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25 October 2022

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 10/06/22 09:40. 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 '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: T104704514-22-15

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	Reported:
Durango CO, 81302	Project Manager: Jake Harter	10/25/22 14:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS01	2210059-01	Solid	10/05/22 08:55	10/06/22 09:40	
SS02	2210059-02	Solid	10/05/22 09:00	10/06/22 09:40	
SS03	2210059-03	Solid	10/05/22 09:05	10/06/22 09:40	
SS04	2210059-04	Solid	10/05/22 09:10	10/06/22 09:40	
SS05	2210059-05	Solid	10/05/22 09:15	10/06/22 09:40	
SS06	2210059-06	Solid	10/05/22 09:20	10/06/22 09:40	
SS07	2210059-07	Solid	10/05/22 09:25	10/06/22 09:40	
SS08	2210059-08	Solid	10/05/22 09:30	10/06/22 09:40	

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 J#1 Project Manager: Jake Harter	Reported: 10/25/22 14:02
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SS01

2210059-01 (Soil)

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

Hexavalent Chromium	0.298	0.250	0.128	mg/kg dry	25	10/19/22 09:57	3060A/3500-Cr B		HTB
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Saturated Paste Extraction

Calcium	129	0.500	0.289	mg/L	5	10/24/22 14:03	EPA200.7		AES
Conductivity	950			umho/cm@25 C	1	10/19/22 14:15	ASA#9 10-3.3		AWG
Magnesium	24.8	0.500	0.327	mg/L	5	10/24/22 14:04	EPA200.7		AES
pH	7.35			pH Units	1	10/19/22 14:15	ASA#9 10-3.2		AWG
SAR	0.78			No Unit	1	10/24/22 14:03	Calculation		AES
Sodium	36.7	5.00	0.396	mg/L	5	10/24/22 14:03	EPA200.7		AES

Total Metals by ICP

Barium	97.9	5.00	1.10	mg/kg dry	100	10/18/22 14:10	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	10/18/22 14:10	6010B		AES
Chromium	15.4	5.00	1.58	mg/kg dry	100	10/18/22 14:10	6010B		AES
Copper	8.03	5.00	2.83	mg/kg dry	100	10/18/22 14:10	6010B		AES
Lead	12.0	10.0	4.02	mg/kg dry	100	10/18/22 14:10	6010B		AES
Nickel	7.75	5.00	2.41	mg/kg dry	100	10/18/22 14:10	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	10/18/22 14:10	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	10/18/22 14:10	6010B		AES
Zinc	35.6	10.0	2.18	mg/kg dry	100	10/18/22 14:10	6010B		AES

Total Metals by ICPMS

Arsenic	3.15	1.00	0.158	mg/kg dry	1000	10/17/22 16:52	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	10/20/22 12:13	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	10/10/22 23:31	8015B		MS
DRO >C10-C28*	824	10.0	4.26	mg/kg	1	10/10/22 23:31	8015B		MS
EXT DRO >C28-C36	685	10.0	4.26	mg/kg	1	10/10/22 23:31	8015B		MS

Surrogate: 1-Chlorooctane			82.8 %	45.3-161		10/10/22 23:31	8015B		MS
Surrogate: 1-Chlorooctadecane			90.2 %	46.3-178		10/10/22 23:31	8015B		MS

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Jeremy D Allen, Laboratory Director

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Cottonwood Consulting	Project: COGCC Table 915-1	Reported: 10/25/22 14:02
PO Box 1653	Project Name / Number: Box Elder J#1	
Durango CO, 81302	Project Manager: Jake Harter	

SS01

2210059-01 (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	10/11/22 13:57	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	10/11/22 13:57	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	10/11/22 13:57	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	10/11/22 13:57	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	10/11/22 13:57	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0256	mg/kg	50	10/11/22 13:57	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	10/11/22 13:57	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	10/11/22 13:57	8260B		MS
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	10/11/22 13:57	8260B		MS
Surrogate: Dibromofluoromethane			97.1 %	84.6-114		10/11/22 13:57	8260B		MS
Surrogate: Toluene-d8			99.7 %	90.4-109		10/11/22 13:57	8260B		MS
Surrogate: 4-Bromofluorobenzene			99.0 %	82.5-117		10/11/22 13:57	8260B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	10/12/22 13:42	8270C		MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	10/12/22 13:42	8270C		MS
1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	10/12/22 13:42	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	10/12/22 13:42	8270C		MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	10/12/22 13:42	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	10/12/22 13:42	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	10/12/22 13:42	8270C		MS
Pyrene*	<0.013	0.040	0.013	mg/kg	40	10/12/22 13:42	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	10/12/22 13:42	8270C		MS
Chrysene	<0.017	0.040	0.017	mg/kg	40	10/12/22 13:42	8270C		MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	10/12/22 13:42	8270C		MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	10/12/22 13:42	8270C		MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	10/12/22 13:42	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	10/12/22 13:42	8270C		MS
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	10/12/22 13:42	8270C		MS
Surrogate: Nitrobenzene-d5			71.4 %	39.6-121		10/12/22 13:42	8270C		MS

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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	Reported:
Durango CO, 81302	Project Manager: Jake Harter	10/25/22 14:02

SS01

2210059-01 (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	94.0 %	39.8-134				10/12/22 13:42	8270C		MS
Surrogate: Terphenyl-d14	78.5 %	33.3-136				10/12/22 13:42	8270C		MS

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Box Elder J#1	Reported:
Durango CO, 81302	Project Manager: Jake Harter	10/25/22 14:02

SS02

2210059-02 (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	10/19/22 09:57	3060A/3500-Cr B		HTB
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Saturated Paste Extraction

Calcium	38.2	0.100	0.058	mg/L	1	10/24/22 14:05	EPA200.7		AES
Conductivity	362			umho/cm@25 C	1	10/19/22 14:15	ASA#9 10-3.3		AWG
Magnesium	12.3	0.100	0.065	mg/L	1	10/24/22 14:05	EPA200.7		AES
pH	7.79			pH Units	1	10/19/22 14:15	ASA#9 10-3.2		AWG
SAR	0.64			No Unit	1	10/24/22 14:05	Calculation		AES
Sodium	17.7	1.00	0.079	mg/L	1	10/24/22 14:05	EPA200.7		AES

