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24 January 2023

Kyle Siesser
Cottonwood Consulting
PO Box 1653
Durango, CO 81302
RE: COGCC Table 915-1

Enclosed are the results of analyses for samples received by the laboratory on 01/09/23 14:35. 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, reading 'Jeremy D. Allen', is written in a cursive style.

Jeremy D Allen
Laboratory Director

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: T104704514-23-16

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: T104704398-22-15



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PO Box 1653
Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: Box Elder K #3
Project Manager: Kyle Siesser

Reported:
01/24/23 14:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS01	2301060-01	Solid	01/05/23 13:40	01/09/23 14:35	

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Jeremy D Allen, Laboratory Director

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Project: COGCC Table 915-1
Project Name / Number: Box Elder K #3
Project Manager: Kyle Siesser

Reported:
01/24/23 14:08

SS01

2301060-01 (Soil)

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

Hexavalent Chromium	<0.250	0.250	0.128	mg/kg dry	25	01/20/23 09:30	3060A/3500-Cr B		KRW
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Saturated Paste Extraction

Calcium	109	0.200	0.116	mg/L	2	01/18/23 20:02	EPA200.7		AES
Conductivity	1160			umho/cm@25 C	1	01/18/23 09:40	ASA#9 10-3.3		KRW
Magnesium	22.8	0.200	0.131	mg/L	2	01/18/23 20:03	EPA200.7		AES
pH	8.25			pH Units	1	01/16/23 16:00	ASA#9 10-3.2		AWG
SAR	0.44			No Unit	1	01/18/23 20:02	Calculation		AES
Sodium	19.3	2.00	0.159	mg/L	2	01/18/23 20:02	EPA200.7		AES

Total Metals by ICP

Barium	68.5	5.00	1.10	mg/kg dry	100	01/18/23 17:26	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	01/18/23 17:26	6010B		AES
Chromium	7.56	5.00	1.58	mg/kg dry	100	01/18/23 17:26	6010B		AES
Copper	6.13	5.00	2.83	mg/kg dry	100	01/18/23 17:26	6010B		AES
Lead	<10.0	10.0	4.02	mg/kg dry	100	01/18/23 17:26	6010B		AES
Nickel	<5.00	5.00	2.41	mg/kg dry	100	01/18/23 17:26	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	01/18/23 17:26	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	01/18/23 17:26	6010B		AES
Zinc	22.8	10.0	2.18	mg/kg dry	100	01/18/23 17:26	6010B		AES

Total Metals by ICPMS

Arsenic	2.89	1.00	0.158	mg/kg dry	1000	01/23/23 12:36	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	01/18/23 18:51	EPA200.7		AES
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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	01/12/23 16:33	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	01/12/23 16:33	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	01/12/23 16:33	8015B		MS

Surrogate: 1-Chlorooctane	94.2 %	48.2-134	01/12/23 16:33	8015B	MS
Surrogate: 1-Chlorooctadecane	104 %	49.1-148	01/12/23 16:33	8015B	MS

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Project: COGCC Table 915-1
Project Name / Number: Box Elder K #3
Project Manager: Kyle Siesser

Reported:
01/24/23 14:08

SS01

2301060-01 (Soil)

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

VOLATILES BY GC/MS

Benzene*	<0.0250	0.0250	0.00885	mg/kg	50	01/16/23 18:00	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	01/16/23 18:00	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	01/16/23 18:00	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	01/16/23 18:00	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	01/16/23 18:00	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0256	mg/kg	50	01/16/23 18:00	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	01/16/23 18:00	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	01/16/23 18:00	8260B		MS
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	01/16/23 18:00	8260B		MS

Surrogate: Dibromofluoromethane 96.9 % 84.6-114 01/16/23 18:00 8260B MS

Surrogate: Toluene-d8 94.2 % 90.4-109 01/16/23 18:00 8260B MS

Surrogate: 4-Bromofluorobenzene 103 % 82.5-117 01/16/23 18:00 8260B MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	01/17/23 14:32	8270C		MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	01/17/23 14:32	8270C		MS
1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	01/17/23 14:32	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	01/17/23 14:32	8270C		MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	01/17/23 14:32	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	01/17/23 14:32	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	01/17/23 14:32	8270C		MS
Pyrene*	<0.013	0.040	0.013	mg/kg	40	01/17/23 14:32	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	01/17/23 14:32	8270C		MS
Chrysene	<0.017	0.040	0.017	mg/kg	40	01/17/23 14:32	8270C		MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	01/17/23 14:32	8270C		MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	01/17/23 14:32	8270C		MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	01/17/23 14:32	8270C		MS
Indeno[1,2,3-cd]pyrene*	0.042	0.040	0.017	mg/kg	40	01/17/23 14:32	8270C		MS
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	01/17/23 14:32	8270C		MS

