

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,

JUNI

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

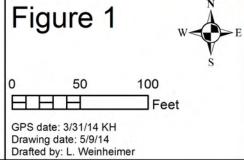
Appendix E – Final C-141

# Figures

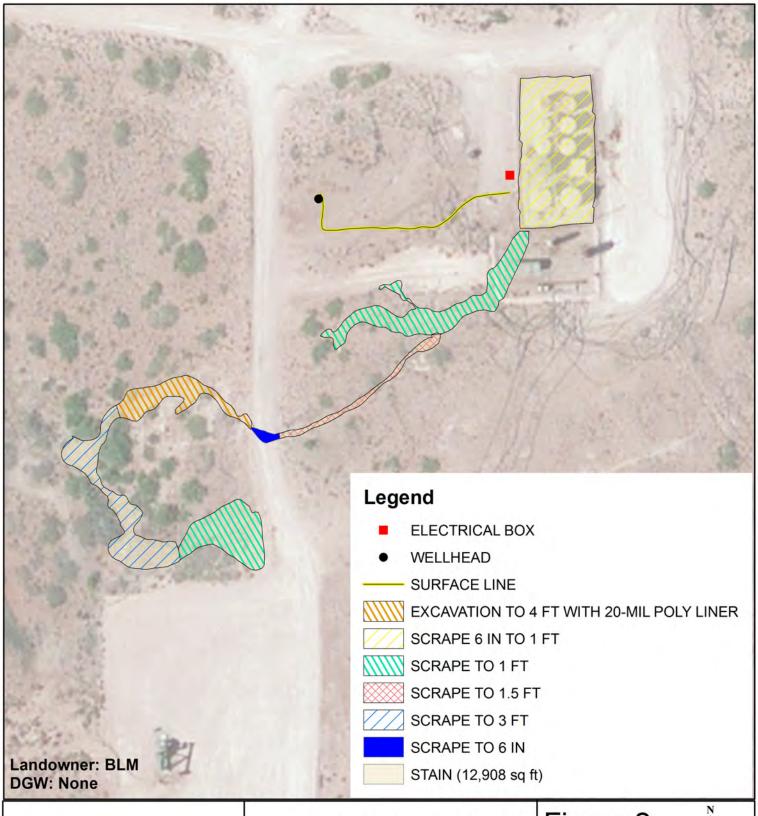
**Initial Sampling Data** Point 1 DRO BTEX 1395 479 102.5 19.2 Point 2 PID GRO DRO CI-4250 13100 49200 73.6 1460 1100 PID GRO DRO BTEX CI-396.9 78.7 <0.05 <0.05 <0.05 <0.05 <0.15 4.7 <10 <10 Point 4 PID GRO DRO 390.2 SS 6" 21.2 1' Point 5 CI-PID GRO DRO 4,609 sq ft 388.5 324.5 30.4 1.5' 4.5 <10 <0.05 <0.05 8,299 sq ft PID **BTEX** SS 294.8 400.5 87 2646 1.5' 91 4221 2' 92 5000 5000 975 < 0.05 Point 6 Point 8 DRO GRO CI-PID BTEX GRO DRO 5000 1.31 275.6 10.9 <16 <0.05 <0.05 <0.05 <0.15 108 <0.05 <0.05 6860 7299 5 7952 8025 3999 5024 3295 2410 4.9 2217 1333 3.3 6.5 3028 3 960 2.5 Legend 1940 3.2 <10 <0.05 <0.05 <0.05 <0.15 <0.3 <10 SAMPLE POINT CI- FIELD DATA **ELECTRICAL BOX** CI- LAB DATA **WELLHEAD** SURFACE LINE Landowner: BLM STAIN (12,908 sq ft) Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geo AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the **DGW: None** Figure 1 **BURNETT** GISSLER A-2 BATTERY 100 50 UL J & O SECTION 14 Feet



T-17-S R-30-E **EDDY COUNTY, NM** 



## **Proposed Corrective Actions**





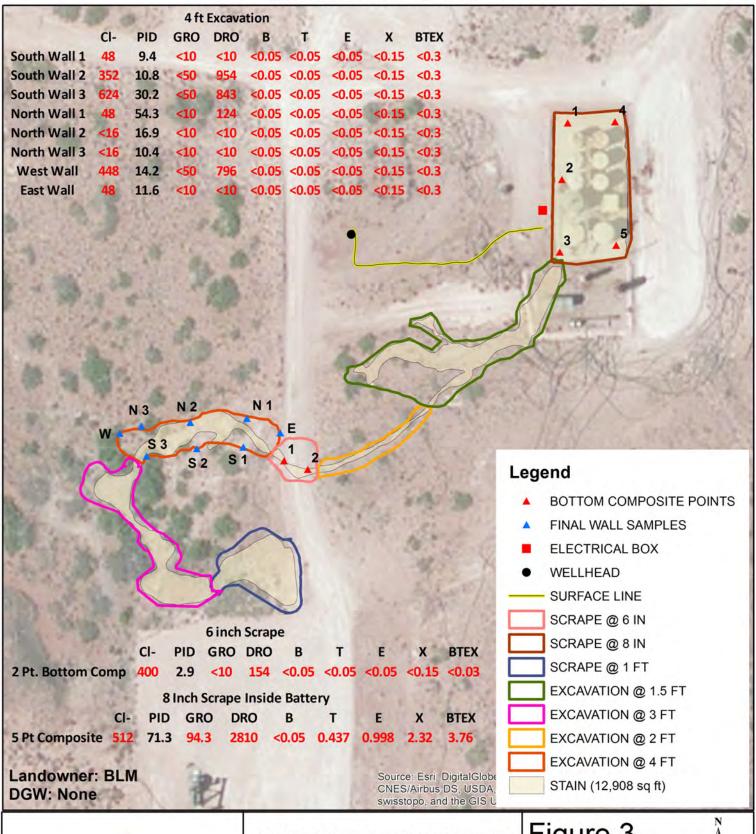
# BURNETT GISSLER A-2 BATTERY

UL J & O SECTION 14 T-17-S R-30-E EDDY COUNTY, NM

# Figure 2 0 50 100 H H H Feet GPS date: 3/31/14 KH

GPS date: 3/31/14 KH Drawing date: 5/9/14, 10/8/14 Drafted by: L. Weinheimer

### **Excavation Data**





### BURNETT GISSLER A-2 BATTERY

ULJ&O SECTION 14 T-17-S R-30-E EDDY COUNTY, NM

# Figure 3



100 50 Feet

GPS date: 12/5,8/14 AG Drawing date: 12/22/14

Drafted by: T. Grieco; L. Weinheimer

# Appendix A Initial C-141

District I 1625 N. French Dr., Hobbs, NM 88240 District II

State of New Mexico

Form C-141 Revised August 8, 2011

District II 811 S. First St., Artesia, NM 88210 MAR 2 4 2014 Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr.