Total Metals by ICP

Barium	78.2	5.00	1.10	mg/kg dry	100	10/18/22 14:14	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	10/18/22 14:14	6010B		AES
Chromium	8.78	5.00	1.58	mg/kg dry	100	10/18/22 14:14	6010B		AES
Copper	<5.00	5.00	2.83	mg/kg dry	100	10/18/22 14:14	6010B		AES
Lead	<10.0	10.0	4.02	mg/kg dry	100	10/18/22 14:14	6010B		AES
Nickel	<5.00	5.00	2.41	mg/kg dry	100	10/18/22 14:14	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	10/18/22 14:14	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	10/18/22 14:14	6010B		AES
Zinc	23.7	10.0	2.18	mg/kg dry	100	10/18/22 14:14	6010B		AES

Total Metals by ICPMS

Arsenic	2.47	1.00	0.158	mg/kg dry	1000	10/17/22 16:53	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	10/20/22 12:18	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	10/10/22 23:52	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/10/22 23:52	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/10/22 23:52	8015B		MS

Surrogate: 1-Chlorooctane	79.8 %	45.3-161				10/10/22 23:52	8015B		MS
Surrogate: 1-Chlorooctadecane	90.8 %	46.3-178				10/10/22 23:52	8015B		MS

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Cottonwood Consulting	Project: COGCC Table 915-1	Reported: 10/25/22 14:02
PO Box 1653	Project Name / Number: Box Elder J#1	
Durango CO, 81302	Project Manager: Jake Harter	

SS02

2210059-02 (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	10/11/22 14:20	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	10/11/22 14:20	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	10/11/22 14:20	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	10/11/22 14:20	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	10/11/22 14:20	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0256	mg/kg	50	10/11/22 14:20	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	10/11/22 14:20	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	10/11/22 14:20	8260B		MS
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	10/11/22 14:20	8260B		MS
Surrogate: Dibromofluoromethane			95.6 %	84.6-114		10/11/22 14:20	8260B		MS
Surrogate: Toluene-d8			100 %	90.4-109		10/11/22 14:20	8260B		MS
Surrogate: 4-Bromofluorobenzene			102 %	82.5-117		10/11/22 14:20	8260B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	10/15/22 02:08	8270C		MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	10/15/22 02:08	8270C		MS
1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	10/15/22 02:08	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	10/15/22 02:08	8270C		MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	10/15/22 02:08	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	10/15/22 02:08	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	10/15/22 02:08	8270C		MS
Pyrene*	<0.013	0.040	0.013	mg/kg	40	10/15/22 02:08	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	10/15/22 02:08	8270C		MS
Chrysene	<0.017	0.040	0.017	mg/kg	40	10/15/22 02:08	8270C		MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	10/15/22 02:08	8270C		MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	10/15/22 02:08	8270C		MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	10/15/22 02:08	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	10/15/22 02:08	8270C		MS
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	10/15/22 02:08	8270C		MS
Surrogate: Nitrobenzene-d5			67.6 %	39.6-121		10/15/22 02:08	8270C		MS

Green Analytical Laboratories

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	Reported:
Durango CO, 81302	Project Manager: Jake Harter	10/25/22 14:02

SS02

2210059-02 (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	74.4 %	39.8-134				10/15/22 02:08	8270C		MS
Surrogate: Terphenyl-d14	64.4 %	33.3-136				10/15/22 02:08	8270C		MS

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 J#1 Project Manager: Jake Harter	Reported: 10/25/22 14:02
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SS03

2210059-03 (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	10/19/22 09:57	3060A/3500-Cr B		HTB
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Saturated Paste Extraction

Calcium	123	0.100	0.058	mg/L	1	10/24/22 14:08	EPA200.7		AES
Conductivity	850			umho/cm@25 C	1	10/19/22 14:15	ASA#9 10-3.3		AWG
Magnesium	10.2	0.100	0.065	mg/L	1	10/24/22 14:08	EPA200.7		AES
pH	7.77			pH Units	1	10/19/22 14:15	ASA#9 10-3.2		AWG
SAR	0.48			No Unit	1	10/24/22 14:08	Calculation		AES
Sodium	20.7	1.00	0.079	mg/L	1	10/24/22 14:08	EPA200.7		AES

Total Metals by ICP

Barium	81.1	5.00	1.10	mg/kg dry	100	10/18/22 14:19	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	10/18/22 14:19	6010B		AES
Chromium	10.3	5.00	1.58	mg/kg dry	100	10/18/22 14:19	6010B		AES
Copper	6.12	5.00	2.83	mg/kg dry	100	10/18/22 14:19	6010B		AES
Lead	<10.0	10.0	4.02	mg/kg dry	100	10/18/22 14:19	6010B		AES
Nickel	<5.00	5.00	2.41	mg/kg dry	100	10/18/22 14:19	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	10/18/22 14:18	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	10/18/22 14:18	6010B		AES
Zinc	41.2	10.0	2.18	mg/kg dry	100	10/18/22 14:19	6010B		AES

Total Metals by ICPMS

Arsenic	2.54	1.00	0.158	mg/kg dry	1000	10/17/22 16:55	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	10/20/22 12:20	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	10/11/22 00:12	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/11/22 00:12	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/11/22 00:12	8015B		MS

Surrogate: 1-Chlorooctane			80.6 %	45.3-161		10/11/22 00:12	8015B		MS
Surrogate: 1-Chlorooctadecane			92.9 %	46.3-178		10/11/22 00:12	8015B		MS

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Jeremy D Allen, Laboratory Director

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Cottonwood Consulting	Project: COGCC Table 915-1	Reported:
PO Box 1653	Project Name / Number: Box Elder J#1	10/25/22 14:02
Durango CO, 81302	Project Manager: Jake Harter	

SS03

2210059-03 (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	10/11/22 14:43	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	10/11/22 14:43	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	10/11/22 14:43	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	10/11/22 14:43	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	10/11/22 14:43	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0256	mg/kg	50	10/11/22 14:43	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	10/11/22 14:43	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	10/11/22 14:43	8260B		MS
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	10/11/22 14:43	8260B		MS
Surrogate: Dibromofluoromethane			96.1 %	84.6-114		10/11/22 14:43	8260B		MS
Surrogate: Toluene-d8			98.8 %	90.4-109		10/11/22 14:43	8260B		MS
Surrogate: 4-Bromofluorobenzene			99.2 %	82.5-117		10/11/22 14:43	8260B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	10/12/22 14:41	8270C		MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	10/12/22 14:41	8270C		MS
1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	10/12/22 14:41	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	10/12/22 14:41	8270C		MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	10/12/22 14:41	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	10/12/22 14:41	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	10/12/22 14:41	8270C		MS
Pyrene*	0.014	0.040	0.013	mg/kg	40	10/12/22 14:41	8270C	J	MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	10/12/22 14:41	8270C		MS
Chrysene	<0.017	0.040	0.017	mg/kg	40	10/12/22 14:41	8270C		MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	10/12/22 14:41	8270C		MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	10/12/22 14:41	8270C		MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	10/12/22 14:41	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	10/12/22 14:41	8270C		MS
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	10/12/22 14:41	8270C		MS
Surrogate: Nitrobenzene-d5			72.3 %	39.6-121		10/12/22 14:41	8270C		MS

