivered By: (Circle One)		Time:		Knorman@rice-ecs.com Kschmaide@rice-ecs.com			
Sampler - UPS - Bus - Other:		10:05		Kjones@riceswd.com; jkamplain@rice-ecs.com			
2-600		Sample Condition	CHECKED BY:	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com			
		Cool Intact	(Initials)				
		<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes	J.Y				
		<input type="checkbox"/> No <input type="checkbox"/> No					

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

# S4



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

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May 27, 2014

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: GISSLER A LEASE

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 05/16/2014  
Reported: 05/27/2014  
Project Name: GISSLER A LEASE  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 05/15/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: 5 PT. COMP IMPORT TOPSOIL (H401518-01)****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	05/23/2014	ND	416	104	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

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Cardinal Laboratories

\*=Accredited Analyte

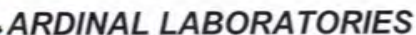
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived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



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Celey D. Keene, Lab Director/Quality Manager





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Relinquished By: <i>Kyle Schmidt</i>		Date: <i>5-16-14</i>	Received By: <i>Jodi Benson</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:		Time: <i>4:15</i>	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:		<i>5.20c</i>	Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	email: hconder@riceswd.com; lflores@rice-ecs.com; lweinheimer@rice-ecs.com; knorman@rice-ecs.com; jkamplain@rice-ecs.com; sedwards@rice-ecs.com; cursanic@rice-ecs.com Environmental Tech: <i>K Schmidt</i> @rice-ecs.com	
			CHECKED BY: (Initials) <i>JS</i>		

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#54



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

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June 12, 2014

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: GISSLER A LEASE

Enclosed are the results of analyses for samples received by the laboratory on 06/11/14 16:15.

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

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

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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: 06/11/2014  
Reported: 06/12/2014  
Project Name: GISSLER A LEASE  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 06/11/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: NORTH WALL (H401788-01)**

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	06/12/2014	ND	1.96	97.8	2.00	3.08	
Toluene*	<0.050	0.050	06/12/2014	ND	2.09	105	2.00	3.06	
Ethylbenzene*	<0.050	0.050	06/12/2014	ND	1.89	94.6	2.00	3.08	
Total Xylenes*	<0.150	0.150	06/12/2014	ND	5.94	99.0	6.00	2.18	
Total BTEX	<0.300	0.300	06/12/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/12/2014	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	<10.0	10.0	06/12/2014	ND	192	96.0	200	4.69	
DRO >C10-C28	<10.0	10.0	06/12/2014	ND	187	93.7	200	2.60	

Surrogate: 1-Chlorooctane 65.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 76.8 % 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:	06/11/2014	Sampling Date:	06/11/2014
Reported:	06/12/2014	Sampling Type:	Soil
Project Name:	GISSLER A LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SOUTH WALL (H401788-02)**

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	06/12/2014	ND	1.96	97.8	2.00	3.08	
Toluene*	<0.050	0.050	06/12/2014	ND	2.09	105	2.00	3.06	
Ethylbenzene*	<0.050	0.050	06/12/2014	ND	1.89	94.6	2.00	3.08	
Total Xylenes*	<0.150	0.150	06/12/2014	ND	5.94	99.0	6.00	2.18	
Total BTX	<0.300	0.300	06/12/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	464	16.0	06/12/2014	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	<10.0	10.0	06/12/2014	ND	192	96.0	200	4.69	
DRO >C10-C28	<10.0	10.0	06/12/2014	ND	187	93.7	200	2.60	

Surrogate: 1-Chlorooctane 73.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 80.4 % 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:	06/11/2014	Sampling Date:	06/11/2014
Reported:	06/12/2014	Sampling Type:	Soil
Project Name:	GISSLER A LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: EAST WALL (H401788-03)**