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

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

Santa Fe, NM 87505

nHMPI											
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		ake Rd., Lo		VM 88255			No. (575) 219-0	5370			
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Surface Ov	vner BLM			Mineral O	wner		- 1		API No	. 30-015-3	33498
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# Appendix B Initial Sampling Labs



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 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. 1 @ SURFACE (H400911-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	41.6	5.00	04/01/2014	ND	2.28	114	2.00	8.45	
Toluene*	170	5.00	04/01/2014	ND	2.18	109	2.00	8.38	
Ethylbenzene*	116	5.00	04/01/2014	ND	2.13	106	2.00	8.60	
Total Xylenes*	152	15.0	04/01/2014	ND	6.26	104	6.00	7.23	
Total BTEX	479	30.0	04/01/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	04/02/2014	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	5470	100	03/31/2014	ND	222	111	200	9.86	
DRO >C10-C28	27500	100	03/31/2014	ND	198	99.0	200	1.31	
Surrogate: 1-Chlorooctane	198 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	753 9	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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



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 Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN** 

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

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

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	04/02/2014	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	13100	100	03/31/2014	ND	222	111	200	9.86	
DRO >C10-C28	49200	100	03/31/2014	ND	198	99.0	200	1.31	

Surrogate: 1-Chlorooctane 497 % 65.2-140

Surrogate: 1-Chlorooctadecane

1260 %

63.6-154

Cardinal Laboratories \*=Accredited Analyte

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



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. 3 @ SURFACE (H400911-03)

BTEX 8021B	mg/l	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 %	6 89.4-12	6						
Chloride, SM4500Cl-B	ma/l	ka	Δnalvze	d Bv: AP					

· ·									
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/02/2014	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	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

Cardinal Laboratories \*=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 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: Sample Received By: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN** 

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	21.6	5.00	04/01/2014	ND	2.28	114	2.00	8.45	
Toluene*	137	5.00	04/01/2014	ND	2.18	109	2.00	8.38	
Ethylbenzene*	131	5.00	04/01/2014	ND	2.13	106	2.00	8.60	
Total Xylenes*	192	15.0	04/01/2014	ND	6.26	104	6.00	7.23	
Total BTEX	481	30.0	04/01/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	132 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/02/2014	ND	416	104	400	3.77	
TPH 8015M	mg,	mg/kg		Analyzed By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3990	100	03/31/2014	ND	222	111	200	9.86	
DRO >C10-C28	25400	100	03/31/2014	ND	198	99.0	200	1.31	

Surrogate: 1-Chlorooctane 218 % 65.2-140 752 % 63.6-154 Surrogate: 1-Chlorooctadecane

Cardinal Laboratories \*=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 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. 5 @ SURFACE (H400911-05)

BTEX 8021B	mg/	kg	Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	5.58	5.00	04/01/2014	ND	2.28	114	2.00	8.45	
Toluene*	132	5.00	04/01/2014	ND	2.18	109	2.00	8.38	
Ethylbenzene*	159	5.00	04/01/2014	ND	2.13	106	2.00	8.60	
Total Xylenes*	244	15.0	04/01/2014	ND	6.26	104	6.00	7.23	
Total BTEX	541	30.0	04/01/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	140 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					

mg,	/kg	Analyzed By: AP						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
208	16.0	04/02/2014	ND	416	104	400	3.77	
mg/kg		Analyzed By: ms						S-06
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
4850	100	03/31/2014	ND	222	111	200	9.86	
26700	100	03/31/2014	ND	198	99.0	200	1.31	
	Result 208 mg, Result 4850	208 16.0 mg/kg  Result Reporting Limit 4850 100	Result         Reporting Limit         Analyzed           208         16.0         04/02/2014           mg/kg         Analyze           Result         Reporting Limit         Analyzed           4850         100         03/31/2014	Result         Reporting Limit         Analyzed         Method Blank           208         16.0         04/02/2014         ND           mg/kg         Analyzed By: ms           Result         Reporting Limit         Analyzed         Method Blank           4850         100         03/31/2014         ND	Result         Reporting Limit         Analyzed         Method Blank         BS           208         16.0         04/02/2014         ND         416           mg/kg         Analyzed By: ms           Result         Reporting Limit         Analyzed         Method Blank         BS           4850         100         03/31/2014         ND         222	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           208         16.0         04/02/2014         ND         416         104           mg/kg         Analyzed By: ms           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           4850         100         03/31/2014         ND         222         111	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           208         16.0         04/02/2014         ND         416         104         400           mg/kg         Analyzed By: ms           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           4850         100         03/31/2014         ND         222         111         200	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           208         16.0         04/02/2014         ND         416         104         400         3.77           mg/kg         Analyzed By: ms           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           4850         100         03/31/2014         ND         222         111         200         9.86

Surrogate: 1-Chlorooctane 265 % 65.2-140
Surrogate: 1-Chlorooctadecane 680 % 63.6-154

Cardinal Laboratories \*=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 03/26/2014 Sampling Date: 03/26/2014

Reported: 04/02/2014 Sampling Type: Soil

Project Name: GISSLER A-2 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN** 

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 %	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21000	16.0	04/02/2014	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	154 9	63.6-15	4						

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Celey D. Keine

Cardinal Laboratories

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



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. 7 @ SURFACE (H400911-07)

BTEX 8021B	mg/l	kg	Analyze	d By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	8.18	2.00	04/01/2014	ND	2.28	114	2.00	8.45		
Toluene*	45.4	2.00	04/01/2014	ND	2.18	109	2.00	8.38		
Ethylbenzene*	78.2	2.00	04/01/2014	ND	2.13	106	2.00	8.60		
Total Xylenes*	128	6.00	04/01/2014	ND	6.26	104	6.00	7.23		
Total BTEX	260	12.0	04/01/2014	ND						
Surrogate: 4-Bromofluorobenzene (PID	152 %	6 89.4-12	6							
Chloride, SM4500Cl-B	mg/l	kg	Analyze	d By: AP						

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/02/2014	ND	416	104	400	3.77	
TPH 8015M	mg/	mg/kg		Analyzed By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3490	100	03/31/2014	ND	222	111	200	9.86	
DRO >C10-C28	36600	100	03/31/2014	ND	198	99.0	200	1.31	
-									

Surrogate: 1-Chlorooctane 259 % 65.2-140 Surrogate: 1-Chlorooctadecane 1090 % 63.6-154

Cardinal Laboratories \*=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 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. 8 @ SURFACE (H400911-08)

BTEX 8021B	mg	/kg	Analyze	d 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	% 89.4-12	6						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/02/2014	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	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	% 65.2-14	0						

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Celey D. Keine

Surrogate: 1-Chlorooctadecane

851 %

63.6-154



#### **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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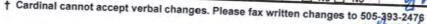
### ARDINAL LABORATORIES

