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09 February 2023

Jake Harter  
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 01/25/23 16:20. 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 'Jeremy D. Allen'.

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



Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Box Elder J-1	<b>Reported:</b>
Durango CO, 81302	Project Manager: Jake Harter	02/09/23 12:46

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS10	2301164-01	Solid	01/23/23 08:55	01/25/23 16:20	

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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 J-1 Project Manager: Jake Harter	Reported: 02/09/23 12:46
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**SS10**

**2301164-01 (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	02/08/23 12:00	3060A/3500-Cr B		AES
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**Saturated Paste Extraction**

Calcium	128	0.200	0.116	mg/L	2	02/08/23 15:46	EPA200.7		AES
Conductivity	1160			umho/cm@25 C	1	02/08/23 09:00	ASA#9 10-3.3		KRW
Magnesium	23.2	0.200	0.131	mg/L	2	02/08/23 15:46	EPA200.7		AES
pH	9.70			pH Units	1	02/08/23 09:00	ASA#9 10-3.2		KRW
SAR	2.09			No Unit	1	02/08/23 15:46	Calculation		AES
Sodium	97.9	2.00	0.159	mg/L	2	02/08/23 15:46	EPA200.7		AES

**Total Metals by ICP**

Barium	91.1	5.00	1.10	mg/kg dry	100	02/07/23 13:06	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	02/07/23 13:06	6010B		AES
Chromium	13.0	5.00	1.58	mg/kg dry	100	02/07/23 13:06	6010B		AES
Copper	5.06	5.00	2.83	mg/kg dry	100	02/07/23 13:06	6010B		AES
Lead	<10.0	10.0	4.02	mg/kg dry	100	02/07/23 13:06	6010B		AES
Nickel	7.00	5.00	2.41	mg/kg dry	100	02/07/23 13:06	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	02/07/23 13:06	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	02/07/23 13:06	6010B		AES
Zinc	25.5	10.0	2.18	mg/kg dry	100	02/07/23 13:06	6010B		AES

**Total Metals by ICPMS**

Arsenic	2.35	1.00	0.158	mg/kg dry	1000	02/03/23 15:12	6020A		AES
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**Hot Water Extractable**

Boron	<1.20	1.20	0.568	mg/L	4	02/07/23 19:52	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	01/30/23 20:30	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	01/30/23 20:30	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	01/30/23 20:30	8015B		MS

Surrogate: 1-Chlorooctane			83.9 %	48.2-134		01/30/23 20:30	8015B		MS
Surrogate: 1-Chlorooctadecane			86.9 %	49.1-148		01/30/23 20:30	8015B		MS

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Cottonwood Consulting	Project: COGCC Table 915-1	Reported:
PO Box 1653	Project Name / Number: Box Elder J-1	02/09/23 12:46
Durango CO, 81302	Project Manager: Jake Harter	

SS10

2301164-01 (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*	<0.00885	0.0250	0.00885	mg/kg	50	01/30/23 15:55	8260B		MS
Toluene*	<0.00670	0.0250	0.00670	mg/kg	50	01/30/23 15:55	8260B		MS
Ethylbenzene*	<0.00405	0.0250	0.00405	mg/kg	50	01/30/23 15:55	8260B		MS
m+p - Xylene*	<0.0186	0.0500	0.0186	mg/kg	50	01/30/23 15:55	8260B		MS
o-Xylene*	<0.00700	0.0250	0.00700	mg/kg	50	01/30/23 15:55	8260B		MS
Total Xylenes*	<0.0256	0.0750	0.0256	mg/kg	50	01/30/23 15:55	8260B		MS
1,3,5-Trimethylbenzene	<0.00450	0.0250	0.00450	mg/kg	50	01/30/23 15:55	8260B		MS
1,2,4-Trimethylbenzene	0.0231	0.0250	0.00650	mg/kg	50	01/30/23 15:55	8260B	J	MS
Naphthalene*	<0.00500	0.0250	0.00500	mg/kg	50	01/30/23 15:55	8260B		MS
Surrogate: Dibromofluoromethane			96.3 %	84.6-114		01/30/23 15:55	8260B		MS
Surrogate: Toluene-d8			98.5 %	90.4-109		01/30/23 15:55	8260B		MS
Surrogate: 4-Bromofluorobenzene			102 %	82.5-117		01/30/23 15:55	8260B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	02/01/23 20:41	8270C		MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	02/01/23 20:41	8270C		MS
1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	02/01/23 20:41	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	02/01/23 20:41	8270C		MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	02/01/23 20:41	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	02/01/23 20:41	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	02/01/23 20:41	8270C		MS
Pyrene*	<0.013	0.040	0.013	mg/kg	40	02/01/23 20:41	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	02/01/23 20:41	8270C		MS
Chrysene	<0.017	0.040	0.017	mg/kg	40	02/01/23 20:41	8270C		MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	02/01/23 20:41	8270C		MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	02/01/23 20:41	8270C		MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	02/01/23 20:41	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	02/01/23 20:41	8270C		MS
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	02/01/23 20:41	8270C		MS
Surrogate: Nitrobenzene-d5			82.8 %	39.6-121		02/01/23 20:41	8270C		MS