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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	Reported:
Durango CO, 81302	Project Manager: Jake Harter	10/25/22 14:02

SS03

2210059-03 (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	89.1 %	39.8-134				10/12/22 14:41	8270C		MS
Surrogate: Terphenyl-d14	94.6 %	33.3-136				10/12/22 14:41	8270C		MS

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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: 10/25/22 14:02
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SS04

2210059-04 (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	10/19/22 09:57	3060A/3500-Cr B		HTB
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Saturated Paste Extraction

Calcium	134	0.100	0.058	mg/L	1	10/24/22 14:12	EPA200.7		AES
Conductivity	823			umho/cm@25 C	1	10/19/22 14:15	ASA#9 10-3.3		AWG
Magnesium	9.21	0.100	0.065	mg/L	1	10/24/22 14:12	EPA200.7		AES
pH	8.93			pH Units	1	10/19/22 14:15	ASA#9 10-3.2		AWG
SAR	0.28			No Unit	1	10/24/22 14:12	Calculation		AES
Sodium	12.6	1.00	0.079	mg/L	1	10/24/22 14:12	EPA200.7		AES

Total Metals by ICP

Barium	142	5.00	1.10	mg/kg dry	100	10/18/22 14:23	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	10/18/22 14:23	6010B		AES
Chromium	18.8	5.00	1.58	mg/kg dry	100	10/18/22 14:23	6010B		AES
Copper	7.88	5.00	2.83	mg/kg dry	100	10/18/22 14:23	6010B		AES
Lead	<10.0	10.0	4.02	mg/kg dry	100	10/18/22 14:23	6010B		AES
Nickel	8.24	5.00	2.41	mg/kg dry	100	10/18/22 14:23	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	10/18/22 14:22	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	10/18/22 14:22	6010B		AES
Zinc	36.3	10.0	2.18	mg/kg dry	100	10/18/22 14:23	6010B		AES

Total Metals by ICPMS

Arsenic	3.23	1.00	0.158	mg/kg dry	1000	10/17/22 16:57	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	10/20/22 12:22	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	10/11/22 00:34	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/11/22 00:34	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/11/22 00:34	8015B		MS

Surrogate: 1-Chlorooctane			82.9 %	45.3-161		10/11/22 00:34	8015B		MS
Surrogate: 1-Chlorooctadecane			96.1 %	46.3-178		10/11/22 00:34	8015B		MS

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Cottonwood Consulting	Project: COGCC Table 915-1	Reported:
PO Box 1653	Project Name / Number: Box Elder J#1	10/25/22 14:02
Durango CO, 81302	Project Manager: Jake Harter	

SS04

2210059-04 (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	10/11/22 15:06	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	10/11/22 15:06	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	10/11/22 15:06	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	10/11/22 15:06	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	10/11/22 15:06	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0256	mg/kg	50	10/11/22 15:06	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	10/11/22 15:06	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	10/11/22 15:06	8260B		MS
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	10/11/22 15:06	8260B		MS
Surrogate: Dibromofluoromethane			95.1 %	84.6-114		10/11/22 15:06	8260B		MS
Surrogate: Toluene-d8			99.9 %	90.4-109		10/11/22 15:06	8260B		MS
Surrogate: 4-Bromofluorobenzene			99.1 %	82.5-117		10/11/22 15:06	8260B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	10/12/22 15:11	8270C		MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	10/12/22 15:11	8270C		MS
1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	10/12/22 15:11	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	10/12/22 15:11	8270C		MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	10/12/22 15:11	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	10/12/22 15:11	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	10/12/22 15:11	8270C		MS
Pyrene*	<0.013	0.040	0.013	mg/kg	40	10/12/22 15:11	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	10/12/22 15:11	8270C		MS
Chrysene	<0.017	0.040	0.017	mg/kg	40	10/12/22 15:11	8270C		MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	10/12/22 15:11	8270C		MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	10/12/22 15:11	8270C		MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	10/12/22 15:11	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	10/12/22 15:11	8270C		MS
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	10/12/22 15:11	8270C		MS
Surrogate: Nitrobenzene-d5			65.6 %	39.6-121		10/12/22 15:11	8270C		MS

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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	Reported:
Durango CO, 81302	Project Manager: Jake Harter	10/25/22 14:02

SS04

2210059-04 (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	80.3 %	39.8-134				10/12/22 15:11	8270C		MS
Surrogate: Terphenyl-d14	84.0 %	33.3-136				10/12/22 15:11	8270C		MS

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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: 10/25/22 14:02
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SS05

2210059-05 (Soil)

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

Hexavalent Chromium	0.360	0.250	0.128	mg/kg dry	25	10/19/22 09:57	3060A/3500-Cr B		HTB
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Saturated Paste Extraction

Calcium	45.5	0.100	0.058	mg/L	1	10/24/22 14:16	EPA200.7		AES
Conductivity	810			umho/cm@25 C	1	10/19/22 14:15	ASA#9 10-3.3		AWG
Magnesium	8.34	0.100	0.065	mg/L	1	10/24/22 14:16	EPA200.7		AES
pH	7.57			pH Units	1	10/19/22 14:15	ASA#9 10-3.2		AWG
SAR	0.31			No Unit	1	10/24/22 14:16	Calculation		AES
Sodium	8.58	1.00	0.079	mg/L	1	10/24/22 14:16	EPA200.7		AES

Total Metals by ICP

Barium	119	5.00	1.10	mg/kg dry	100	10/18/22 14:27	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	10/18/22 14:27	6010B		AES
Chromium	16.0	5.00	1.58	mg/kg dry	100	10/18/22 14:27	6010B		AES
Copper	5.39	5.00	2.83	mg/kg dry	100	10/18/22 14:27	6010B		AES
Lead	<10.0	10.0	4.02	mg/kg dry	100	10/18/22 14:27	6010B		AES
Nickel	8.66	5.00	2.41	mg/kg dry	100	10/18/22 14:27	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	10/18/22 14:27	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	10/18/22 14:27	6010B		AES
Zinc	36.0	10.0	2.18	mg/kg dry	100	10/18/22 14:27	6010B		AES

Total Metals by ICPMS

Arsenic	5.52	1.00	0.158	mg/kg dry	1000	10/17/22 16:58	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	10/20/22 12:29	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	10/11/22 00:56	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/11/22 00:56	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/11/22 00:56	8015B		MS