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Project Manager: Jacob Kamplan					-		B	ILL T	0	21				ANA	LYSIS	REQUE	CT	
Address:					-	2.0.#									1	KEQUE	31	
City: Hobbs State: NM	7in:	000	110			omp	any:			1		1		S				
Phone #: Fax #:	Zip.	882	240			Attn:							6					
Project #: Project Owne	· ·					Address:			1				5					
Project Name:						City:			100	Σ		Т	N/S					
Project Location: GISSLP A-2						State: Zip:			Chlorides	8015	×	Texas TPH	Cations/Anions					
ampler Name: Kyle Humphrey						Phone #:			15	ò	BTEX	10	ij	TDS	1 1			
FOR LAB USE ONLY	П	Т	MA	TRIX		DPF	SERV.		PLING	1≍	PH	B	Xa	Ö	F			
Lab I.D.  Sample I.D.  1400911  Pt 1 @ Sv.fccp  2 pt 2 @ Sv.fccp  3 Pt 3 @ Sv.fccp  4 pt 9 @ Sv.fccp  5 pt 8 @ Sv.fccp  6 pt 6 @ Sv.fccp  7 pt 7 @ Sv.fccp  8 pt 8 @ Sv.fccp  ASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for an yese. All claims including those for negligence and any other cause whatsoever shall be decided to related to the performance of seniorse including with the sor successors arising out of or related to the performance of seniorse in an under the senior successors arising out of or related to the performance of seniorse in an under the seniorse in an under the seniorse in a senior of the seniorse in an under the seniorse in an under the seniorse in a under the seniorse in an under the seniorse in a senior of the seniorse in a under the seniorse in a und	6 6 6 1 6 1							DATE 3-26	10:00 10:05 10:15 10:15 10:25 10:30 10:35	<i>X X X X X X X X X X</i>	X X X Y Y X X	<i>X X X X X X X X X X</i>	3	Complete				

Kyle Huniam Relinquished By:	ance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above state    Date:	Phone Result:  Yes No Add'l Phone #:  Fax Result:  Yes No Add'l Fax #:  REMARKS:  email results
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition CHECKED BY:  Cool Intact  Pes Pes  No No  No  RI changes. Please fax written changes to 505-393-2476	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





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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 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)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	04/07/2014	ND	2.01	100	2.00	1.39	
Toluene*	3.53	0.200	04/07/2014	ND	1.92	95.8	2.00	2.21	
Ethylbenzene*	6.46	0.200	04/07/2014	ND	1.91	95.3	2.00	0.140	
Total Xylenes*	9.25	0.600	04/07/2014	ND	5.49	91.6	6.00	0.369	
Total BTEX	19.2	1.20	04/07/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	162	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	04/07/2014	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	248	100	04/04/2014	ND	183	91.4	200	1.10	
DRO >C10-C28	8940	100	04/04/2014	ND	203	101	200	5.74	
Surrogate: 1-Chlorooctane	146	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	304	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 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 3 @ 6" (H400982-02)

BTEX 8021B	mg	/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	3.70	2.00	04/07/2014	ND	2.01	100	2.00	1.39		
Toluene*	44.1	2.00	04/07/2014	ND	1.92	95.8	2.00	2.21		
Ethylbenzene*	56.6	2.00	04/07/2014	ND	1.91	95.3	2.00	0.140		
Total Xylenes*	89.8	6.00	04/07/2014	ND	5.49	91.6	6.00	0.369		
Total BTEX	194	12.0	04/07/2014	ND						
Surrogate: 4-Bromofluorobenzene (PID	147	% 89.4-12	6							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/07/2014	ND	400	100	400	3.92		
TPH 8015M	mg	/kg	Analyze	d By: ms					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	2100	100	04/04/2014	ND	183	91.4	200	1.10		
DRO >C10-C28	16200	100	04/04/2014	ND	203	101	200	5.74		
Surrogate: 1-Chlorooctane	202	% 65.2-14	0							

Surrogate: 1-Chlorooctadecane 452 % 63.6-154

Cardinal Laboratories \*=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 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)

BTEX 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 BTEX	90.9	12.0	04/07/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	136	% 89.4-12	6						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/07/2014	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1920	100	04/04/2014	ND	183	91.4	200	1.10	
DRO >C10-C28	17700	100	04/04/2014	ND	203	101	200	5.74	

Surrogate: 1-Chlorooctane 207 % 65.2-140
Surrogate: 1-Chlorooctadecane 461 % 63.6-154

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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 Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN** 

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

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*	0.074	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 9	% 89.4-12	6							
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/07/2014	ND	416	104	400	3.92		
TPH 8015M	mg/	/kg	Analyze	d By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	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 9	% 65.2-14	70							
Surrogate: 1-Chlorooctadecane	115 9	% 63.6-15	4							

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 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)

GRO C6-C10

DRO >C10-C28

Surrogate: 1-Chlorooctadecane

BTEX 8021B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2014	ND	2.01	100	2.00	1.39	
Toluene*	0.428	0.050	04/07/2014	ND	1.92	95.8	2.00	2.21	
Ethylbenzene*	1.31	0.050	04/07/2014	ND	1.91	95.3	2.00	0.140	
Total Xylenes*	2.49	0.150	04/07/2014	ND	5.49	91.6	6.00	0.369	
Total BTEX	4.23	0.300	04/07/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	133	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	04/07/2014	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ND

ND

183

203

91.4

101

200

200

1.10

5.74

04/04/2014

04/04/2014

Surrogate: 1-Chlorooctane 113 % 65.2-140

<50.0

572

137 %

50.0

50.0

63.6-154

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 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 7 @ 6" (H400982-06)

BTEX 8021B	mg	/kg	Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	7.93	5.00	04/07/2014	ND	2.01	100	2.00	1.39	
Toluene*	64.8	5.00	04/07/2014	ND	1.92	95.8	2.00	2.21	
Ethylbenzene*	130	5.00	04/07/2014	ND	1.91	95.3	2.00	0.140	
Total Xylenes*	229	15.0	04/07/2014	ND	5.49	91.6	6.00	0.369	
Total BTEX	431	30.0	04/07/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	150	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/07/2014	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	5930	200	04/04/2014	ND	183	91.4	200	1.10	

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 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 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	% 89.4-12	6							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/07/2014	ND	416	104	400	3.92		
TPH 8015M	mg,	/kg	Analyze	d 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	% 65.2-14	0							

Surrogate: 1-Chlorooctadecane 94.2 % 63.6-154

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 04/02/2014 Sampling Date: 03/27/2014

Reported: 04/08/2014 Sampling Type: Soil

Project Name: GISSLER A-2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

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

BTEX 8021B	mg/	kg	Analyze	d 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 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9860	16.0	04/07/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	113 %	63.6-15	4						

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#### **Notes and Definitions**

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

\*\*\* Insufficient time to reach temperature.