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Box Elder J-1	<b>Reported:</b>
Durango CO, 81302	Project Manager: Jake Harter	02/09/23 12:46

SS10

2301164-01 (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	81.7 %	39.8-134				02/01/23 20:41	8270C		MS
Surrogate: Terphenyl-d14	89.4 %	33.3-136				02/01/23 20:41	8270C		MS

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PO Box 1653	Project Name / Number: Box Elder J-1	<b>Reported:</b>
Durango CO, 81302	Project Manager: Jake Harter	02/09/23 12:46

**General Chemistry - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B230285 - General Prep - Wet Chem</b>										
<b>Blank (B230285-BLK1)</b> Prepared & Analyzed: 02/08/23										
Hexavalent Chromium	ND	0.250	mg/kg dry							
<b>LCS (B230285-BS1)</b> Prepared & Analyzed: 02/08/23										
Hexavalent Chromium	2.26	0.250	mg/kg dry	2.50		90.3	85-115			

**Saturated Paste Extraction - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B230274 - Paste Extract</b>										
<b>Blank (B230274-BLK1)</b> Prepared: 02/07/23 Analyzed: 02/08/23										
Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
SAR	0.00		No Unit							
Sodium	ND	1.00	mg/L							
<b>Reference (B230274-SRM1)</b> Prepared: 02/07/23 Analyzed: 02/08/23										
SAR	2.71		No Unit	2.93		92.4	90-110			
<b>Batch B230275 - Paste Extract</b>										
<b>Reference (B230275-SRM1)</b> Prepared: 02/07/23 Analyzed: 02/08/23										
pH	6.90		pH Units	7.08		97.5	92-108			
<b>Batch B230276 - Paste Extract</b>										
<b>Reference (B230276-SRM1)</b> Prepared: 02/07/23 Analyzed: 02/08/23										
Conductivity	3940		umho/cm@25C	4000		98.5	90-110			

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Box Elder J-1	<b>Reported:</b>
Durango CO, 81302	Project Manager: Jake Harter	02/09/23 12:46

**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 B230234 - EPA 3050**

**Blank (B230234-BLK1)**

Prepared: 02/01/23 Analyzed: 02/07/23

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 (B230234-BS1)**

Prepared: 02/01/23 Analyzed: 02/07/23

Barium	95.0	5.00	mg/kg dry	100		95.0	80-120			
Cadmium	90.9	5.00	mg/kg dry	100		90.9	80-120			
Chromium	96.3	5.00	mg/kg dry	100		96.3	80-120			
Copper	198	5.00	mg/kg dry	200		99.1	80-120			
Lead	92.0	10.0	mg/kg dry	100		92.0	80-120			
Nickel	92.9	5.00	mg/kg dry	100		92.9	80-120			
Selenium	391	20.0	mg/kg dry	400		97.6	80-120			
Silver	4.70	1.00	mg/kg dry	5.00		94.0	80-120			
Zinc	86.8	10.0	mg/kg dry	100		86.8	80-120			

**LCS Dup (B230234-BSD1)**

Prepared: 02/01/23 Analyzed: 02/07/23

Barium	94.4	5.00	mg/kg dry	100		94.4	80-120	0.607	20	
Cadmium	90.7	5.00	mg/kg dry	100		90.7	80-120	0.258	20	
Chromium	95.8	5.00	mg/kg dry	100		95.8	80-120	0.466	20	
Copper	198	5.00	mg/kg dry	200		98.8	80-120	0.321	20	
Lead	91.9	10.0	mg/kg dry	100		91.9	80-120	0.145	20	
Nickel	92.6	5.00	mg/kg dry	100		92.6	80-120	0.298	20	
Selenium	397	20.0	mg/kg dry	400		99.2	80-120	1.60	20	
Silver	4.73	1.00	mg/kg dry	5.00		94.6	80-120	0.592	20	
Zinc	86.6	10.0	mg/kg dry	100		86.6	80-120	0.257	20	

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Box Elder J-1	<b>Reported:</b>
Durango CO, 81302	Project Manager: Jake Harter	02/09/23 12:46