Surrogate: 1-Chlorooctane			79.4 %	45.3-161		10/11/22 00:56	8015B		MS
Surrogate: 1-Chlorooctadecane			90.8 %	46.3-178		10/11/22 00:56	8015B		MS

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Cottonwood Consulting	Project: COGCC Table 915-1	Reported:
PO Box 1653	Project Name / Number: Box Elder J#1	10/25/22 14:02
Durango CO, 81302	Project Manager: Jake Harter	

SS05

2210059-05 (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	10/11/22 15:29	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	10/11/22 15:29	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	10/11/22 15:29	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	10/11/22 15:29	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	10/11/22 15:29	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0256	mg/kg	50	10/11/22 15:29	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	10/11/22 15:29	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	10/11/22 15:29	8260B		MS
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	10/11/22 15:29	8260B		MS
Surrogate: Dibromofluoromethane			94.8 %	84.6-114		10/11/22 15:29	8260B		MS
Surrogate: Toluene-d8			100 %	90.4-109		10/11/22 15:29	8260B		MS
Surrogate: 4-Bromofluorobenzene			100 %	82.5-117		10/11/22 15:29	8260B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	10/12/22 15:40	8270C		MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	10/12/22 15:40	8270C		MS
1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	10/12/22 15:40	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	10/12/22 15:40	8270C		MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	10/12/22 15:40	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	10/12/22 15:40	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	10/12/22 15:40	8270C		MS
Pyrene*	<0.013	0.040	0.013	mg/kg	40	10/12/22 15:40	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	10/12/22 15:40	8270C		MS
Chrysene	<0.017	0.040	0.017	mg/kg	40	10/12/22 15:40	8270C		MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	10/12/22 15:40	8270C		MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	10/12/22 15:40	8270C		MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	10/12/22 15:40	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	10/12/22 15:40	8270C		MS
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	10/12/22 15:40	8270C		MS
Surrogate: Nitrobenzene-d5			70.0 %	39.6-121		10/12/22 15:40	8270C		MS

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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	Reported:
Durango CO, 81302	Project Manager: Jake Harter	10/25/22 14:02

SS05

2210059-05 (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	87.0 %	39.8-134				10/12/22 15:40	8270C		MS
Surrogate: Terphenyl-d14	87.1 %	33.3-136				10/12/22 15:40	8270C		MS

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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: 10/25/22 14:02
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SS06

2210059-06 (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	10/19/22 09:57	3060A/3500-Cr B		HTB
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Saturated Paste Extraction

Calcium	78.0	0.100	0.058	mg/L	1	10/24/22 14:18	EPA200.7		AES
Conductivity	566			umho/cm@25 C	1	10/19/22 14:15	ASA#9 10-3.3		AWG
Magnesium	13.1	0.100	0.065	mg/L	1	10/24/22 14:18	EPA200.7		AES
pH	7.45			pH Units	1	10/19/22 14:15	ASA#9 10-3.2		AWG
SAR	0.17			No Unit	1	10/24/22 14:18	Calculation		AES
Sodium	6.16	1.00	0.079	mg/L	1	10/24/22 14:18	EPA200.7		AES

Total Metals by ICP

Barium	86.0	5.00	1.10	mg/kg dry	100	10/18/22 14:31	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	10/18/22 14:31	6010B		AES
Chromium	10.7	5.00	1.58	mg/kg dry	100	10/18/22 14:31	6010B		AES
Copper	<5.00	5.00	2.83	mg/kg dry	100	10/18/22 14:31	6010B		AES
Lead	<10.0	10.0	4.02	mg/kg dry	100	10/18/22 14:31	6010B		AES
Nickel	5.22	5.00	2.41	mg/kg dry	100	10/18/22 14:31	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	10/18/22 14:31	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	10/18/22 14:31	6010B		AES
Zinc	27.7	10.0	2.18	mg/kg dry	100	10/18/22 14:31	6010B		AES

Total Metals by ICPMS

Arsenic	2.77	1.00	0.158	mg/kg dry	1000	10/17/22 17:00	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	10/20/22 12:31	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	10/11/22 01:17	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	10/11/22 01:17	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/11/22 01:17	8015B		MS

Surrogate: 1-Chlorooctane			80.5 %	45.3-161		10/11/22 01:17	8015B		MS
Surrogate: 1-Chlorooctadecane			91.6 %	46.3-178		10/11/22 01:17	8015B		MS

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Box Elder J#1	Reported:
Durango CO, 81302	Project Manager: Jake Harter	10/25/22 14:02

SS06

2210059-06 (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	10/11/22 15:51	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	10/11/22 15:51	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	10/11/22 15:51	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	10/11/22 15:51	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	10/11/22 15:51	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0256	mg/kg	50	10/11/22 15:51	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	10/11/22 15:51	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	10/11/22 15:51	8260B		MS
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	10/11/22 15:51	8260B		MS
Surrogate: Dibromofluoromethane			94.4 %	84.6-114		10/11/22 15:51	8260B		MS
Surrogate: Toluene-d8			100 %	90.4-109		10/11/22 15:51	8260B		MS
Surrogate: 4-Bromofluorobenzene			99.8 %	82.5-117		10/11/22 15:51	8260B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	10/12/22 16:10	8270C		MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	10/12/22 16:10	8270C		MS
1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	10/12/22 16:10	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	10/12/22 16:10	8270C		MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	10/12/22 16:10	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	10/12/22 16:10	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	10/12/22 16:10	8270C		MS
Pyrene*	<0.013	0.040	0.013	mg/kg	40	10/12/22 16:10	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	10/12/22 16:10	8270C		MS
Chrysene	<0.017	0.040	0.017	mg/kg	40	10/12/22 16:10	8270C		MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	10/12/22 16:10	8270C		MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	10/12/22 16:10	8270C		MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	10/12/22 16:10	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	10/12/22 16:10	8270C		MS
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	10/12/22 16:10	8270C		MS
Surrogate: Nitrobenzene-d5			73.8 %	39.6-121		10/12/22 16:10	8270C		MS

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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	Reported:
Durango CO, 81302	Project Manager: Jake Harter	10/25/22 14:02

SS06

2210059-06 (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	94.2 %	39.8-134				10/12/22 16:10	8270C		MS
Surrogate: Terphenyl-dl4	88.4 %	33.3-136				10/12/22 16:10	8270C		MS

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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: 10/25/22 14:02
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SS07

2210059-07 (Soil)