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

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

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### ARDINAL LABORATORIES

#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	Recs		_								470					-	ANA	LYSIS	REC	QUE	ST			
Project Manager	: Jccob Kemplain						P	.0.#																
Address:							C	omp	any:				1				S							
City: Hobbs	State: NM	Zip	: 88	240			A	ttn:									o			1				
Phone #:	Fax #:						A	ddre	ss:								'n							
Project #:	Project Owne	r:					c	ity:					1	Σ		Т	S/F							
Project Name:							s	tate:			Zip:		es	5	×	TPH	SUC							
Project Location	: GISSLP A-Z						P	hone	#:				Chlorides	801	BTEX	S	Cations/Anions	TDS						
Sampler Name:	Kyle Humphrey						F	ax #:					을		BT	Texas	Ö	F					- 1	
FOR LAB USE ONLY		1.	Г	-	MAT	RIX	-	PR	ESER	V.	SAMPLI	NG	O	TPH		e	te						- 1	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME					Complete							
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2	P+3@ 611	6	1		V				V	1	1	9:05	V	V	1									
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91	D+5 @ 611	6	1	+	1	+	+	+	1	+	-	9:15	1	-	1		-		-4			_	-	
7	P + 6 @ 6	6	1	+	V	+	+	+	1	+		9:20	V	-	/		-				-	+	+	
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THE SACE NOVE LINES	d Damages. Cardinal's liability and client's exclusive remedy for											d by the align for				N I								

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 consequental 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:	Parter 14 Recei	Wi Non Now	Fa	Phone Result: ☐ Yes ☑ No Add'l Phone #:  Fax Result: ☐ Yes ☑ No Add'l Fax #:  REMARKS:						
Relinquished By:	Date: Recei	ved By:	K	mail results norman@r jones@rice	ice-ecs.		plain@rice-ecs.com hconder@rice-ecs.com;			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:			tials) K	weinheime humphrey( edwards@	@rice-ed	cs.com	res@rice-ecs.com			

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2415





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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 04/02/2014 Sampling Date: 03/31/2014

Reported: 04/08/2014 Sampling Type: Soil

Project Name: GISSLER A-2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/08/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	111 %	63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 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. 5 @ 1' (H400983-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<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	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/08/2014	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<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	% 65.2-14	0						

Surrogate: 1-Chlorooctadecane 159 % 63.6-154

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 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)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2014	ND	1.99	99.3	2.00	3.19	
Toluene*	<0.050	0.050	04/07/2014	ND	2.02	101	2.00	2.90	
Ethylbenzene*	<0.050	0.050	04/07/2014	ND	1.99	99.6	2.00	3.10	
Total Xylenes*	<0.150	0.150	04/07/2014	ND	5.73	95.5	6.00	3.00	
Total BTEX	<0.300	0.300	04/07/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	89.4-12	6						
Chloride, SM4500Cl-B	ride, SM4500Cl-B mg/kg		Analyze	d 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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	115 9	63.6-15	4						

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#### **Notes and Definitions**

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

\*\*\* Insufficient time to reach temperature.

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

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

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# ARDINAL LABORATORIES

# CHAIN-OF-CUSTODY AND AN ALY SIS REQUES

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

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Project Name:	Project	Owner			Address		+			1	0					
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400983		(G)RAB OR (C)C	STEV	SLUDGE OTHER:	BAS		1 1				Complete					
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successors arising out of or related to t	idental or consequental damages, including	deemed waived u	whether based in cont niess made in writing	ract or tort, sha	If be limited to	the amount naid by the				1	+	+		-	_	
Call Silver	Is liability and client's exclusive remedy for a and any other cause whatsoever shall be and any other cause whatsoever shall be edidental or consequential damages, including the performance of services hereunder by consequently the performance of services hereunder by the performance of services here and the performance of services here are also services here are also services here and the performance of services here are also	ardinal, regardles	business interruption s of whether such cla	is, loss of use,	y Cardinal with or loss of profi	in 30 days after completion of the a is incurred by client, its exhaust	pplicable							-		
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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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN

HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 05/01/2014 Sampling Date: 04/30/2014
Reported: 05/09/2014 Sampling Type: Soil

Project Name: GISSLER A-2 Sampling Condition: Cool & Intact
Project Number: BURNETT Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

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

BTEX 8260B	mg,	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 61.3-14	2						
Surrogate: Toluene-d8	109	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	105	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/08/2014	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	98.4	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 05/01/2014 Sampling Date: 04/30/2014 Reported: Soil

05/09/2014 Sampling Type: Project Name: GISSLER A-2 Sampling Condition: Cool & Intact Sample Received By: Project Number: **BURNETT** Celey D. Keene

Project Location: NOT GIVEN

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

BTEX 8260B	mg	/kg	Analyze	d 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 BTEX	219	3.00	05/09/2014	ND					
Surrogate: Dibromofluoromethane	98.3	% 61.3-14	2						
Surrogate: Toluene-d8	115	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	247	% 65.7-14	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/08/2014	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	192	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

 Received:
 05/01/2014
 Sampling Date:
 04/30/2014

 Reported:
 05/09/2014
 Sampling Type:
 Soil

Project Name: GISSLER A-2 Sampling Condition: Cool & Intact
Project Number: BURNETT Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

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

TEX 8260B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2014	ND	2.37	119	2.00	0.0531	
Toluene*	0.087	0.050	05/09/2014	ND	2.38	119	2.00	0.125	
Ethylbenzene*	0.093	0.050	05/09/2014	ND	2.24	112	2.00	0.819	
Total Xylenes*	<0.150	0.150	05/09/2014	ND	6.91	115	6.00	0.228	
Total BTEX	<0.300	0.300	05/09/2014	ND					
Surrogate: Dibromofluoromethane	96.5	% 61.3-14	22						
Surrogate: Toluene-d8	99.6	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	132 9	% 65.7-14	1						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/08/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/08/2014	ND	192	95.9	200	1.84	
DRO >C10-C28	194	10.0	05/08/2014	ND	220	110	200	12.1	
Surrogate: 1-Chlorooctane	107 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	127 9	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN

HOBBS NM, 88240

Fax To: (575) 397-1471

 Received:
 05/01/2014
 Sampling Date:
 04/30/2014

 Reported:
 05/09/2014
 Sampling Type:
 Soil

Project Name: GISSLER A-2 Sampling Condition: Cool & Intact
Project Number: BURNETT Sample Received By: Celey D. Keene

Analyzed By: me

Project Location: NOT GIVEN

ma/ka

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

RTFY 8260R

1EX 8260B	mg/	кg	Analyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2014	ND	2.37	119	2.00	0.0531	
Toluene*	<0.050	0.050	05/09/2014	ND	2.38	119	2.00	0.125	
Ethylbenzene*	0.068	0.050	05/09/2014	ND	2.24	112	2.00	0.819	
Total Xylenes*	0.188	0.150	05/09/2014	ND	6.91	115	6.00	0.228	
Total BTEX	<0.300	0.300	05/09/2014	ND					
Surrogate: Dibromofluoromethane	98.3	% 61.3-14	22						
Surrogate: Toluene-d8	103	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	128	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	alyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/08/2014	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/08/2014	ND	192	95.9	200	1.84	
DRO >C10-C28	522	10.0	05/08/2014	ND	220	110	200	12.1	
Surrogate: 1-Chlorooctane	119 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	126	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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



#### **Notes and Definitions**

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

\*\*\* Insufficient time to reach temperature.