**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 B230236 - EPA 3050M**

**Blank (B230236-BLK1)**

Prepared: 02/01/23 Analyzed: 02/03/23

Arsenic	ND	1.00	mg/kg dry							
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**LCS (B230236-BS1)**

Prepared: 02/01/23 Analyzed: 02/03/23

Arsenic	4.51	1.00	mg/kg dry	5.00		90.2	80-120			
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**LCS Dup (B230236-BSD1)**

Prepared: 02/01/23 Analyzed: 02/03/23

Arsenic	4.88	1.00	mg/kg dry	5.00		97.7	80-120	7.95	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 B230271 - Hot Water Soluble Metals Extract**

**Blank (B230271-BLK1)**

Prepared: 02/06/23 Analyzed: 02/07/23

Boron	ND	1.20	mg/L							
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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Box Elder J-1	<b>Reported:</b>
Durango CO, 81302	Project Manager: Jake Harter	02/09/23 12:46

**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 3012729 - General Prep - Organics**

**Blank (3012729-BLK1)**

Prepared: 01/27/23 Analyzed: 01/30/23

Surrogate: 1-Chlorooctadecane	44.0		mg/kg	50.0		87.9	49.1-148			
Surrogate: 1-Chlorooctane	41.4		mg/kg	50.0		82.8	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 (3012729-BS1)**

Prepared: 01/27/23 Analyzed: 01/30/23

Surrogate: 1-Chlorooctadecane	57.8		mg/kg	50.0		116	49.1-148			
Surrogate: 1-Chlorooctane	51.9		mg/kg	50.0		104	48.2-134			
DRO >C10-C28	230	10.0	mg/kg	200		115	72.5-126			
GRO C6-C10	230	10.0	mg/kg	200		115	78.5-124			
Total TPH C6-C28	460	10.0	mg/kg	400		115	77.6-123			

**LCS Dup (3012729-BSD1)**

Prepared: 01/27/23 Analyzed: 01/30/23

Surrogate: 1-Chlorooctadecane	46.3		mg/kg	50.0		92.7	49.1-148			
Surrogate: 1-Chlorooctane	42.6		mg/kg	50.0		85.3	48.2-134			
DRO >C10-C28	177	10.0	mg/kg	200		88.3	72.5-126	26.2	21	QR-04
GRO C6-C10	178	10.0	mg/kg	200		89.2	78.5-124	25.0	17.7	QR-04
Total TPH C6-C28	355	10.0	mg/kg	400		88.8	77.6-123	25.6	18.5	QR-04

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PO Box 1653	Project Name / Number: Box Elder J-1	Reported:
Durango CO, 81302	Project Manager: Jake Harter	02/09/23 12:46

**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 3012721 - Volatiles**

**Blank (3012721-BLK1)**

Prepared: 01/27/23 Analyzed: 01/30/23

1,2,4-Trimethylbenzene	ND	0.0250	mg/kg							
1,3,5-Trimethylbenzene	ND	0.0250	mg/kg							
<i>Surrogate: 4-Bromofluorobenzene</i>	1.24		mg/kg	1.25		99.1	82.5-117			
Benzene	ND	0.0250	mg/kg							
<i>Surrogate: Dibromofluoromethane</i>	1.20		mg/kg	1.25		96.0	84.6-114			
Ethylbenzene	ND	0.0250	mg/kg							
m+p - Xylene	ND	0.0500	mg/kg							
Naphthalene	0.00605	0.0250	mg/kg							J
o-Xylene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	mg/kg							
<i>Surrogate: Toluene-d8</i>	1.28		mg/kg	1.25		103	90.4-109			
Total Xylenes	ND	0.0750	mg/kg							

**LCS (3012721-BS1)**

Prepared: 01/27/23 Analyzed: 01/30/23

1,2,4-Trimethylbenzene	0.498	0.0250	mg/kg	0.500		99.5	62.4-140			
1,3,5-Trimethylbenzene	0.521	0.0250	mg/kg	0.500		104	64.4-138			
<i>Surrogate: 4-Bromofluorobenzene</i>	1.27		mg/kg	1.25		102	82.5-117			
Benzene	0.496	0.0250	mg/kg	0.500		99.2	73-130			
<i>Surrogate: Dibromofluoromethane</i>	1.23		mg/kg	1.25		98.6	84.6-114			
Ethylbenzene	0.514	0.0250	mg/kg	0.500		103	75.4-127			
m+p - Xylene	1.03	0.0500	mg/kg	1.00		103	71.8-133			
Naphthalene	0.448	0.0250	mg/kg	0.500		89.7	28.7-158			
o-Xylene	0.504	0.0250	mg/kg	0.500		101	78.6-125			
Toluene	0.506	0.0250	mg/kg	0.500		101	79-122			
<i>Surrogate: Toluene-d8</i>	1.26		mg/kg	1.25		101	90.4-109			
Total Xylenes	1.53	0.0750	mg/kg	1.50		102	74.6-130			