Surrogate: Nitrobenzene-d5 72.3 % 39.6-121 01/17/23 14:32 8270C MS

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Project: COGCC Table 915-1
Project Name / Number: Box Elder K #3
Project Manager: Kyle Siesser

Reported:
01/24/23 14:08

SS01

2301060-01 (Soil)

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

Polynuclear Aromatic Compounds by GC/MS

Surrogate: 2-Fluorobiphenyl	77.2 %	39.8-134				01/17/23 14:32	8270C		MS
Surrogate: Terphenyl-dl4	58.5 %	33.3-136				01/17/23 14:32	8270C		MS

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Project: COGCC Table 915-1
Project Name / Number: Box Elder K #3
Project Manager: Kyle Siesser

Reported:
01/24/23 14:08

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B230127 - General Prep - Wet Chem

Blank (B230127-BLK1)

Prepared: 01/18/23 Analyzed: 01/20/23

Hexavalent Chromium	ND	0.250	mg/kg dry							
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LCS (B230127-BS1)

Prepared: 01/18/23 Analyzed: 01/20/23

Hexavalent Chromium	2.16	0.250	mg/kg dry	2.50		86.6	85-115			
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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 B230096 - Paste Extract

Blank (B230096-BLK1)

Prepared: 01/16/23 Analyzed: 01/18/23

Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
SAR	0.00		No Unit							
Sodium	ND	1.00	mg/L							

Reference (B230096-SRM1)

Prepared: 01/16/23 Analyzed: 01/18/23

SAR	2.74		No Unit	2.93		93.5	90-110			
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Batch B230097 - Paste Extract

Reference (B230097-SRM1)

Prepared & Analyzed: 01/16/23

pH	7.17		pH Units	6.93		103	92-108			
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Batch B230098 - Paste Extract

Reference (B230098-SRM1)

Prepared: 01/16/23 Analyzed: 01/18/23

Conductivity	3810		umho/cm@2 5C	8340		45.7	90-110			BS2
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Project: COGCC Table 915-1
Project Name / Number: Box Elder K #3
Project Manager: Kyle Siesser

Reported:
01/24/23 14:08

Total Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B230100 - EPA 3050

Blank (B230100-BLK1)

Prepared: 01/16/23 Analyzed: 01/18/23

Barium	ND	5.00	mg/kg dry
Cadmium	ND	5.00	mg/kg dry
Chromium	ND	5.00	mg/kg dry
Copper	ND	5.00	mg/kg dry
Lead	ND	10.0	mg/kg dry
Nickel	ND	5.00	mg/kg dry
Selenium	ND	20.0	mg/kg dry
Silver	ND	1.00	mg/kg dry
Zinc	ND	10.0	mg/kg dry

LCS (B230100-BS1)

Prepared: 01/16/23 Analyzed: 01/18/23

Barium	187	5.00	mg/kg dry	200	93.5	80-120
Cadmium	176	5.00	mg/kg dry	200	87.9	80-120
Chromium	190	5.00	mg/kg dry	200	95.1	80-120
Copper	405	5.00	mg/kg dry	400	101	80-120
Lead	183	10.0	mg/kg dry	200	91.6	80-120
Nickel	182	5.00	mg/kg dry	200	90.9	80-120
Selenium	793	20.0	mg/kg dry	800	99.1	80-120
Silver	9.47	1.00	mg/kg dry	10.0	94.7	80-120
Zinc	169	10.0	mg/kg dry	200	84.5	80-120

LCS Dup (B230100-BSD1)