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

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

Cardinal Laboratories \*=Accredited Analyte

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

#### ARDINAL LABORATORIES

Company Name:

#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

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

Address: Company: City: Hobbs State: NM Zip: 88240 Attn: Address: Company: City: Hobbs State: NM Zip: 88240 Attn: Address: Project #: Project Owner: City: Project Name: Project Location: Bull NETT (AKSLE & A-2 Phone #: Sampler Name: EDWARD (ESARE) FOR LAB USE ONLY  Lab I.D. Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  Address: Company: City: Project Owner: State: Zip: Phone #: Fax #:  MATRIX PRESERV. SAMPLING  Address:  Company:  Address:  Company:  Address:  Company:  Address:  Address:  Project Name: Sampler Name: For Lab USE ONLY  Address:  Death of the same of the			
COMPLETED   Comp			
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Lab I.D. Sample I.D.  Sample I.D.  Sample I.D.  MATRIX PRESERV. SAMPLING  OUT P1-8  OUT P1-8  OUT P1-7  OU			
Lab I.D. Sample I.D.  Sample I.D.  Sample I.D.  MATRIX PRESERV. SAMPLING  OUT P1-8  OUT P1-8  OUT P1-7  OU			
Lab I.D. Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  MATRIX  PRESERV. SAMPLING  OLIVER:  OLIVE			
Lab I.D. Sample I.D.  Sample I.D.  Sample I.D.  Sample I.D.  MATRIX  PRESERV. SAMPLING  OLIVER:  OLIVE			
Lab I.D. Sample I.D.   G  G  SGONTAINERS   G  COOL DITE   G  COOL			
07 Pt.8 11 G1 4-30-14 6.50 V 07 Pt.7 2.5' G1 6:55 V 03 Pt.7 3' G1 7:00			
V3 Pt.7 3' 6' 7:00			
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04 8+3			
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LEASE 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 nalyses. 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 narios. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, fillates or successors arising flyst of or related to the performance of services hereurger by Cardinal, regardless of whether short claim is based upon any of the above stated reasons or otherwise.			
Relinquished By:   Phone Result:			
Fax Result:  Yes No Add'l Fax #:  Time:			
Pate: Received By: email: hconder@riceswd.com; lflores@rice-ecs.com; knorman@rice-ecs.com; knorman@rice-ecs.co	om;		
Delivered By: (Circle One)  Sample Condition CHECKED BY:  jkamplain@rice-ecs.com; sedwards@rice-ecs.com	1;		
Sampler - UPS - Bus - Other:  24 Cool Intact (Initials) cursanic@rice-ecs.com Environmental Tech:	@rice-ecs.com		

BILL TO

154

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2014	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 BTEX	<0.300	0.300	09/11/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 89.4-12	6						
hloride, SM4500Cl-B mg/kg		Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/12/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	123 %	63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

\*\*\* Insufficient time to reach temperature.

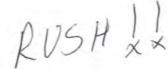
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories \*=Accredited Analyte

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### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101	East Marland, Hobbs, NM 8824 5) 393-2326 FAX (575) 393-2476				1		R	ILL	TO					AIN	ALIGI	T	QUEST			1
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roject Location:	Gissler A-2 batt	y			-	ax#:					1		1				1			
Sampler Name:	Kyle Schnaidt			MATR	_		ESER	RV.	SAMPLI	NG	1	1	1							
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PLEASE NOTE: Liability a	and Damages. Cardinal's liability and client's exclusive remed sing those for negligence and any other cause whatsoever sh Cardinal be liabile for incidental or consequental damages, in sing out of or related to the performance of services hereund	ill be deemed luding without	i waived uni t limitation, t	ess made business i	nterruption	s, loss o	t use, or	r loss o	If profits incurred the above state	d reasons or of	therwise.	ilt. 🗆	Yes	□ No	Add'l F	Phone #:				
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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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

12/01/2014



#### 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:

Reported: 12/05/2014 Sampling Type: Soil
Project Name: GISSLER A-2 Sampling Condition: Cool

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 3 @ 1.5' (H403667-01)

BTEX 8021B	mg/	kg	Analyze	d 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 9	61-154	!						
loride, SM4500Cl-B mg/kg		Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/02/2014	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d 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 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	135 9	52.1-17	6						

#### Cardinal Laboratories \*=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 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: Sample Received By: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN** 

#### Sample ID: PT 4 @ 1.5' (H403667-02)

BTEX 8021B	mg/	kg	Analyze	d 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 9	% 61-154	!						
Chloride, SM4500Cl-B	mg/	mg/kg		d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/02/2014	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d 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 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	136 %	6 52.1-17	6						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

\*\*\* Insufficient time to reach temperature.

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

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

Cardinal Laboratories \*=Accredited Analyte

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# ARDINAL LABORATORIES

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Nam	e: RECS										ILL TO		2			_	ANIA	1 1/0/0				
Project Manage	er: Laura Flores / Jacob Kam j	dain						P.(	D. #:					1	T	-	ANA	LYSIS	REQUE	ST	_	
Address: 419	9 W Cain	423						Co	mpa	nv.			1									
City: Hobbs	State: N	M Zi	p: 8	8240				Att	-				1				ns					
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Project Name:	Burnet GISSLEY A-2 Bath	ior (						Sta			71		S	Σ		프	)SI					
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FOR LAB USE ONLY			Т		MA	TRIX	_	_	_	SERV	/ SAMPI	ING	구도	TPH	B	X		-				
Lab I.D. H403667	Sample I.D.	(G)RAB OR (C)OMI	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE:	OTHER:	DATE	TIME		-		_	Complete					
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PLEASE NOTE: Liability as	nd Damages. Cardinal's liability and client's exclusive remeding those for negligence and any other cause whatenever sh	I for any circ																				

analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unress made in writing and received by Cardinal within 30 days after completion of the service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

Refinquished By:	Time: 4. 10 Recei	rdiess of whether such claim is based upon any of the above stated in the state of	Phone Result:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	3.4%	Sample Condition CHECKED BY: Cool Intact Initials Pres Yes No No	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

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476





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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 12/02/2014 Sampling Date: 12/02/2014

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. 5 @ 2' (H403676-01)

BTEX 8021B	mg/	kg	Analyze	d 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 BTEX	<0.300	0.300	12/04/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	12/03/2014	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d 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 9	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	145 9	52.1-17	6						

#### Cardinal Laboratories \*=Accredited Analyte

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#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

\*\*\* Insufficient time to reach temperature.