**LCS Dup (3012721-BSD1)**

Prepared: 01/27/23 Analyzed: 01/30/23

1,2,4-Trimethylbenzene	0.502	0.0250	mg/kg	0.500		100	62.4-140	0.835	38.2	
1,3,5-Trimethylbenzene	0.519	0.0250	mg/kg	0.500		104	64.4-138	0.377	39.1	
<i>Surrogate: 4-Bromofluorobenzene</i>	1.26		mg/kg	1.25		101	82.5-117			
Benzene	0.492	0.0250	mg/kg	0.500		98.5	73-130	0.741	17.1	
<i>Surrogate: Dibromofluoromethane</i>	1.25		mg/kg	1.25		100	84.6-114			
Ethylbenzene	0.515	0.0250	mg/kg	0.500		103	75.4-127	0.311	16.5	
m+p - Xylene	1.04	0.0500	mg/kg	1.00		104	71.8-133	0.687	19.1	
Naphthalene	0.472	0.0250	mg/kg	0.500		94.5	28.7-158	5.23	64	
o-Xylene	0.506	0.0250	mg/kg	0.500		101	78.6-125	0.386	13.2	
Toluene	0.508	0.0250	mg/kg	0.500		102	79-122	0.408	18.3	

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Jeremy D Allen, Laboratory Director

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Box Elder J-1	<b>Reported:</b>
Durango CO, 81302	Project Manager: Jake Harter	02/09/23 12:46

**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 3012721 - Volatiles (Continued)**

**LCS Dup (3012721-BSD1) (Continued)**

Prepared: 01/27/23 Analyzed: 01/30/23

Surrogate: Toluene-d8	1.26		mg/kg	1.25		101	90.4-109			
Total Xylenes	1.54	0.0750	mg/kg	1.50		103	74.6-130	0.588	16.5	

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Cottonwood Consulting	Project: COGCC Table 915-1	Reported:
PO Box 1653	Project Name / Number: Box Elder J-1	02/09/23 12:46
Durango CO, 81302	Project Manager: Jake Harter	

**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 3012724 - SW846-3510**

**Blank (3012724-BLK1)**

Prepared: 01/27/23 Analyzed: 02/01/23

1-Methylnaphthalene	ND	0.040	mg/kg							
<i>Surrogate: 2-Fluorobiphenyl</i>	2.37		mg/kg	2.00		119	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]flouranthene	ND	0.040	mg/kg							
Benzo[k]flouranthene	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							
<i>Surrogate: Nitrobenzene-d5</i>	2.31		mg/kg	2.00		116	39.6-121			
Pyrene	ND	0.040	mg/kg							
<i>Surrogate: Terphenyl-d14</i>	1.84		mg/kg	2.00		91.8	33.3-136			

**LCS (3012724-BS1)**

Prepared: 01/27/23 Analyzed: 02/01/23

1-Methylnaphthalene	0.343	0.040	mg/kg	0.400		85.8	57.6-108			
<i>Surrogate: 2-Fluorobiphenyl</i>	2.54		mg/kg	2.00		127	39.8-134			
2-Methylnaphthalene	0.328	0.040	mg/kg	0.400		81.9	59-106			
Acenaphthene	0.321	0.040	mg/kg	0.400		80.3	60.9-105			
Acenaphthylene	0.345	0.040	mg/kg	0.400		86.2	57.4-107			
Anthracene	0.338	0.040	mg/kg	0.400		84.4	60.8-105			
Benzo[a]anthracene	0.349	0.040	mg/kg	0.400		87.3	56.1-121			
Benzo[a]pyrene	0.320	0.040	mg/kg	0.400		79.9	56.7-115			
Benzo[b]flouranthene	0.326	0.040	mg/kg	0.400		81.4	45.4-128			
Benzo[g,h,i]perylene	0.329	0.040	mg/kg	0.400		82.1	56.5-107			
Benzo[k]flouranthene	0.321	0.040	mg/kg	0.400		80.3	49.6-119			
Carbazole	0.335	0.040	mg/kg	0.400		83.7	59.7-107			
Chrysene	0.350	0.040	mg/kg	0.400		87.6	12.2-190			
Dibenz[a,h]anthracene	0.324	0.040	mg/kg	0.400		80.9	59.1-111			
Fluoranthene	0.338	0.040	mg/kg	0.400		84.5	60.6-111			
Fluorene	0.341	0.040	mg/kg	0.400		85.2	59.3-108			
Indeno[1,2,3-cd]pyrene	0.326	0.040	mg/kg	0.400		81.4	53.4-116			
Naphthalene	0.339	0.040	mg/kg	0.400		84.8	56.5-106			