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

Hexavalent Chromium	0.670	0.250	0.128	mg/kg dry	25	10/19/22 09:57	3060A/3500-Cr B		HTB
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Saturated Paste Extraction

Calcium	321	0.500	0.289	mg/L	5	10/24/22 14:25	EPA200.7		AES
Conductivity	2080			umho/cm@25 C	1	10/19/22 14:15	ASA#9 10-3.3		AWG
Magnesium	40.3	0.500	0.327	mg/L	5	10/24/22 14:25	EPA200.7		AES
pH	6.46			pH Units	1	10/19/22 14:15	ASA#9 10-3.2		AWG
SAR	0.37			No Unit	1	10/24/22 14:25	Calculation		AES
Sodium	26.1	5.00	0.396	mg/L	5	10/24/22 14:25	EPA200.7		AES

Total Metals by ICP

Barium	54.9	5.00	1.10	mg/kg dry	100	10/18/22 14:36	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	10/18/22 14:36	6010B		AES
Chromium	6.99	5.00	1.58	mg/kg dry	100	10/18/22 14:36	6010B		AES
Copper	<5.00	5.00	2.83	mg/kg dry	100	10/18/22 14:36	6010B		AES
Lead	<10.0	10.0	4.02	mg/kg dry	100	10/18/22 14:36	6010B		AES
Nickel	<5.00	5.00	2.41	mg/kg dry	100	10/18/22 14:36	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	10/18/22 14:35	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	10/18/22 14:35	6010B		AES
Zinc	20.2	10.0	2.18	mg/kg dry	100	10/18/22 14:36	6010B		AES

Total Metals by ICPMS

Arsenic	2.13	1.00	0.158	mg/kg dry	1000	10/17/22 17:01	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	10/20/22 12:34	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	10/11/22 01:38	8015B		MS
DRO >C10-C28*	68.9	10.0	4.26	mg/kg	1	10/11/22 01:38	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/11/22 01:38	8015B		MS

Surrogate: 1-Chlorooctane			88.2 %	45.3-161		10/11/22 01:38	8015B		MS
Surrogate: 1-Chlorooctadecane			97.0 %	46.3-178		10/11/22 01:38	8015B		MS

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Cottonwood Consulting	Project: COGCC Table 915-1	Reported:
PO Box 1653	Project Name / Number: Box Elder J#1	10/25/22 14:02
Durango CO, 81302	Project Manager: Jake Harter	

SS07

2210059-07 (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	10/11/22 16:14	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	10/11/22 16:14	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	10/11/22 16:14	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	10/11/22 16:14	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	10/11/22 16:14	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0256	mg/kg	50	10/11/22 16:14	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	10/11/22 16:14	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	10/11/22 16:14	8260B		MS
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	10/11/22 16:14	8260B		MS
Surrogate: Dibromofluoromethane			96.1 %	84.6-114		10/11/22 16:14	8260B		MS
Surrogate: Toluene-d8			100 %	90.4-109		10/11/22 16:14	8260B		MS
Surrogate: 4-Bromofluorobenzene			99.4 %	82.5-117		10/11/22 16:14	8260B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	10/12/22 16:40	8270C		MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	10/12/22 16:40	8270C		MS
1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	10/12/22 16:40	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	10/12/22 16:40	8270C		MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	10/12/22 16:40	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	10/12/22 16:40	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	10/12/22 16:40	8270C		MS
Pyrene*	<0.013	0.040	0.013	mg/kg	40	10/12/22 16:40	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	10/12/22 16:40	8270C		MS
Chrysene	<0.017	0.040	0.017	mg/kg	40	10/12/22 16:40	8270C		MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	10/12/22 16:40	8270C		MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	10/12/22 16:40	8270C		MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	10/12/22 16:40	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	10/12/22 16:40	8270C		MS
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	10/12/22 16:40	8270C		MS
Surrogate: Nitrobenzene-d5			70.9 %	39.6-121		10/12/22 16:40	8270C		MS

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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	Reported:
Durango CO, 81302	Project Manager: Jake Harter	10/25/22 14:02

SS07

2210059-07 (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	91.7 %	39.8-134				10/12/22 16:40	8270C		MS
Surrogate: Terphenyl-d14	90.6 %	33.3-136				10/12/22 16:40	8270C		MS

Green Analytical Laboratories

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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: 10/25/22 14:02
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SS08

2210059-08 (Soil)

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

Hexavalent Chromium	0.298	0.250	0.128	mg/kg dry	25	10/19/22 09:57	3060A/3500-Cr B		HTB
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Saturated Paste Extraction

Calcium	46.8	0.100	0.058	mg/L	1	10/24/22 14:27	EPA200.7		AES
Conductivity	339			umho/cm@25 C	1	10/19/22 14:15	ASA#9 10-3.3		AWG
Magnesium	8.16	0.100	0.065	mg/L	1	10/24/22 14:28	EPA200.7		AES
pH	7.19			pH Units	1	10/19/22 14:15	ASA#9 10-3.2		AWG
SAR	0.24			No Unit	1	10/24/22 14:27	Calculation		AES
Sodium	6.81	1.00	0.079	mg/L	1	10/24/22 14:27	EPA200.7		AES

Total Metals by ICP

Barium	68.7	5.00	1.10	mg/kg dry	100	10/18/22 14:38	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	10/18/22 14:38	6010B		AES
Chromium	9.08	5.00	1.58	mg/kg dry	100	10/18/22 14:38	6010B		AES
Copper	<5.00	5.00	2.83	mg/kg dry	100	10/18/22 14:38	6010B		AES
Lead	<10.0	10.0	4.02	mg/kg dry	100	10/18/22 14:38	6010B		AES
Nickel	<5.00	5.00	2.41	mg/kg dry	100	10/18/22 14:38	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	10/18/22 14:37	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	10/18/22 14:37	6010B		AES
Zinc	24.5	10.0	2.18	mg/kg dry	100	10/18/22 14:38	6010B		AES

Total Metals by ICPMS

Arsenic	2.55	1.00	0.158	mg/kg dry	1000	10/17/22 17:03	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	10/20/22 12:36	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	10/11/22 01:58	8015B		MS
DRO >C10-C28*	20.2	10.0	4.26	mg/kg	1	10/11/22 01:58	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	10/11/22 01:58	8015B		MS

Surrogate: 1-Chlorooctane			84.5 %	45.3-161		10/11/22 01:58	8015B		MS
Surrogate: 1-Chlorooctadecane			100 %	46.3-178		10/11/22 01:58	8015B		MS

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Box Elder J#1	Reported:
Durango CO, 81302	Project Manager: Jake Harter	10/25/22 14:02