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

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

Cardinal Laboratories \*=Accredited Analyte

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### ARDINAL LABORATORIES

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	(505) 393-2326 FAX (505) 393-24	76	(32	5) 67	3-70	001	FA	X (3	325)	6/3	-/0.	70					A	NAL	YSIS	REQUEST		
ompany Name:							-	P.O.	#-	BI	LEG	10										
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ity: Hobbs	State: NM	Zip	: 88	240			-	Attn										<u>-</u>			1 1	
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FOR LAB USE ONLY		<u>a</u>			IVIA		Î		T	1				1	F		-	<u>e</u>				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	TAINE	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE	TIME					Complete				
H403676	D/ D	Ğ	1	Ĭ	V					1	L	2-2-14	9:00	1	V	1	-	-	-		-	
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	y and Damages. Cardinal's liability and client's exclusive remedy k			rising wh	ather b	ased in	contra	et or b	ort, sha	il be lin	mited to	to the amount p	paid by the clien	t for the								

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 circumstance of 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 incured by client, its subeldiaries, saffiliates 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:	Time: U:45	Received By:  Received By:	won	Phone Result:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	ų	Sample Condition Cool Intact Yes Yes No No	CHECKED BY:	environmental tech: agroves@rice-ecs.com

#54

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

# Appendix C Corrective Action Labs



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.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Jodi Henson



#### Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN 419 W. CAIN

Sample Received By:

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 Location: NOT GIVEN

NONE GIVEN

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

Project Number:

BTEX 8021B	mg/	kg	Analyze	d 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	102 %	61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/04/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d 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 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	141 %	6 52.1-170	6						

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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)**

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	101 9	% 61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	352	16.0	12/04/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<50.0	50.0	12/04/2014	ND	199	99.5	200	0.653	
	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

Cardinal Laboratories \*=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 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 3 (H403688-03)**

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	102 9	% 61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	12/04/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<50.0	50.0	12/04/2014	ND	199	99.5	200	0.653	
	843	50.0	12/04/2014	ND	204	102	200	0.660	

Surrogate: 1-Chlorooctadecane 171 % 52.1-176

Cardinal Laboratories \*=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 12/03/2014 Sampling Date: 12/03/2014

Reported: 12/05/2014 Sampling Type: Soil

Project Name: GISSLER A-2 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN** 

#### Sample ID: NORTH WALL 1 (H403688-04)

BTEX 8021B	mg/	kg	Analyze	d 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	102 9	% 61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/04/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d 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 %	2/6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	147 9	52.1-17	6						

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Celey D. Keine



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 2 (H403688-05)

BTEX 8021B	mg/	kg	Analyze	d 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 9	61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/04/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d 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 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	143 9	6 52.1-17	6						

Cardinal Laboratories \*=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 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 3 (H403688-06)

BTEX 8021B	mg/	kg	Analyze	d 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	Analyze	d 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	Analyze	d 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 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	146 %	6 52.1-17	6						

Cardinal Laboratories \*=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: 12/03/2014 Sampling Date: 12/03/2014

Reported: 12/05/2014 Sampling Type: Soil

Project Name: GISSLER A-2 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN** 

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

BTEX 8021B	mg/	kg	Analyze	d 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 9	% 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	12/04/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d 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 %	2/6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	197 9	52.1-17	6						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after 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. Keine



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 Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN** 

#### Sample ID: EAST WALL (H403688-08)

BTEX 8021B	mg/	kg	Analyze	d 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	98.8	% 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/04/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d 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 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	141 9	6 52 1-17	6						

52.1-176 Surrogate: 1-Chlorooctadecane 141 %

Cardinal Laboratories \*=Accredited Analyte

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#### **Notes and Definitions**

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

matrix interference's.

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 whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 F								X (325)673-7020 ANALYSIS REQUEST															
Project Manager: Laura Flores / Jacob Kamplain Address: 419 W Cain								P.O. #: Company:										ons		1 1			
														- 1						1 1			
														74						1 1			
City: Hobbs State: NM Zip: 88240								Attn:							4			-E		1 1			
Eav #:							11	Address:					_		5		-	X				1 1	
Project #: Project Owner:  Project Name: Burnett Gissler A-2 Battery								City: State: Zip: Phone #:						S	15 M	×	TPH	Cations/Anions				1 1	
														de					S	1 1		1 1	
													Chlorides	30	世	S	at	TDS	1 1				
Project Location:								Fax #:					1 2	TPH 801	BTEX	Texas		-			1 1		
Sampler Name: Amber Groves MATRIX					PRESERV. SAMPLING				NG.	O								1 1					
FOR LAB USE ONLY		0.			T	1	1								1			음		1 1			
Lab I.D.	Sample I.D.	GRAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	OTHER:	ACID/BASE:	✓ ICE/COOL	OTHER:	DATE	TIME	~	1	V		Complete					
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5 Mari	nwall a	6	11	1		1	+	+	+	V	-	12-3-14	11:15	V	1	1						1	+
6 Nort	n wall 3	6	7 1	1		/	+	-	+	V	-	12-3-14	111	V	V	1							+
7 100	t way	16	1 1	1		V	1	+	+	1	-	12-3-14	11.50	1	1	-	-						1
4423	st Wall	6	7 1			V			1	1	1	19-2-10	11: 25	4	1	1							1
4 VAC																							

service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, Phone Result: ☐ Yes ☐ Yes ☑ No Fax Result:

Time: 4 . V	0 100	di Alex	won
	1170	Sample Condition Cool Intact Tes Yes	CHECKED BY:
	Time: 4: 8	Time: U. VO Receive	Time: VO Received By: Time: Sample Condition

email results:

REMARKS:

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

Add'l Fax #:

environmental tech: agroves@rice-ecs.com

☑ No

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476





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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

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)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTEX	<0.300	0.300	12/09/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.6	% 61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	ed 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	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	174 %	6 52.1-17	6						

Cardinal Laboratories \*=Accredited Analyte

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



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

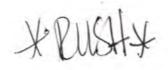
\*\*\* Insufficient time to reach temperature.

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

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

Cardinal Laboratories \*=Accredited Analyte

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

#### ARDINAL LABORATORIES

Company Name:

RECS

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

Project Manager: Laura Flores / Vacol) Kamplain								P	.0.	#:								1 - 1							
Address: 419								c	om	pany	:				11.3			S							
City: Hobbs		State: NM	Zip:	882	240			A	ttn:									on							
Phone #:	57.0	Fax #:						A	ddr	ess:								'n							
Project #:		Project Owner:						c	ity:						Σ		Т	s//							
Project Name:	Burnetl Gissley A.	2 Battery						s	tate	:		Zip:		e	5	×	교	nc							- 1
Project Location		0						P	hon	e #:				Chlorides	ò	BTEX	S	atic	TDS						
Sampler Name:	Amber Groves							F	ax#	_				] 은	1 -	B	x	Ö	F						
Lab I.D.	Sample I.I	D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	MAT		w -		RESE		SAMPL	ING	Ö	TPH 8015 M		Texas TPH	Complete Cations/Anions							
H4D3739			G)RAB	# CONT	AASTE	SOIL	JE	SLUDGE	ACID/BASE:	ICE / COOL	OTHER	DATE	TIME					O							
1	Lin Scrape 20t. Bd	Hom Composik	C	1		/			-	/		12-8-14	9:00	~	~	~									
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PLEASE NOTE: Liability ar	nd Damages. Cardinal's liability and clien	is exclusive remedy for an	y dain	arising	whethe	r based	n cont	tract or	tort, sh	nali be i	mited t	o the amount pa	id by the client fo	r the											
service. In no event shall C	ng those for negligence and any other ca ardinal be liable for incidental or consequing out of or related to the performance of	iental damages, including	without rdinal,	limitati regard	on, busin less of w	ness inter hether so	тирбо	ins, loss	of use	e, or los	s of pro	ofits incurred by	client, its subsidir asons or otherwi	aries, se.											_
Rélinquished By	alone X	Time: 4:00	4	6	ed By		B	le	n	Se	M		Phone Re Fax Resu REMARK email re hconde	it: s: esults er@ric	e-ecs	s Ø	No knor	Add'l I	@rice	-ecs.c					
	(Circle One) - Bus - Other:	inie.	4.4	10	Co	mple (	ntac	4	1	СН		ED BY:	jkampla lweinhe environ	eimer(	@rice	-ecs.	com; o	cursa	nic@i	rice-ed	om; Iflos.con	ores@	rice-e	s.con	1;