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Box Elder J-1	<b>Reported:</b>
Durango CO, 81302	Project Manager: Jake Harter	02/09/23 12:46

**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 3012724 - SW846-3510 (Continued)**

**LCS (3012724-BS1) (Continued)**

Prepared: 01/27/23 Analyzed: 02/01/23

<i>Surrogate: Nitrobenzene-d5</i>	2.50		mg/kg	2.00		125	39.6-121			S-04
Phenanthrene	0.344	0.040	mg/kg	0.400		86.1	59.9-107			
Pyrene	0.361	0.040	mg/kg	0.400		90.3	51.5-122			
<i>Surrogate: Terphenyl-d14</i>	1.81		mg/kg	2.00		90.4	33.3-136			

**LCS Dup (3012724-BSD1)**

Prepared: 01/27/23 Analyzed: 02/01/23

1-Methylnaphthalene	0.356	0.040	mg/kg	0.400		89.1	57.6-108	3.74	6.22	
<i>Surrogate: 2-Fluorobiphenyl</i>	2.51		mg/kg	2.00		125	39.8-134			
2-Methylnaphthalene	0.338	0.040	mg/kg	0.400		84.5	59-106	3.06	6.23	
Acenaphthene	0.330	0.040	mg/kg	0.400		82.6	60.9-105	2.84	8.18	
Acenaphthylene	0.340	0.040	mg/kg	0.400		85.1	57.4-107	1.25	5	
Anthracene	0.343	0.040	mg/kg	0.400		85.8	60.8-105	1.70	3.68	
Benzo[a]anthracene	0.340	0.040	mg/kg	0.400		85.1	56.1-121	2.49	9.01	
Benzo[a]pyrene	0.317	0.040	mg/kg	0.400		79.3	56.7-115	0.741	4.92	
Benzo[b]fluoranthene	0.339	0.040	mg/kg	0.400		84.7	45.4-128	3.97	7.63	
Benzo[g,h,i]perylene	0.304	0.040	mg/kg	0.400		76.0	56.5-107	7.71	12.5	
Benzo[k]fluoranthene	0.343	0.040	mg/kg	0.400		85.6	49.6-119	6.46	10.6	
Carbazole	0.364	0.040	mg/kg	0.400		90.9	59.7-107	8.25	8.65	
Chrysene	0.352	0.040	mg/kg	0.400		88.1	12.2-190	0.592	21.8	
Dibenz[a,h]anthracene	0.308	0.040	mg/kg	0.400		77.1	59.1-111	4.87	11.6	
Fluoranthene	0.369	0.040	mg/kg	0.400		92.1	60.6-111	8.59	7.54	QR-04
Fluorene	0.341	0.040	mg/kg	0.400		85.3	59.3-108	0.0791	5.49	
Indeno[1,2,3-cd]pyrene	0.312	0.040	mg/kg	0.400		78.0	53.4-116	4.25	22.3	
Naphthalene	0.344	0.040	mg/kg	0.400		86.1	56.5-106	1.50	4.56	
<i>Surrogate: Nitrobenzene-d5</i>	2.46		mg/kg	2.00		123	39.6-121			S-04
Phenanthrene	0.345	0.040	mg/kg	0.400		86.3	59.9-107	0.191	5.21	
Pyrene	0.340	0.040	mg/kg	0.400		85.1	51.5-122	6.00	10.6	
<i>Surrogate: Terphenyl-d14</i>	1.70		mg/kg	2.00		84.8	33.3-136			

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Box Elder J-1	<b>Reported:</b>
Durango CO, 81302	Project Manager: Jake Harter	02/09/23 12:46

**Notes and Definitions**

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-04 The RPD for the BS/BSD was outside of historical limits.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- 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

2301-110  
-161  
-162  
-163  
-164  
-165  
-166  
-167  
-168  
-169  
-170

Client Name: Cottonwood

Work Order # \_\_\_\_\_

Courier:  Fed Ex  UPS  USPS  Client

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: 2.9 °C      Correction Factor: 0 °C      Final Temp: 2.9 °C

\*Temp should be above freezing to 6°C

Date/Initials of person examining contents: VTW/MRN 1/25/2  
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 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> QT	
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: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_