SS08

2210059-08 (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	10/11/22 16:37	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	10/11/22 16:37	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	10/11/22 16:37	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	10/11/22 16:37	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	10/11/22 16:37	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0256	mg/kg	50	10/11/22 16:37	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	10/11/22 16:37	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	10/11/22 16:37	8260B		MS
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	10/11/22 16:37	8260B		MS
Surrogate: Dibromofluoromethane			97.6 %	84.6-114		10/11/22 16:37	8260B		MS
Surrogate: Toluene-d8			102 %	90.4-109		10/11/22 16:37	8260B		MS
Surrogate: 4-Bromofluorobenzene			104 %	82.5-117		10/11/22 16:37	8260B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	10/12/22 17:10	8270C		MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	10/12/22 17:10	8270C		MS
1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	10/12/22 17:10	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	10/12/22 17:10	8270C		MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	10/12/22 17:10	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	10/12/22 17:10	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	10/12/22 17:10	8270C		MS
Pyrene*	<0.013	0.040	0.013	mg/kg	40	10/12/22 17:10	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	10/12/22 17:10	8270C		MS
Chrysene	<0.017	0.040	0.017	mg/kg	40	10/12/22 17:10	8270C		MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	10/12/22 17:10	8270C		MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	10/12/22 17:10	8270C		MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	10/12/22 17:10	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	10/12/22 17:10	8270C		MS
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	10/12/22 17:10	8270C		MS
Surrogate: Nitrobenzene-d5			51.7 %	39.6-121		10/12/22 17:10	8270C		MS

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Box Elder J#1	Reported:
Durango CO, 81302	Project Manager: Jake Harter	10/25/22 14:02

SS08

2210059-08 (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	74.2 %	39.8-134				10/12/22 17:10	8270C		MS
Surrogate: Terphenyl-d14	79.0 %	33.3-136				10/12/22 17:10	8270C		MS

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Box Elder J#1	Reported:
Durango CO, 81302	Project Manager: Jake Harter	10/25/22 14:02

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B222822 - General Prep - Wet Chem										
Blank (B222822-BLK1)										
Prepared: 10/18/22 Analyzed: 10/19/22										
Hexavalent Chromium	ND	0.250	mg/kg dry							
LCS (B222822-BS1)										
Prepared: 10/18/22 Analyzed: 10/19/22										
Hexavalent Chromium	2.41	0.250	mg/kg dry	2.50		96.4	85-115			

Saturated Paste Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B222884 - Paste Extract										
Blank (B222884-BLK1)										
Prepared: 10/18/22 Analyzed: 10/24/22										
Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
SAR	0.00		No Unit							
Sodium	ND	1.00	mg/L							
Reference (B222884-SRM1)										
Prepared: 10/18/22 Analyzed: 10/24/22										
SAR	10.4		No Unit	10.5		99.2	90-110			
Batch B222885 - Paste Extract										
Reference (B222885-SRM1)										
Prepared: 10/18/22 Analyzed: 10/19/22										
pH	6.82		pH Units	6.93		98.4	92-108			
Batch B222886 - Paste Extract										
Reference (B222886-SRM1)										
Prepared: 10/18/22 Analyzed: 10/19/22										
Conductivity	8420		umho/cm@25C	8340		101	90-110			

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Box Elder J#1	Reported:
Durango CO, 81302	Project Manager: Jake Harter	10/25/22 14:02

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 B222842 - EPA 3050

Blank (B222842-BLK1)

Prepared: 10/13/22 Analyzed: 10/18/22

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 (B222842-BS1)

Prepared: 10/13/22 Analyzed: 10/18/22

Barium	194	5.00	mg/kg dry	200		97.2	80-120			
Cadmium	179	5.00	mg/kg dry	200		89.7	80-120			
Chromium	197	5.00	mg/kg dry	200		98.5	80-120			
Copper	393	5.00	mg/kg dry	400		98.1	80-120			
Lead	185	10.0	mg/kg dry	200		92.3	80-120			
Nickel	182	5.00	mg/kg dry	200		91.0	80-120			
Selenium	780	20.0	mg/kg dry	800		97.5	80-120			
Silver	9.14	1.00	mg/kg dry	10.0		91.4	80-120			
Zinc	172	10.0	mg/kg dry	200		86.2	80-120			

LCS Dup (B222842-BSD1)

Prepared: 10/13/22 Analyzed: 10/18/22

Barium	191	5.00	mg/kg dry	200		95.3	80-120	1.92	20	
Cadmium	176	5.00	mg/kg dry	200		87.9	80-120	2.06	20	
Chromium	193	5.00	mg/kg dry	200		96.4	80-120	2.13	20	
Copper	395	5.00	mg/kg dry	400		98.7	80-120	0.591	20	
Lead	182	10.0	mg/kg dry	200		91.2	80-120	1.24	20	
Nickel	180	5.00	mg/kg dry	200		90.2	80-120	0.929	20	
Selenium	774	20.0	mg/kg dry	800		96.7	80-120	0.765	20	
Silver	9.12	1.00	mg/kg dry	10.0		91.2	80-120	0.192	20	
Zinc	171	10.0	mg/kg dry	200		85.3	80-120	1.10	20	

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Cottonwood Consulting	Project: COGCC Table 915-1	Reported: 10/25/22 14:02
PO Box 1653	Project Name / Number: Box Elder J#1	
Durango CO, 81302	Project Manager: Jake Harter	

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 B222843 - EPA 3050M

Blank (B222843-BLK1)

Prepared: 10/14/22 Analyzed: 10/17/22

Arsenic	ND	1.00	mg/kg dry							
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LCS (B222843-BS1)

Prepared: 10/14/22 Analyzed: 10/17/22

Arsenic	4.80	1.00	mg/kg dry	5.00		96.1	80-120			
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LCS Dup (B222843-BSD1)

Prepared: 10/14/22 Analyzed: 10/17/22

Arsenic	5.05	1.00	mg/kg dry	5.00		101	80-120	5.05	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 B222874 - Hot Water Soluble Metals Extract

Blank (B222874-BLK1)

Prepared: 10/17/22 Analyzed: 10/18/22

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	Reported:
Durango CO, 81302	Project Manager: Jake Harter	10/25/22 14:02

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 2100748 - General Prep - Organics

Blank (2100748-BLK1)

Prepared: 10/07/22 Analyzed: 10/10/22

Surrogate: 1-Chlorooctadecane	45.7		mg/kg	50.0		91.4	46.3-178			
Surrogate: 1-Chlorooctane	38.6		mg/kg	50.0		77.3	45.3-161			
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 (2100748-BS1)