BILL TO

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476





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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

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: 12/11/2014 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: IMPORTED TOPSOIL (H403740-01)

Chloride, SM4500Cl-B	'kg	Analyze	d 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

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



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

\*\*\* Insufficient time to reach temperature.

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

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

Cardinal Laboratories \*=Accredited Analyte

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### RDINAL LABORATORIES

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

	(505) 393-2326 FAX (505) 393-2		(	,				51	RI	LL 70					A	NAL	YSIS REQU	EST		_
	RECS						P.C	). #:	-							-4		1		
	Laura Flores / Jacob Kamplan	)					Co	mpai	nv:					- 1		2			1 1	
Address: 419 W	/ Cain State: NM	7in	000	140			Att		,						- 1	0				
City: Hobbs		Zip	00.	240			1	dres	s:							7	- 1 1		1 1	
Phone #:	Fax #:						Cit						Σ		I	Cations/Anions			1 1	
Project #: Project Owner:								ite:		Zip:		es	2	×	0	on			1 1	
Project Name: Burnett Gisser A-2 Battery							1	hone #:				Chlorides	<b>TPH 8015</b>	BTEX	Texas TPH	ati	TDS		1 1	
Project Location:								x #:				은	8	BT	xa		F			
Sampler Name: A	Amber Groves	1			MAT	RIX	1		SERV	SAMPL	NG	Ö	古		e	te				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	OTHER:		V ICE/COOL		TIME 2:15	~				Complete				
1	mported Topsoil				V					19.814	0113									
	d Damages. Cardinal's liability and client's exclusive remed g those for regilgence and any other cause whatsoever sh artifinal be liable for incidental or consequental damages, inc ing out of or related to the performance of services hiereunide.	luding with	nout lim		siness in whether	terrupti such ci	ons, los aim is b	s of use ased up	or loss o			vise. Result: ult:			A No		I Phone #: I Fax #:			

email results:

hconder@rice-ecs.com; knorman@rice-ecs.com;

environmental tech: agroves@rice-ecs.com

lweinheimer@rice-ecs.com; cursanic@rice-ecs.com

jkamplain@rice-ecs.com; regans@rice-ecs.com; lflores@rice-ecs.com;

Sample Condition Delivered By: (Circle One) Cool Intact
Ves Yes
No No Sampler - UPS - Bus - Other:

Date:

Time:

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

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)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2014	ND	1.82	91.1	2.00	8.15	
Toluene*	0.437	0.050	12/16/2014	ND	1.79	89.3	2.00	8.31	
Ethylbenzene*	0.998	0.050	12/16/2014	ND	1.70	85.2	2.00	8.56	
Total Xylenes*	2.32	0.150	12/16/2014	ND	5.18	86.3	6.00	8.51	
Total BTEX	3.76	0.300	12/16/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 61-154	!						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	12/17/2014	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	94.3	10.0	12/17/2014	ND	194	97.1	200	0.234	
DRO >C10-C28	2810	10.0	12/17/2014	ND	195	97.7	200	0.102	
Surrogate: 1-Chlorooctane	92.6	% 47.2-15	7						

Surrogate: 1-Chlorooctane 92.6 % 47.2-137
Surrogate: 1-Chlorooctadecane 113 % 52.1-176

Cardinal Laboratories \*=Accredited Analyte

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



#### **Notes and Definitions**

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

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Celeg D. Freene

# ARDINAL LABORATORIES

RUSH CHAIN-O

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	(505) 393-2326 FAX (505) 393-2476 (325) 673-700							BILL TO ANALYSIS REQUEST											Т				
Company Name:	Burnetti							0.0	). #:	8	14	410					Ť						
roject Manager	Johnny Tilsworth						_	-		_	_									1 1			
Address: 112	W. Taylor						-	Co	mpa	ny:	_							SI S					
city: Hobbs	State: NM	Zip	: 88	3240	)			Att	n:		_							:21					
hone #:	Fax #:							Ad	dres	ss:				1	_			Cations/Anions					
Project #:	Project Owner	:						Cit	y:					S	2		문	JS.					
Project Name:	ect Name:							Sta	ate:		2	Zip:		Chlorides	<b>TPH 8015 M</b>	×	Texas TPH	.0	S				
Project Location	Kyle Schmidt							Ph	one	#:				9	88	BTEX	SS	at	TDS				
Sampler Name:	Kyle Schmidt							Fa	x #:		_			호	I	B	X		-				
FOR LAB USE ONLY			Г		N	MATR	IX		PRE	SER	Y	SAMPLI	NG	10	6	-	H	ete				1 1	
Lab I.D. 820 HY03819	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME					Complete					
1 203011	5 mit Composite in hottern	C	1			X				K		12-15-14	5:00	V	X	K						-	
	5 point Composite in battery  8 11  and Damages. Cardinal's liability and client's exclusive ramedy for																						

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, 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 consequental 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:  Relinquished By:  Relinquished By:	Date: 17 -16-14 Time: 11', 50 Date:	Received By:	2	Phone Result:    Yes    No
	Time:			knorman@rice-ecs.com; jkamplain@rice-ecs.com;
Delivered By: (Circle One)		Sample Condition	CHECKED BY:	sedwards@rice-ecs.com; cursanic@rice-ecs.com
Sampler - UPS - Bus - Other:	2.4.6 #	Yes Yes No	1	Environmental Tech: L Schmidt @rice-ecs.com

