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13 August 2015

Katie Wohlust
Red Willow Production
PO Box 369
Ignacio, CO 81137
RE: ph, EC, SAR

Enclosed are the results of analyses for samples received by the laboratory on 08/10/15 09:37.
If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads 'Debbie Zufelt'. The script is cursive and fluid, with the first name 'Debbie' and last name 'Zufelt' clearly legible.

Debbie Zufelt
Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water



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Red Willow Production
PO Box 369
Ignacio CO, 81137

Project: ph, EC, SAR
Project Name / Number: 34-10 #28-2 PL
Project Manager: Katie Wohlust

Reported:
08/13/15 15:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
1 BBL	1508106-01	Solid	08/10/15 08:45	08/10/15 09:37

Green Analytical Laboratories

A handwritten signature in black ink that reads 'Debbie Zufelt'.

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, 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 within thirty days after completion of the applicable service.



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1 BBL

1508106-01 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Saturated Paste Extraction

Calcium	21.8	10.0	0.039	mg/L	10	08/13/15	EPA200.7		JGS
Conductivity	477			umhos/cm	1	08/13/15	ASA#9 10-3.3		LLG
Magnesium	<10.0	10.0	0.190	mg/L	10	08/13/15	EPA200.7		JGS
pH	8.54			pH Units	1	08/13/15	ASA#9 12-2.6		LLG
SAR	6.17			[blank]	1	08/13/15	Calculation		JGS
Sodium	120	20.0	0.041	mg/L	10	08/13/15	EPA200.7		JGS

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Debbie Zufelt

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Saturated Paste Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B508112 - General Prep - Wet Chem

Duplicate (B508112-DUP1)	Source: 1508105-01		Prepared & Analyzed: 08/13/15							
pH	8.54		pH Units		8.59			0.584	20	

Batch B508114 - General Prep - Wet Chem

Duplicate (B508114-DUP1)	Source: 1508105-01		Prepared & Analyzed: 08/13/15							
Conductivity	882		umhos/cm		1060			18.6	20	

Batch B508115 - Paste Extract

Duplicate (B508115-DUP1)	Source: 1508105-01		Prepared: 08/12/15 Analyzed: 08/13/15							
Calcium	37.3	10.0	mg/L		30.2			20.8	20	R2
Magnesium	5.64	10.0	mg/L		3.50			46.7	20	R2
Sodium	266	20.0	mg/L		262			1.70	20	

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Notes and Definitions

R2 Duplicate sample RPD exceeded the method control limit. One or more of the duplicates was less than 5X reporting limit.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis
*Results reported on as received basis unless designated as dry.

RPD Relative Percent Difference

LCS Laboratory Control Sample (Blank Spike)

RL Report Limit

MDL Method Detection Limit

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CHAIN OF CUSTODY AND ANALYSIS REQUEST

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