

January 11, 2017

KIRK FARIES

ROVER OPERATING

11387 LOVINGTON HWY

ARTESIA, NM 88210

RE: YATES STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/04/17 11:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

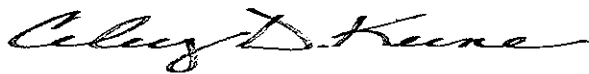
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 ROVER OPERATING
 KIRK FARIES
 11387 LOVINGTON HWY
 ARTESIA NM, 88210
 Fax To: NA

 Received: 01/04/2017
 Reported: 01/11/2017
 Project Name: YATES STATE BATTERY
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/04/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SIDEWALL #1 (H700023-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/06/2017	ND	2.00	99.9	2.00	0.831	
Toluene*	<0.050	0.050	01/06/2017	ND	1.98	98.9	2.00	0.679	
Ethylbenzene*	<0.050	0.050	01/06/2017	ND	2.01	100	2.00	0.275	
Total Xylenes*	<0.150	0.150	01/06/2017	ND	5.66	94.4	6.00	0.283	
Total BTX	<0.300	0.300	01/06/2017	ND					

Surrogate: 4-Bromofluorobenzene (P/L) 101 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/05/2017	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/06/2017	ND	183	91.7	200	0.659	
DRO >C10-C28	<10.0	10.0	01/06/2017	ND	194	97.1	200	0.949	

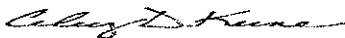
Surrogate: 1-Chlorooctane 81.9 % 35-147

Surrogate: 1-Chlorooctadecane 92.3 % 28-171

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ROVER OPERATING
KIRK FARIES
11387 LOVINGTON HWY
ARTESIA NM, 88210
Fax To: NA

Received: 01/04/2017
Reported: 01/11/2017
Project Name: YATES STATE BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/04/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SIDEWALL #2 (H700023-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/06/2017	ND	2.00	99.9	2.00	0.831	
Toluene*	<0.050	0.050	01/06/2017	ND	1.98	98.9	2.00	0.679	
Ethylbenzene*	<0.050	0.050	01/06/2017	ND	2.01	100	2.00	0.275	
Total Xylenes*	<0.150	0.150	01/06/2017	ND	5.66	94.4	6.00	0.283	
Total BTX	<0.300	0.300	01/06/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/05/2017	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/06/2017	ND	183	91.7	200	0.659	
DRO >C10-C28	21.7	10.0	01/06/2017	ND	194	97.1	200	0.949	

Surrogate: 1-Chlorooctane 96.2 % 35-147

Surrogate: 1-Chlorooctadecane 87.5 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ROVER OPERATING
KIRK FARIES
11387 LOVINGTON HWY
ARTESIA NM, 88210
Fax To: NA

Received: 01/04/2017
Reported: 01/11/2017
Project Name: YATES STATE BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/04/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: LOW POINT #3 (H700023-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	01/06/2017	ND	2.00	99.9	2.00	0.831	
Toluene*	3.99	1.00	01/06/2017	ND	1.98	98.9	2.00	0.679	
Ethylbenzene*	14.2	1.00	01/06/2017	ND	2.01	100	2.00	0.275	
Total Xylenes*	29.4	3.00	01/06/2017	ND	5.66	94.4	6.00	0.283	
Total BTEX	47.6	6.00	01/06/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	01/05/2017	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
S-06									

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1090	100	01/06/2017	ND	183	91.7	200	0.659		
DRO >C10-C28	8870	100	01/06/2017	ND	194	97.1	200	0.949		

Surrogate: 1-Chlorooctane 172 % 35-147

Surrogate: 1-Chlorooctadecane 241 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ROVER OPERATING
KIRK FARIES
11387 LOVINGTON HWY
ARTESIA NM, 88210
Fax To: NA

Received: 01/04/2017
Reported: 01/11/2017
Project Name: YATES STATE BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/04/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SOIL REMOVED (H700023-04)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.070	0.050	01/06/2017	ND	2.00	99.9	2.00	0.831	
Toluene*	1.47	0.050	01/06/2017	ND	1.98	98.9	2.00	0.679	
Ethylbenzene*	4.34	0.050	01/06/2017	ND	2.01	100	2.00	0.275	
Total Xylenes*	8.99	0.150	01/06/2017	ND	5.66	94.4	6.00	0.283	
Total BTEX	14.9	0.300	01/06/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 132 % 73.6-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	01/05/2017	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	291	100	01/06/2017	ND	183	91.7	200	0.659	
DRO >C10-C28	6440	100	01/06/2017	ND	194	97.1	200	0.949	

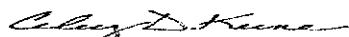
Surrogate: 1-Chlorooctane 141 % 35-147

Surrogate: 1-Chlorooctadecane 199 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

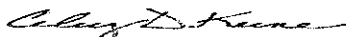
Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Rover Operating Project Manager: Kirk Farries Address: City: State: Zip: Phone #: Fax #: Project #: Project Owner: Project Name: Yates State Battery Project Location: Eddy County, NM Sampler Name: Kirk				BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST												
FOR LAB USE ONLY Lab I.D. H700023		Sample I.D. Sidewell #1 Sidewell #2 Low Point #3 Soil Removed		(GRAB OR (COMP. # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	MATRIX ACID/BASE ICE / COOL OTHER:	PRESERV.	SAMPLING DATE TIME	2 TPH BTEX ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓											

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Relinquished By: KJZ 1-4-17 Date: 1/4/17 Time: 11:10	Received By: Jodi Henson Date: Time:	Phone Result: ☐ Yes ☐ No Fax Result: ☐ Yes ☐ No REMARKS: Kfarries@roverpetro.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 30c	Sample Condition Cool Intact ☒ Yes ☐ No ☒ Yes ☐ No	CHECKED BY: (Initials)