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



# Appendix D Photo Documentation

## **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 northeast

3/20/14



Initial release area, facing southwest

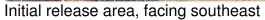
3/20/14



Initial release area, facing south

3/20/14









Hand augering for depth, facing southwest



Hand augering for depth, facing west





Installing vertical, facing west

9/11/14



Shoveling inside battery, facing southwest 11/20/14

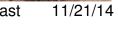


Excavating to 1.5 ft, facing southwest





Shoveling inside battery, facing southeast





Exporting soil, facing southeast

11/25/14



Shoveling on pad, facing northeast

11/25/14



Excavating to 4 ft, facing northeast

12/1/14



Excavating to 2 ft, facing southwest

11/25/14



2 ft excavation completed, facing southwest

12/2/14



2 ft excavation completed, facing northeast

12/2/13



Scraping to 1ft, facing east

12/4/14



Excavating to 3 ft, facing southwest

12/3/14



Shoveling to 1ft, facing southwest

12/4/14



Shoveling inside battery, facing northeast





Importing top soil, facing south

12/9/14



Scraping to 6 in, facing southeast

12/8/14



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



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



Importing caliche, facing southwest

12/12/14



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



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



4 ft excavation completed, facing west





Liner installation completed, facing west

12/15/14



Installing liner, facing northwest

12/15/14



Backfilling scrape in road, facing west

12/16/14



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



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



Backfilling over liner, facing east

12/17/14



Backfilling 2 ft excavation, facing west

12/22/14



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



Disking in amendments, facing north



1/7/15



Spreading soil amendments, facing north

1/7/15



Seeding site, facing northwest

1/7/15



Seeding site, facing northeast





Backfilling battery, facing southeast





Seeding site, facing north

1/7/15



Backfilling battery, facing northwest

1/8/15



Battery backfilled, facing southwest

1/12/15



Battery backfilled, facing south

1/12/15

# Appendix E

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

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

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

Form C-141

Revised August 8, 2011

			Rel	ease N	otifi	cation	and Co	orrective A	ction								
						OPERATOR											
		Burnett Oil C					Contact L	eslie Garvis									
		reet -Suite 15		orth, TX 7	6102		Telephone 1		730								
Facility Na	me Gissl	er A-2 Batte	ry				Facility Typ	e Battery									
Surface Ow	ner BLM	1		M	ineral	Owner API No. 30-015-33498											
					LOC	ATIO	OF RE	LEASE									
Unit Letter J	Section 14	Township 17S	Range 30E	Feet fro			South Line FSL	Feet from the 1705	East/West Line FEL	County Eddy							
		1.0	DOD					11301371301713071271717171717171	TEE	Ludy							
				Latitud	e_32.8	31215	Longitude	<u>-103.939486</u>	_								
					NA	<b>FURE</b>	OF REL	EASE									
Type of Rele								Release 230 bb		Recovered 21							
Source of Re	elease Oil t	ank					3/20/14	lour of Occurrence	Date an 7:00 am	d Hour of Disco	very 3/20/14						
Was Immedi	ate Notice (						If YES, To										
D W2 0			Yes L	□ No □	Not R	equired		ther – NMOC; M		1	<i>y</i>						
Was a Water		plain – RECS						lour 3/20/14 11 dume Impacting t									
was a water	course Read	100,000	Yes 🗵	₫ No			11 1ES, VO	nume impacting t	ne 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. Vacu																	
Describe Cau	ise of Problem	em and Remed the site and re	dial Actio	n Taken.*	□ The v	water line	plugged up	and the water ran	into the oil tank	ausing it to ove	rflow. Vacuur	m					
Describe Are	a Affected	and Cleanup A	Action Tal	ken.* A t	otal of	12.908 so	a ft of bermed	l battery, lease ro	ad and pasture la	nd was affected	hy the release						
RECS person	nnel were or	site beginnin	g on Mar	ch 20th, 20	14, to a	assess the	release. Bas	ed on the assessn	nent, eight sample	es points from w	vithin the relea	ase					
were sampled	at the surf	ace and with d	lepth. Re	presentati	ve samp	oles from	each sample	point were taken	to a commercial	aboratory for a	nalysis. Once	the					
initial sampli	ng was com	ipleted, a CAF	was sub	mitted to N	MOCI	D and BL	M on Noven	ber 4 <sup>th</sup> , 2014. Bo	oth NMOCD and	BLM approved	the CAP on						
November 20	, 2014; nov	he release are	ncies imp	posed stipi	ulations	in conju	nction with the	neir approvals. Cubic yards of con	orrective action a	ctivities began a	at the site on						
battery were	taken to a N	MOCD appro	ved facili	ity for dist	osal. (	Once the	8 inch scrape	in the battery and	the 6 inch scrap	on the pasture a	reas and the						
completed, be	ottom comp	osite samples	from each	h scrape w	ere tak	en and se	nt to a comm	ercial laboratory	for analyses. On	ce the excavatio	n to 4 ft bgs						
around Point	6 was comp	oleted, 8 wall s	samples v	vere taken	from th	ne comple	eted excavation	on and sent to a c	ommercial labora	tory for analyse	s. On Decemb	ber					
12 <sup>th</sup> , 2014, a	request to in	nstall the 20-m	nil reinfor	ced poly l	iner in	the 4 ft ex	cavation and	to backfill the ex	cavations outside	the facility was	s sent to NMO	CD					
December 15	their appro	val. BLM app	proved the	iner was in	n Dece	mber 12"	", 2014, and I	NMOCD approve nto the base of the	d the request on l	December 18th, 2	2014. On	2.6					
top soil was i	mported to	the site to bac	kfill the r	pasture are	as. A s	ample of	this imported	top soil was take	en to a commerci	A total of 1,040	d returned a	31					
chloride valu	e of non-de	tect. The past	ure area v	was backfi	lled wit	th the imp	orted top soi	l and contoured to	o the surrounding	location. On D	ecember 22 <sup>nd</sup> ,	,					
2014, a reque	est to backfi	Il the battery v	was sent to	o NMOCI	and B	LM. NN	1OCD approv	ed the request or	December 26th.	2014, and BLM	approved the						
request on Ja	nuary 5 <sup>th</sup> , 2	015. A total o	f 444 cub	oic yards o	f calich	e was im	ported to the	site to backfill th	e battery and buil	d berms. On Ja	nuary 7 <sup>th</sup> , 2014	4,					
								re seeded with L knowledge and u		manuscript to NIMO	CDl d						
								nd perform correct									
								arked as "Final R									
should their o	perations h	ave failed to a	dequately	y investiga	te and	remediate	contaminati	on that pose a thr	eat to ground wat	er, surface wate	r, human healt	th					
or the environ	nment. In a	ddition, NMO	CD accep	ptance of a	C-141	report do	oes not reliev	e the operator of	responsibility for	compliance wit	n any other						
lederal, state,	or local lav	ws and/or regu	liations.					OII CON	CEDVATION	DIVICION	T						
Signature:	Zasi	u &	Ja	rex	>			OIL CON	SERVATION	DIVISION	4						
Printed Name	e: Leslie Ga	arvis				1	Approved by	Environmental S	pecialist:		7						
Title: Regul	atory Coord	linator					Approval Dat	e:	Expiration	Date:							
E-mail Addre	ess: Igarvis@	burnettoil.com	m				Conditions of	**************************************									
Date: 2/13/1				: 817-583-	8730					Attached	_						