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12 September 2023

Kyle Siesser
Cottonwood Consulting
PO Box 1653
Durango, CO 81302
RE: Box Elder J #1

Enclosed are the results of analyses for samples received by the laboratory on 08/29/23 16:40. The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Veronica J Wells".

Veronica Wells
Project 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. TNI Certificate Number: T104704514-23-17

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 through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: T104704398-23-16



Cottonwood Consulting	Project: Cottonwood	
PO Box 1653	Project Name / Number: Box Elder J #1	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	09/12/23 14:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS11	2308415-01	Solid	08/28/23 16:30	08/29/23 16:40	
SS12	2308415-02	Solid	08/28/23 16:40	08/29/23 16:40	
SS13	2308415-03	Solid	08/28/23 16:50	08/29/23 16:40	
SS14	2308415-04	Solid	08/28/23 16:55	08/29/23 16:40	
SS15	2308415-05	Solid	08/28/23 17:00	08/29/23 16:40	
SS16	2308415-06	Solid	08/28/23 17:10	08/29/23 16:40	
SS17	2308415-07	Solid	08/28/23 17:20	08/29/23 16:40	

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Veronica Wells, Project Manager

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: Cottonwood Project Name / Number: Box Elder J #1 Project Manager: Kyle Siesser	Reported: 09/12/23 14:08
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SS11

2308415-01 (Soil)

Sampled Date: 08/28/23 16:30

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Hexavalent Chromium	<0.250	0.250	0.191	mg/kg dry	25	09/12/23 10:19	3060A/3500-Cr B	M5	CAI
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Veronica Wells, Project Manager

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SS12

2308415-02 (Soil)

Sampled Date: 08/28/23 16:40

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Hexavalent Chromium	<0.250	0.250	0.191	mg/kg dry	25	09/12/23 10:19	3060A/3500-Cr B		CAI
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SS13

2308415-03 (Soil)

Sampled Date: 08/28/23 16:50

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	09/01/23 23:29	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	09/01/23 23:29	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	09/01/23 23:29	8015B		MS
<i>Surrogate: 1-Chlorooctane</i>			83.8 %	48.2-134		09/01/23 23:29	8015B		MS
<i>Surrogate: 1-Chlorooctadecane</i>			93.0 %	49.1-148		09/01/23 23:29	8015B		MS

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SS14

2308415-04 (Soil)

Sampled Date: 08/28/23 16:55

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	09/01/23 23:48	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	09/01/23 23:48	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	09/01/23 23:48	8015B		MS
<i>Surrogate: 1-Chlorooctane</i>			83.2 %	48.2-134		09/01/23 23:48	8015B		MS
<i>Surrogate: 1-Chlorooctadecane</i>			89.7 %	49.1-148		09/01/23 23:48	8015B		MS

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SS15

2308415-05 (Soil)

Sampled Date: 08/28/23 17:00

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	09/02/23 00:07	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	09/02/23 00:07	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	09/02/23 00:07	8015B		MS
<i>Surrogate: 1-Chlorooctane</i>			82.7 %	48.2-134		09/02/23 00:07	8015B		MS
<i>Surrogate: 1-Chlorooctadecane</i>			91.2 %	49.1-148		09/02/23 00:07	8015B		MS

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SS16

2308415-06 (Soil)

Sampled Date: 08/28/23 17:10

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	09/02/23 00:25	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	09/02/23 00:25	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	09/02/23 00:25	8015B		MS
<i>Surrogate: 1-Chlorooctane</i>			87.4 %	48.2-134		09/02/23 00:25	8015B		MS
<i>Surrogate: 1-Chlorooctadecane</i>			95.6 %	49.1-148		09/02/23 00:25	8015B		MS

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SS17

2308415-07 (Soil)

Sampled Date: 08/28/23 17:20

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	09/02/23 00:44	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	09/02/23 00:44	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	09/02/23 00:44	8015B		MS
<i>Surrogate: 1-Chlorooctane</i>			<i>96.1 %</i>	<i>48.2-134</i>		<i>09/02/23 00:44</i>	<i>8015B</i>		MS
<i>Surrogate: 1-Chlorooctadecane</i>			<i>107 %</i>	<i>49.1-148</i>		<i>09/02/23 00:44</i>	<i>8015B</i>		MS

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PO Box 1653	Project Name / Number: Box Elder J #1	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	09/12/23 14:08

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B232675 - General Prep - Wet Chem										
Blank (B232675-BLK1) Prepared: 09/07/23 Analyzed: 09/12/23										
Hexavalent Chromium	ND	0.250	mg/kg dry							
LCS (B232675-BS1) Prepared: 09/07/23 Analyzed: 09/12/23										
Hexavalent Chromium	2.14	0.250	mg/kg dry	2.50		85.7	85-115			

Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3090130 - General Prep - Organics										
Blank (3090130-BLK1) Prepared & Analyzed: 09/01/23										
Surrogate: 1-Chlorooctadecane	48.6		mg/kg	50.0		97.2	49.1-148			
Surrogate: 1-Chlorooctane	45.4		mg/kg	50.0		90.9	48.2-134			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							
LCS (3090130-BS1) Prepared & Analyzed: 09/01/23										
Surrogate: 1-Chlorooctadecane	54.3		mg/kg	50.0		109	49.1-148			
Surrogate: 1-Chlorooctane	46.9		mg/kg	50.0		93.8	48.2-134			
DRO >C10-C28	203	10.0	mg/kg	200		102	66.5-118			
GRO C6-C10	196	10.0	mg/kg	200		97.8	66.4-123			
Total TPH C6-C28	399	10.0	mg/kg	400		99.7	77.6-123			
LCS Dup (3090130-BSD1) Prepared & Analyzed: 09/01/23										
Surrogate: 1-Chlorooctadecane	53.9		mg/kg	50.0		108	49.1-148			
Surrogate: 1-Chlorooctane	48.9		mg/kg	50.0		97.9	48.2-134			
DRO >C10-C28	199	10.0	mg/kg	200		99.4	66.5-118	2.25	21	
GRO C6-C10	198	10.0	mg/kg	200		99.2	66.4-123	1.49	17.7	
Total TPH C6-C28	397	10.0	mg/kg	400		99.3	77.6-123	0.400	18.5	

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PO Box 1653	Project Name / Number: Box Elder J #1	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	09/12/23 14:08

Notes and Definitions

- M5 Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference in sample.
- 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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SAMPLE CONDITION RECEIPT FORM

Client Name: Cottonwood Consulting

Work Order # 2308-415

Courier: Fed Ex UPS USPS Client Kangaroo

Custody Seals on Box/Cooler Present: Yes No

Seals Intact: Yes No

Thermometer Used: 2 Samples on ice, cooling process has begun: Yes No

Type of Ice: Wet Blue None

Cooler Temp: Observed Temp: 5.2 °C Correction Factor: 0 °C Final Temp: 5.2 °C

*Temp should be above freezing to 6°C

Date/Initials of person examining contents: 8/29/23
SA

Labeled by Initials: _____
(if different than above)

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No	4.
Samples arrived within hold time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No	9.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Dissolved Testing Needed:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	11.
Field Filtered: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Sample Labels match COC: -Includes Date/Time/ID	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
Matrix:	WT <input checked="" type="checkbox"/> SO <input type="checkbox"/> OT	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

Client Notification/Resolution:

Person Contacted: Jacob Harker

Date/Time: 8/30/23 12:58

Comments/Resolution: Called about the missing time on sample SS17
Jacob said to go ahead and use 17:20 per the time on the sample
containers