Prepared: 01/16/23 Analyzed: 01/18/23

Barium	188	5.00	mg/kg dry	200	94.0	80-120	0.520	20
Cadmium	177	5.00	mg/kg dry	200	88.6	80-120	0.809	20
Chromium	191	5.00	mg/kg dry	200	95.4	80-120	0.414	20
Copper	406	5.00	mg/kg dry	400	102	80-120	0.244	20
Lead	184	10.0	mg/kg dry	200	92.0	80-120	0.383	20
Nickel	184	5.00	mg/kg dry	200	91.9	80-120	1.05	20
Selenium	811	20.0	mg/kg dry	800	101	80-120	2.24	20
Silver	9.72	1.00	mg/kg dry	10.0	97.2	80-120	2.58	20
Zinc	171	10.0	mg/kg dry	200	85.3	80-120	1.03	20

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Project: COGCC Table 915-1
Project Name / Number: Box Elder K #3
Project Manager: Kyle Siesser

Reported:
01/24/23 14:08

Total Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B230101 - EPA 3050M

Blank (B230101-BLK1)

Prepared: 01/16/23 Analyzed: 01/23/23

Arsenic	ND	1.00	mg/kg dry							
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LCS (B230101-BS1)

Prepared: 01/16/23 Analyzed: 01/23/23

Arsenic	4.97	1.00	mg/kg dry	5.00		99.5	80-120			
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LCS Dup (B230101-BSD1)

Prepared: 01/16/23 Analyzed: 01/23/23

Arsenic	4.90	1.00	mg/kg dry	5.00		98.1	80-120	1.43	20	
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Hot Water Extractable - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B230085 - Hot Water Soluble Metals Extract

Blank (B230085-BLK1)

Prepared: 01/13/23 Analyzed: 01/18/23

Boron	ND	1.20	mg/L							
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Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3011129 - General Prep - Organics

Blank (3011129-BLK1)

Prepared: 01/11/23 Analyzed: 01/12/23

Surrogate: 1-Chlorooctadecane	48.5		mg/kg	50.0		97.0	49.1-148			
Surrogate: 1-Chlorooctane	42.0		mg/kg	50.0		84.0	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 (3011129-BS1)

Prepared: 01/11/23 Analyzed: 01/12/23

Surrogate: 1-Chlorooctadecane	54.0		mg/kg	50.0		108	49.1-148			
Surrogate: 1-Chlorooctane	44.2		mg/kg	50.0		88.3	48.2-134			
DRO >C10-C28	166	10.0	mg/kg	200		82.8	72.5-126			
GRO C6-C10	175	10.0	mg/kg	200		87.5	78.5-124			
Total TPH C6-C28	341	10.0	mg/kg	400		85.2	77.6-123			

LCS Dup (3011129-BSD1)

Prepared: 01/11/23 Analyzed: 01/12/23

Surrogate: 1-Chlorooctadecane	55.9		mg/kg	50.0		112	49.1-148			
Surrogate: 1-Chlorooctane	45.6		mg/kg	50.0		91.2	48.2-134			
DRO >C10-C28	198	10.0	mg/kg	200		99.0	72.5-126	17.8	21	
GRO C6-C10	198	10.0	mg/kg	200		99.1	78.5-124	12.4	17.7	
Total TPH C6-C28	396	10.0	mg/kg	400		99.1	77.6-123	15.1	18.5	

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Reported:
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VOLATILES BY GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3011210 - Volatiles

Blank (3011210-BLK1)

Prepared: 01/12/23 Analyzed: 01/16/23

1,2,4-Trimethylbenzene	ND	0.0250	mg/kg							
1,3,5-Trimethylbenzene	ND	0.0250	mg/kg							
Surrogate: 4-Bromofluorobenzene	1.23		mg/kg	1.25		98.4	82.5-117			
Benzene	ND	0.0250	mg/kg							
Surrogate: Dibromofluoromethane	1.19		mg/kg	1.25		95.0	84.6-114			
Ethylbenzene	ND	0.0250	mg/kg							
m+p - Xylene	ND	0.0500	mg/kg							
Naphthalene	ND	0.0250	mg/kg							
o-Xylene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	mg/kg							
Surrogate: Toluene-d8	1.21		mg/kg	1.25		96.5	90.4-109			
Total Xylenes	ND	0.0750	mg/kg							

LCS (3011210-BS1)