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2014	ND	1.96	97.8	2.00	3.08		
Toluene*	<0.050	0.050	06/12/2014	ND	2.09	105	2.00	3.06		
Ethylbenzene*	<0.050	0.050	06/12/2014	ND	1.89	94.6	2.00	3.08		
Total Xylenes*	<0.150	0.150	06/12/2014	ND	5.94	99.0	6.00	2.18		
Total BTEx	<0.300	0.300	06/12/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	06/12/2014	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	<10.0	10.0	06/12/2014	ND	192	96.0	200	4.69	
DRO >C10-C28	12.7	10.0	06/12/2014	ND	187	93.7	200	2.60	

Surrogate: 1-Chlorooctane 65.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 74.3 % 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:	06/11/2014	Sampling Date:	06/11/2014
Reported:	06/12/2014	Sampling Type:	Soil
Project Name:	GISSLER A LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: WEST WALL (H401788-04)**

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	06/12/2014	ND	1.96	97.8	2.00	3.08		
Toluene*	<0.050	0.050	06/12/2014	ND	2.09	105	2.00	3.06		
Ethylbenzene*	<0.050	0.050	06/12/2014	ND	1.89	94.6	2.00	3.08		
Total Xylenes*	<0.150	0.150	06/12/2014	ND	5.94	99.0	6.00	2.18		
Total BTX	<0.300	0.300	06/12/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/12/2014	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	<10.0	10.0	06/12/2014	ND	192	96.0	200	4.69	
DRO >C10-C28	<10.0	10.0	06/12/2014	ND	187	93.7	200	2.60	

Surrogate: 1-Chlorooctane 69.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 77.5 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Notes and Definitions**

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

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Celey D. Keene, Lab Director/Quality Manager



# 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

RUSA X

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>RECS</b>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																			
Project Manager: <b>Laura Flores, Jacob Kamplain</b>				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div>Chlorides</div> <div>TPH 8015 M</div> <div>BTEX</div> <div>Texas TPH</div> <div>Complete Cations/Anions</div> <div>TDS</div> </div>																			
Address:				Company:																							
City: Hobbs State: NM Zip: 88240				Attn:																							
Phone #: Fax #:				Address:																							
Project #: Project Owner:				City:																							
Project Name:				State: Zip:																							
Project Location: <b>Gissler A Lease</b>				Phone #:																							
Sampler Name: <b>Kyle Schnaidt</b>				Fax #:																							
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																	
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													
<b>H401788</b>																											
1	North Wall	G	1			X					X		6-11-14	11:00	X	X	X										
2	South Wall	G	1			X					X		S	11:05	X	X	X										
3	East Wall	G	1			X					X			11:10	X	X	X										
4	West Wall	G	1			X					X			11:15	X	X	X										

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Relinquished By:	Date: <b>6-11-14</b> Time: <b>4:15</b>	Received By: <b>Jodi Benson</b>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:
Relinquished By: <b>Kyle Schnaidt</b>	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:		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) <b>JS</b>
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: @rice-ecs.com

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

#54

# Appendix C

## Photo Documentation

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



# Burnett Oil Gissler A 46

Unit Letter A, Section 23, T17S, R30E



Initial site photo, facing east

2/24/14



Initial site photo, facing west

2/24/14



Initial site photo, facing south

2/24/14



Initial site photo, facing southeast

2/24/14





Removing extant soil pile, facing southeast 4/11/14



Place soil pile on plastic, facing northeast 4/11/14



Scraping site down 1 ft bgs, facing east 4/14/14



Exporting soil, facing north 4/14/14



Scraping site down to 1.5 ft bgs, facing southwest  
4/15/14



Scrape completed, facing southwest  
5/12/14



Importing top soil, facing southwest  
5/12/14



Backfilling site, facing northwest  
5/14/14





Backfilling completed, facing southeast 5/15/14



Backfilling completed, facing northwest 5/15/14



Seeding site with LPC mix, facing northwest 5/21/14



Raking seed into the soil, facing north 5/21/14



Site completed, facing northwest

5/21/14



Site completed, facing southwest

5/21/14

# Appendix D

Final C-141

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