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12 August 2021

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 07/30/21 08:15. The data to follow was performed, in whole or in part, by a subcontract laboratory 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 For Debbie Zufelt
Reports Manager

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

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: T104704514-21-12

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: T104704398-21-14



Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) #6-A
Project Manager: Jake Harter

Reported:
08/12/21 17:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS01	2107313-01	Solid	07/28/21 11:25	07/30/21 08:15	
SS02	2107313-02	Solid	07/28/21 16:50	07/30/21 08:15	

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Jeremy D Allen For Debbie Zufelt, Reports Manager

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) #6-A
Project Manager: Jake Harter

Reported:
08/12/21 17:15

SS01**2107313-01 (Soil)**

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

Calcium	69.6	0.100	0.058	mg/L	1	08/10/21 17:12	EPA200.7		AES
Conductivity	610			umho/cm @ 25.0°C	1	08/10/21 11:30	ASA#9 10-3.3		VJW
Magnesium	12.7	0.100	0.065	mg/L	1	08/10/21 17:12	EPA200.7		AES
pH	6.95			pH Units	1	08/10/21 08:30	ASA#9 10-3.2		VJW
SAR	0.73			No Unit	1	08/10/21 17:12	Calculation		AES
Sodium	25.2	1.00	0.079	mg/L	1	08/10/21 17:12	EPA200.7		AES

Total Metals by ICP

Barium	150	5.00	0.390	mg/kg dry	100	08/06/21 14:20	6010B		AES
Cadmium	<5.00	5.00	1.10	mg/kg dry	100	08/06/21 14:20	6010B		AES
Chromium	25.8	5.00	0.400	mg/kg dry	100	08/06/21 14:20	6010B		AES
Copper	35.3	5.00	2.39	mg/kg dry	100	08/06/21 14:20	6010B		AES
Lead	105	10.0	0.906	mg/kg dry	100	08/06/21 14:20	6010B		AES
Nickel	14.8	5.00	0.874	mg/kg dry	100	08/06/21 14:20	6010B		AES
Selenium	<20.0	20.0	4.70	mg/kg dry	100	08/06/21 14:20	6010B		AES
Silver	<1.00	1.00	0.688	mg/kg dry	100	08/06/21 14:20	6010B		AES
Zinc	91.1	10.0	1.71	mg/kg dry	100	08/06/21 14:20	6010B		AES

Total Metals by ICPMS

Arsenic	1.50	1.00	0.0950	mg/kg dry	1000	08/10/21 17:18	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	08/11/21 11:34	EPA200.7		AES
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Subcontracted -- Cardinal Laboratories**Petroleum Hydrocarbons by GC FID****S-06**

GRO C6-C10*	793	500	312	mg/kg	50	08/05/21 01:41	8015B		MS
DRO >C10-C28*	14100	500	213	mg/kg	50	08/05/21 01:41	8015B		MS
EXT DRO >C28-C36	4780	500	213	mg/kg	50	08/05/21 01:41	8015B		MS

Surrogate: 1-Chlorooctane	94.7 %	44.3-133	08/05/21 01:41	8015B	MS
Surrogate: 1-Chlorooctadecane	353 %	38.9-142	08/05/21 01:41	8015B	MS

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Project: COGCC Table 915-1
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Project Manager: Jake Harter

Reported:
08/12/21 17:15

SS01

2107313-01 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

VOLATILES BY GC/MS

Benzene*	<0.0250	0.0250	0.00885	mg/kg	50	08/03/21 16:52	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	08/03/21 16:52	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	08/03/21 16:52	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	08/03/21 16:52	8260B		MS
o-Xylene*	0.431	0.0250	0.00700	mg/kg	50	08/03/21 16:52	8260B		MS
Total Xylenes*	0.431	0.0250	0.0250	mg/kg	50	08/03/21 16:52	8260B		MS
1,3,5-Trimethylbenzene	2.18	0.0250	0.00450	mg/kg	50	08/03/21 16:52	8260B		MS
1,2,4-Trimethylbenzene	0.150	0.0250	0.00650	mg/kg	50	08/03/21 16:52	8260B		MS
Naphthalene*	1.44	0.0250	0.00500	mg/kg	50	08/03/21 16:52	8260B		MS