Prepared: 01/12/23 Analyzed: 01/16/23

1,2,4-Trimethylbenzene	0.483	0.0250	mg/kg	0.500		96.5	62.4-140			
1,3,5-Trimethylbenzene	0.482	0.0250	mg/kg	0.500		96.4	64.4-138			
Surrogate: 4-Bromofluorobenzene	1.22		mg/kg	1.25		97.7	82.5-117			
Benzene	0.481	0.0250	mg/kg	0.500		96.3	73-130			
Surrogate: Dibromofluoromethane	1.17		mg/kg	1.25		93.4	84.6-114			
Ethylbenzene	0.472	0.0250	mg/kg	0.500		94.3	75.4-127			
m+p - Xylene	0.963	0.0500	mg/kg	1.00		96.3	71.8-133			
Naphthalene	0.334	0.0250	mg/kg	0.500		66.8	28.7-158			
o-Xylene	0.433	0.0250	mg/kg	0.500		86.5	78.6-125			
Toluene	0.483	0.0250	mg/kg	0.500		96.6	79-122			
Surrogate: Toluene-d8	1.23		mg/kg	1.25		98.4	90.4-109			
Total Xylenes	1.40	0.0750	mg/kg	1.50		93.1	74.6-130			

LCS Dup (3011210-BS1)

Prepared: 01/12/23 Analyzed: 01/16/23

1,2,4-Trimethylbenzene	0.475	0.0250	mg/kg	0.500		95.0	62.4-140	1.57	38.2	
1,3,5-Trimethylbenzene	0.459	0.0250	mg/kg	0.500		91.8	64.4-138	4.94	39.1	
Surrogate: 4-Bromofluorobenzene	1.25		mg/kg	1.25		99.8	82.5-117			
Benzene	0.502	0.0250	mg/kg	0.500		100	73-130	4.11	17.1	
Surrogate: Dibromofluoromethane	1.24		mg/kg	1.25		99.5	84.6-114			
Ethylbenzene	0.471	0.0250	mg/kg	0.500		94.2	75.4-127	0.202	16.5	
m+p - Xylene	0.967	0.0500	mg/kg	1.00		96.7	71.8-133	0.376	19.1	
Naphthalene	0.374	0.0250	mg/kg	0.500		74.8	28.7-158	11.2	64	
o-Xylene	0.463	0.0250	mg/kg	0.500		92.5	78.6-125	6.73	13.2	
Toluene	0.474	0.0250	mg/kg	0.500		94.8	79-122	1.86	18.3	

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: Box Elder K #3
Project Manager: Kyle Siesser

Reported:
01/24/23 14:08

VOLATILES BY GC/MS - Quality Control
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3011210 - Volatiles (Continued)

LCS Dup (3011210-BSD1) (Continued)

Prepared: 01/12/23 Analyzed: 01/16/23

Surrogate: Toluene-d8	1.21		mg/kg	1.25		96.6	90.4-109			
Total Xylenes	1.43	0.0750	mg/kg	1.50		95.3	74.6-130	2.39	16.5	

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Jeremy D Allen, Laboratory Director

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: Box Elder K #3
Project Manager: Kyle Siesser

Reported:
01/24/23 14:08

Polynuclear Aromatic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3011125 - SW846-3510

Blank (3011125-BLK1)

Prepared: 01/11/23 Analyzed: 01/17/23

1-Methylnaphthalene	ND	0.040	mg/kg							
Surrogate: 2-Fluorobiphenyl	2.33		mg/kg	2.00		117	39.8-134			
2-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthene	ND	0.040	mg/kg							
Anthracene	ND	0.040	mg/kg							
Benzo[a]anthracene	ND	0.040	mg/kg							
Benzo[a]pyrene	ND	0.040	mg/kg							
Benzo[b]fluoranthene	ND	0.040	mg/kg							
Benzo[k]fluoranthene	ND	0.040	mg/kg							
Chrysene	ND	0.040	mg/kg							
Dibenz[a,h]anthracene	ND	0.040	mg/kg							
Fluoranthene	ND	0.040	mg/kg							
Fluorene	ND	0.040	mg/kg							
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg							
Naphthalene	ND	0.040	mg/kg							
Surrogate: Nitrobenzene-d5	2.32		mg/kg	2.00		116	39.6-121			
Pyrene	ND	0.040	mg/kg							
Surrogate: Terphenyl-d14	1.81		mg/kg	2.00		90.6	33.3-136			