Prepared: 10/07/22 Analyzed: 10/10/22

Surrogate: 1-Chlorooctadecane	56.1		mg/kg	50.0		112	46.3-178			
Surrogate: 1-Chlorooctane	44.6		mg/kg	50.0		89.1	45.3-161			
DRO >C10-C28	221	10.0	mg/kg	200		110	74.9-127			
GRO C6-C10	216	10.0	mg/kg	200		108	76.8-124			
Total TPH C6-C28	436	10.0	mg/kg	400		109	77.5-124			

LCS Dup (2100748-BSD1)

Prepared: 10/07/22 Analyzed: 10/10/22

Surrogate: 1-Chlorooctadecane	63.0		mg/kg	50.0		126	46.3-178			
Surrogate: 1-Chlorooctane	49.5		mg/kg	50.0		98.9	45.3-161			
DRO >C10-C28	221	10.0	mg/kg	200		111	74.9-127	0.278	18.6	
GRO C6-C10	216	10.0	mg/kg	200		108	76.8-124	0.0431	17.2	
Total TPH C6-C28	437	10.0	mg/kg	400		109	77.5-124	0.162	17.6	

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Cottonwood Consulting	Project: COGCC Table 915-1	Reported:
PO Box 1653	Project Name / Number: Box Elder J#1	10/25/22 14:02
Durango CO, 81302	Project Manager: Jake Harter	

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 2100732 - Volatiles

Blank (2100732-BLK1)

Prepared: 10/07/22 Analyzed: 10/11/22

1,2,4-Trimethylbenzene	ND	0.0250	mg/kg							
1,3,5-Trimethylbenzene	ND	0.0250	mg/kg							
<i>Surrogate: 4-Bromofluorobenzene</i>	1.23		mg/kg	1.25		98.5	82.5-117			
Benzene	ND	0.0250	mg/kg							
<i>Surrogate: Dibromofluoromethane</i>	1.21		mg/kg	1.25		96.4	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							
<i>Surrogate: Toluene-d8</i>	1.23		mg/kg	1.25		98.6	90.4-109			
Total Xylenes	ND	0.0750	mg/kg							

LCS (2100732-BS1)

Prepared: 10/07/22 Analyzed: 10/11/22

1,2,4-Trimethylbenzene	0.538	0.0250	mg/kg	0.500		108	62.4-140			
1,3,5-Trimethylbenzene	0.539	0.0250	mg/kg	0.500		108	64.4-138			
<i>Surrogate: 4-Bromofluorobenzene</i>	1.29		mg/kg	1.25		103	82.5-117			
Benzene	0.473	0.0250	mg/kg	0.500		94.6	73-130			
<i>Surrogate: Dibromofluoromethane</i>	1.22		mg/kg	1.25		97.7	84.6-114			
Ethylbenzene	0.494	0.0250	mg/kg	0.500		98.9	75.4-127			
m+p - Xylene	0.978	0.0500	mg/kg	1.00		97.8	71.8-133			
Naphthalene	0.572	0.0250	mg/kg	0.500		114	28.7-158			
o-Xylene	0.499	0.0250	mg/kg	0.500		99.7	78.6-125			
Toluene	0.472	0.0250	mg/kg	0.500		94.3	79-122			
<i>Surrogate: Toluene-d8</i>	1.22		mg/kg	1.25		97.8	90.4-109			
Total Xylenes	1.48	0.0750	mg/kg	1.50		98.5	74.6-130			

LCS Dup (2100732-BSD1)

Prepared: 10/07/22 Analyzed: 10/11/22

1,2,4-Trimethylbenzene	0.505	0.0250	mg/kg	0.500		101	62.4-140	6.32	38.2	
1,3,5-Trimethylbenzene	0.500	0.0250	mg/kg	0.500		100	64.4-138	7.59	39.1	
<i>Surrogate: 4-Bromofluorobenzene</i>	1.28		mg/kg	1.25		103	82.5-117			
Benzene	0.471	0.0250	mg/kg	0.500		94.2	73-130	0.409	17.1	
<i>Surrogate: Dibromofluoromethane</i>	1.21		mg/kg	1.25		97.1	84.6-114			
Ethylbenzene	0.490	0.0250	mg/kg	0.500		98.1	75.4-127	0.800	16.5	
m+p - Xylene	0.965	0.0500	mg/kg	1.00		96.5	71.8-133	1.35	19.1	
Naphthalene	0.534	0.0250	mg/kg	0.500		107	28.7-158	6.91	64	
o-Xylene	0.489	0.0250	mg/kg	0.500		97.8	78.6-125	1.91	13.2	
Toluene	0.472	0.0250	mg/kg	0.500		94.3	79-122	0.0106	18.3	

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Box Elder J#1	Reported:
Durango CO, 81302	Project Manager: Jake Harter	10/25/22 14:02

**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 2100732 - Volatiles (Continued)

LCS Dup (2100732-BSD1) (Continued)

Prepared: 10/07/22 Analyzed: 10/11/22

Surrogate: Toluene-d8	1.23		mg/kg	1.25		98.8	90.4-109			
Total Xylenes	1.45	0.0750	mg/kg	1.50		96.9	74.6-130	1.54	16.5	

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Cottonwood Consulting	Project: COGCC Table 915-1	Reported:
PO Box 1653	Project Name / Number: Box Elder J#1	10/25/22 14:02
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 2100733 - SW846-3510

Blank (2100733-BLK1)

Prepared: 10/07/22 Analyzed: 10/12/22

1-Methylnaphthalene	ND	0.040	mg/kg							
<i>Surrogate: 2-Fluorobiphenyl</i>	1.64		mg/kg	2.00		82.0	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>	1.35		mg/kg	2.00		67.6	39.6-121			
Pyrene	ND	0.040	mg/kg							
<i>Surrogate: Terphenyl-d14</i>	1.53		mg/kg	2.00		76.5	33.3-136			

LCS (2100733-BS1)