LCS (3011125-BS1)

Prepared: 01/11/23 Analyzed: 01/17/23

1-Methylnaphthalene	0.347	0.040	mg/kg	0.400		86.7	57.6-108			
Surrogate: 2-Fluorobiphenyl	2.57		mg/kg	2.00		128	39.8-134			
2-Methylnaphthalene	0.343	0.040	mg/kg	0.400		85.8	59-106			
Acenaphthene	0.347	0.040	mg/kg	0.400		86.8	60.9-105			
Acenaphthylene	0.339	0.040	mg/kg	0.400		84.8	57.4-107			
Anthracene	0.344	0.040	mg/kg	0.400		86.0	60.8-105			
Benzo[a]anthracene	0.347	0.040	mg/kg	0.400		86.8	56.1-121			
Benzo[a]pyrene	0.333	0.040	mg/kg	0.400		83.3	56.7-115			
Benzo[b]fluoranthene	0.337	0.040	mg/kg	0.400		84.4	45.4-128			
Benzo[g,h,i]perylene	0.340	0.040	mg/kg	0.400		84.9	56.5-107			
Benzo[k]fluoranthene	0.350	0.040	mg/kg	0.400		87.5	49.6-119			
Carbazole	0.350	0.040	mg/kg	0.400		87.6	59.7-107			
Chrysene	0.354	0.040	mg/kg	0.400		88.6	12.2-190			
Dibenz[a,h]anthracene	0.350	0.040	mg/kg	0.400		87.5	59.1-111			
Fluoranthene	0.357	0.040	mg/kg	0.400		89.3	60.6-111			
Fluorene	0.341	0.040	mg/kg	0.400		85.3	59.3-108			
Indeno[1,2,3-cd]pyrene	0.341	0.040	mg/kg	0.400		85.1	53.4-116			
Naphthalene	0.355	0.040	mg/kg	0.400		88.7	56.5-106			

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: Box Elder K #3
Project Manager: Kyle Siesser

Reported:
01/24/23 14:08

Polynuclear Aromatic Compounds by GC/MS - Quality Control
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3011125 - SW846-3510 (Continued)

LCS (3011125-BS1) (Continued)

Prepared: 01/11/23 Analyzed: 01/17/23

Surrogate: Nitrobenzene-d5	2.47		mg/kg	2.00		123	39.6-121			S-05
Phenanthrene	0.349	0.040	mg/kg	0.400		87.2	59.9-107			
Pyrene	0.339	0.040	mg/kg	0.400		84.8	51.5-122			
Surrogate: Terphenyl-d14	1.78		mg/kg	2.00		89.0	33.3-136			

LCS Dup (3011125-BS1)

Prepared: 01/11/23 Analyzed: 01/17/23

1-Methylnaphthalene	0.346	0.040	mg/kg	0.400		86.4	57.6-108	0.341	6.22	
Surrogate: 2-Fluorobiphenyl	2.53		mg/kg	2.00		126	39.8-134			
2-Methylnaphthalene	0.340	0.040	mg/kg	0.400		85.1	59-106	0.802	6.23	
Acenaphthene	0.339	0.040	mg/kg	0.400		84.7	60.9-105	2.37	8.18	
Acenaphthylene	0.335	0.040	mg/kg	0.400		83.8	57.4-107	1.11	5	
Anthracene	0.345	0.040	mg/kg	0.400		86.3	60.8-105	0.412	3.68	
Benzo[a]anthracene	0.347	0.040	mg/kg	0.400		86.9	56.1-121	0.0691	9.01	
Benzo[a]pyrene	0.325	0.040	mg/kg	0.400		81.2	56.7-115	2.54	4.92	
Benzo[b]fluoranthene	0.347	0.040	mg/kg	0.400		86.8	45.4-128	2.84	7.63	
Benzo[g,h,i]perylene	0.323	0.040	mg/kg	0.400		80.7	56.5-107	5.00	12.5	
Benzo[k]fluoranthene	0.340	0.040	mg/kg	0.400		85.0	49.6-119	2.83	10.6	
Carbazole	0.345	0.040	mg/kg	0.400		86.2	59.7-107	1.64	8.65	
Chrysene	0.348	0.040	mg/kg	0.400		87.1	12.2-190	1.64	21.8	
Dibenz[a,h]anthracene	0.310	0.040	mg/kg	0.400		77.4	59.1-111	12.3	11.6	QR-04
Fluoranthene	0.348	0.040	mg/kg	0.400		86.9	60.6-111	2.69	7.54	
Fluorene	0.338	0.040	mg/kg	0.400		84.4	59.3-108	0.960	5.49	
Indeno[1,2,3-cd]pyrene	0.323	0.040	mg/kg	0.400		80.7	53.4-116	5.39	22.3	
Naphthalene	0.352	0.040	mg/kg	0.400		87.9	56.5-106	0.824	4.56	
Surrogate: Nitrobenzene-d5	2.46		mg/kg	2.00		123	39.6-121			S-05
Phenanthrene	0.345	0.040	mg/kg	0.400		86.4	59.9-107	0.899	5.21	
Pyrene	0.364	0.040	mg/kg	0.400		90.9	51.5-122	7.02	10.6	
Surrogate: Terphenyl-d14	1.91		mg/kg	2.00		95.4	33.3-136			

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Jeremy D Allen, Laboratory Director

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: Box Elder K #3
Project Manager: Kyle Siesser

Reported:
01/24/23 14:08

Notes and Definitions

S-05 The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.

QR-04 The RPD for the BS/BSD was outside of historical limits.

BS2 Laboratory control sample below laboratory acceptance criteria. Results for analyte potentially biased low.

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

(970) 247-4220 service@greenanalytical.com or dzufelt@greenanalytical.com
Fax: (970) 247-4227 75 Suttle St Durango, CO 81303

Company Name: Cottonwood Consulting LLC		P.O. #:		Bill to (if different):	
Project Manager: Kyle Slessor		Company:			
Address: PO Box 1653		Attn:			
City: Durango		State: CO		Zip: 81302	
Phone #: 970-764-7356		Email: kslessor@cottonwoodconsulting.com		Address:	
Additional Report To:		City:		State:	
Project Name:		Phone #:		Zip:	
Project Number:		Fax or Email:			
Sampler Name (Print): Emma Miller, Jacob Porter, Joseph LaFond		Matrix (check one)		# of containers	
FOR LAB USE ONLY		<input checked="" type="checkbox"/> GROUNDWATER <input type="checkbox"/> SURFACEWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> PRODUCEDWATER <input checked="" type="checkbox"/> SOIL <input type="checkbox"/> OTHER : <input type="checkbox"/> No preservation (general) <input type="checkbox"/> HNO ₃ <input type="checkbox"/> HCl <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> Other: <input type="checkbox"/> Other:		<input checked="" type="checkbox"/> COGCC Table 915	
Lab I.D.		Sample Name or Location			
2301-06601		5501			
Date		Time			
1-5-23		1340			
Receiving By:		Received By:			
Date:		Date:			
Time:		Time:			
Relinquished By:		Received By:			
Date:		Date:			
Time:		Time:			
Relinquished By:		Received By:			
Date:		Date:			
Time:		Time:			
Delivered By: (Circle One)		Temperature at receipt:		CHECKED BY:	
Sampler UPS - FedEx - Kangaroo - Other:		4.88		VSW	
† GAL cannot always accept verbal changes. Please fax or email written change requests.		onice		10505 #2	
* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.		Please provide Cottonwood EDD		Report to State? (Circle)	
				Yes	
				No	



SAMPLE CONDITION RECEIPT FORM

Client Name: Cottonwood

Work Order #

2301-058
059
060
061
062
063
064
065
066Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ ClientCustody Seals on Box/Cooler Present: ☒ Yes ☐ NoSeals Intact: ☐ Yes ☐ NoThermometer Used: 2 Samples on ice, cooling process has begun: ☒ Yes ☐ NoType of Ice: ☒ Wet ☐ Blue ☐ NoneCooler Temp: Observed Temp: 4.8 °C Correction Factor: 0 °C Final Temp: 4.8 °C

*Temp should be above freezing to 6°C

Date/Initials of person
examining contents: VJW/9/23Labeled 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 checked="" 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 checked="" 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 checked="" 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 <u>SL</u> OT	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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: _____

Date/Time: _____

Comments/Resolution: _____