Prepared: 10/07/22 Analyzed: 10/12/22

1-Methylnaphthalene	0.324	0.040	mg/kg	0.400		81.1	57.6-108			
<i>Surrogate: 2-Fluorobiphenyl</i>	1.47		mg/kg	2.00		73.7	39.8-134			
2-Methylnaphthalene	0.328	0.040	mg/kg	0.400		81.9	59-106			
Acenaphthene	0.329	0.040	mg/kg	0.400		82.4	60.9-105			
Acenaphthylene	0.325	0.040	mg/kg	0.400		81.2	57.4-107			
Anthracene	0.334	0.040	mg/kg	0.400		83.4	60.8-105			
Benzo[a]anthracene	0.356	0.040	mg/kg	0.400		89.0	56.1-121			
Benzo[a]pyrene	0.565	0.040	mg/kg	0.400		141	56.7-115			BS1
Benzo[b]flouranthene	0.307	0.040	mg/kg	0.400		76.7	45.4-128			
Benzo[g,h,i]perylene	0.346	0.040	mg/kg	0.400		86.6	56.5-107			
Benzo[k]flouranthene	0.326	0.040	mg/kg	0.400		81.6	49.6-119			
Carbazole	0.340	0.040	mg/kg	0.400		85.1	59.7-107			
Chrysene	0.346	0.040	mg/kg	0.400		86.5	12.2-190			
Dibenz[a,h]anthracene	0.323	0.040	mg/kg	0.400		80.7	59.1-111			
Fluoranthene	0.344	0.040	mg/kg	0.400		86.0	60.6-111			
Fluorene	0.333	0.040	mg/kg	0.400		83.2	59.3-108			
Indeno[1,2,3-cd]pyrene	0.336	0.040	mg/kg	0.400		84.1	53.4-116			
Naphthalene	0.316	0.040	mg/kg	0.400		78.9	56.5-106			

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Box Elder J#1	Reported:
Durango CO, 81302	Project Manager: Jake Harter	10/25/22 14:02

**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 2100733 - SW846-3510 (Continued)

LCS (2100733-BS1) (Continued)

Prepared: 10/07/22 Analyzed: 10/12/22

<i>Surrogate: Nitrobenzene-d5</i>	1.33		mg/kg	2.00		66.4	39.6-121			
Phenanthrene	0.338	0.040	mg/kg	0.400		84.4	59.9-107			
Pyrene	0.345	0.040	mg/kg	0.400		86.3	51.5-122			
<i>Surrogate: Terphenyl-d14</i>	1.48		mg/kg	2.00		74.1	33.3-136			

LCS Dup (2100733-BS1)

Prepared: 10/07/22 Analyzed: 10/12/22

1-Methylnaphthalene	0.337	0.040	mg/kg	0.400		84.2	57.6-108	3.72	6.22	
<i>Surrogate: 2-Fluorobiphenyl</i>	1.53		mg/kg	2.00		76.6	39.8-134			
2-Methylnaphthalene	0.346	0.040	mg/kg	0.400		86.6	59-106	5.58	6.23	
Acenaphthene	0.337	0.040	mg/kg	0.400		84.1	60.9-105	2.14	8.18	
Acenaphthylene	0.335	0.040	mg/kg	0.400		83.7	57.4-107	2.98	5	
Anthracene	0.333	0.040	mg/kg	0.400		83.3	60.8-105	0.108	3.68	
Benzo[a]anthracene	0.355	0.040	mg/kg	0.400		88.7	56.1-121	0.408	9.01	
Benzo[a]pyrene	0.565	0.040	mg/kg	0.400		141	56.7-115	0.106	4.92	BS1
Benzo[b]fluoranthene	0.311	0.040	mg/kg	0.400		77.8	45.4-128	1.39	7.63	
Benzo[g,h,i]perylene	0.340	0.040	mg/kg	0.400		85.1	56.5-107	1.72	12.5	
Benzo[k]fluoranthene	0.326	0.040	mg/kg	0.400		81.5	49.6-119	0.196	10.6	
Carbazole	0.347	0.040	mg/kg	0.400		86.9	59.7-107	2.03	8.65	
Chrysene	0.345	0.040	mg/kg	0.400		86.4	12.2-190	0.133	21.8	
Dibenz[a,h]anthracene	0.326	0.040	mg/kg	0.400		81.6	59.1-111	1.08	11.6	
Fluoranthene	0.338	0.040	mg/kg	0.400		84.5	60.6-111	1.66	7.54	
Fluorene	0.336	0.040	mg/kg	0.400		84.0	59.3-108	0.987	5.49	
Indeno[1,2,3-cd]pyrene	0.332	0.040	mg/kg	0.400		83.0	53.4-116	1.23	22.3	
Naphthalene	0.331	0.040	mg/kg	0.400		82.8	56.5-106	4.75	4.56	QR-04
<i>Surrogate: Nitrobenzene-d5</i>	1.33		mg/kg	2.00		66.7	39.6-121			
Phenanthrene	0.343	0.040	mg/kg	0.400		85.8	59.9-107	1.69	5.21	
Pyrene	0.345	0.040	mg/kg	0.400		86.1	51.5-122	0.174	10.6	
<i>Surrogate: Terphenyl-d14</i>	1.50		mg/kg	2.00		74.8	33.3-136			

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Box Elder J#1	Reported:
Durango CO, 81302	Project Manager: Jake Harter	10/25/22 14:02

Notes and Definitions

- 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).
- BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
- 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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Jeremy D Allen, Laboratory Director

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 Fax: (970) 247-4227 75 Suttle St Durango, CO 81303

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST.

Company Name: Cottonwood Consulting LLC
 Project Manager: Jacob Harter
 Address: PO Box 1653
 City: Durango State: CO Zip: 81302
 Phone #: 970-946-3761 Email: jharter@cottonwoodconsulting.com
 Additional Report To:
 Project Name: Box Elder J#1
 Project Number:
 Sampler Name (Print): Jacob Harter Emma Miller

FOR LAB USE ONLY

Collected	Matrix (check one)	# of containers
	GROUNDWATER	
	SURFACEWATER	
	WASTEWATER	
	PRODUCEDWATER	
	SOIL	
	OTHER :	
	No preservation (general)	
	HNO ³	
	HCl	
	H ₂ SO ₄	
	Other:	
	Other:	

Lab I.D.	Sample Name or Location	Date	Time	Matrix (check one)	# of containers	ANALYSIS REQUEST
2110-059		10/5/22	0855	SOIL	3	X
01	SS01		0900	SOIL	3	X
02	SS02		0905	SOIL	3	X
03	SS03		0910	SOIL	3	X
04	SS04		0915	SOIL	3	X
05	SS05		0920	SOIL	3	X
06	SS06		0925	SOIL	3	X
07	SS07		0930	SOIL	3	X
08	SS08			SOIL	3	X

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Relinquished By: [Signature] Date: 10/6/22 Time: 0940
 Received By: [Signature] Date: [] Time: []
 Relinquished By: [] Date: [] Time: []
 Received By: [] Date: [] Time: []

Delivered By: (Circle One) Temperature at receipt: 4.1°C CHECKED BY: VSW
 Sampler: UPS - FedEx - Kangaroo - Other: Laser #2 on ice

ADDITIONAL REMARKS: Cottonwood EDD Yes No Report to State? (Circle)

* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.