Surrogate: Dibromofluoromethane 100 % 84.6-114 08/03/21 16:52 8260B MS

Surrogate: Toluene-d8 115 % 90.4-109 08/03/21 16:52 8260B S-04 MS

Surrogate: 4-Bromofluorobenzene 248 % 82.5-117 08/03/21 16:52 8260B S-04 MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<1.53	4.00	1.53	mg/kg	4000	08/10/21 13:50	8270C		MS
2-Methylnaphthalene*	<2.26	4.00	2.26	mg/kg	4000	08/10/21 13:50	8270C		MS
1-Methylnaphthalene	3.91	4.00	1.61	mg/kg	4000	08/10/21 13:50	8270C	J	MS
Acenaphthylene*	<1.96	4.00	1.96	mg/kg	4000	08/10/21 13:50	8270C		MS
Acenaphthene*	<2.35	4.00	2.35	mg/kg	4000	08/10/21 13:50	8270C		MS
Fluorene*	3.20	4.00	1.42	mg/kg	4000	08/10/21 13:50	8270C	J	MS
Phenanthrene*	<2.14	4.00	2.14	mg/kg	4000	08/10/21 13:50	8270C		MS
Anthracene*	<1.72	4.00	1.72	mg/kg	4000	08/10/21 13:50	8270C		MS
Carbazole*	<1.90	4.00	1.90	mg/kg	4000	08/10/21 13:50	8270C		MS
Fluoranthene*	<1.85	4.00	1.85	mg/kg	4000	08/10/21 13:50	8270C		MS
Pyrene*	3.91	4.00	1.32	mg/kg	4000	08/10/21 13:50	8270C	J	MS
Benzo[a]anthracene*	<2.30	4.00	2.30	mg/kg	4000	08/10/21 13:50	8270C		MS
Chrysene*	4.89	4.00	1.72	mg/kg	4000	08/10/21 13:50	8270C		MS
Benzo[b]fluoranthene*	<1.92	4.00	1.92	mg/kg	4000	08/10/21 13:50	8270C		MS
Benzo[k]fluoranthene*	<1.57	4.00	1.57	mg/kg	4000	08/10/21 13:50	8270C		MS
Benzo[a]pyrene*	<1.82	4.00	1.82	mg/kg	4000	08/10/21 13:50	8270C		MS
Indeno[1,2,3-cd]pyrene*	<1.68	4.00	1.68	mg/kg	4000	08/10/21 13:50	8270C		MS

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Jeremy D Allen For Debbie Zufelt, Reports Manager

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) #6-A
Project Manager: Jake Harter

Reported:
08/12/21 17:15

SS01

2107313-01 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Polynuclear Aromatic Compounds by GC/MS

Dibenz[a,h]anthracene*	<1.86	4.00	1.86	mg/kg	4000	08/10/21 13:50	8270C		MS
Benzo[g,h,i]perylene*	<1.86	4.00	1.86	mg/kg	4000	08/10/21 13:50	8270C		MS
Surrogate: Nitrobenzene-d5			162 %	39.6-121		08/10/21 13:50	8270C	S-06	MS
Surrogate: 2-Fluorobiphenyl			99.9 %	39.8-134		08/10/21 13:50	8270C		MS
Surrogate: Terphenyl-d14			138 %	33.3-136		08/10/21 13:50	8270C	S-06	MS

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) #6-A
Project Manager: Jake Harter

Reported:
08/12/21 17:15

SS02**2107313-02 (Soil)**

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

Calcium	42.7	0.100	0.058	mg/L	1	08/10/21 17:14	EPA200.7		AES
Conductivity	305			umho/cm @ 25.0°C	1	08/10/21 11:30	ASA#9 10-3.3		VJW
Magnesium	12.0	0.100	0.065	mg/L	1	08/10/21 17:14	EPA200.7		AES
pH	7.14			pH Units	1	08/10/21 08:30	ASA#9 10-3.2		VJW
SAR	0.15			No Unit	1	08/10/21 17:14	Calculation		AES
Sodium	4.22	1.00	0.079	mg/L	1	08/10/21 17:14	EPA200.7		AES

Total Metals by ICP

Barium	96.1	5.00	0.390	mg/kg dry	100	08/06/21 14:35	6010B		AES
Cadmium	<5.00	5.00	1.10	mg/kg dry	100	08/06/21 14:35	6010B		AES
Chromium	34.2	5.00	0.400	mg/kg dry	100	08/06/21 14:35	6010B		AES
Copper	37.2	5.00	2.39	mg/kg dry	100	08/06/21 14:35	6010B		AES
Lead	<10.0	10.0	0.906	mg/kg dry	100	08/06/21 14:35	6010B		AES
Nickel	16.0	5.00	0.874	mg/kg dry	100	08/06/21 14:35	6010B		AES
Selenium	<20.0	20.0	4.70	mg/kg dry	100	08/06/21 14:35	6010B		AES
Silver	<1.00	1.00	0.688	mg/kg dry	100	08/06/21 14:35	6010B		AES
Zinc	65.4	10.0	1.71	mg/kg dry	100	08/06/21 14:35	6010B		AES

Total Metals by ICPMS

Arsenic	1.47	1.00	0.0950	mg/kg dry	1000	08/10/21 17:28	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	08/11/21 11:36	EPA200.7		AES
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Subcontracted -- Cardinal Laboratories**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	08/04/21 20:09	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	08/04/21 20:09	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	08/04/21 20:09	8015B		MS

Surrogate: 1-Chlorooctane	71.1 %	44.3-133	08/04/21 20:09	8015B	MS
Surrogate: 1-Chlorooctadecane	67.2 %	38.9-142	08/04/21 20:09	8015B	MS

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) #6-A
Project Manager: Jake Harter

Reported:
08/12/21 17:15

SS02

2107313-02 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

VOLATILES BY GC/MS

Benzene*	<0.0250	0.0250	0.00885	mg/kg	50	08/03/21 17:16	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	08/03/21 17:16	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	08/03/21 17:16	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	08/03/21 17:16	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	08/03/21 17:16	8260B		MS
Total Xylenes*	<0.0250	0.0250	0.0250	mg/kg	50	08/03/21 17:16	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	08/03/21 17:16	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	08/03/21 17:16	8260B		MS
Naphthalene*	0.0256	0.0250	0.00500	mg/kg	50	08/03/21 17:16	8260B		MS

Surrogate: Dibromofluoromethane 98.6 % 84.6-114 08/03/21 17:16 8260B MS

Surrogate: Toluene-d8 103 % 90.4-109 08/03/21 17:16 8260B MS

Surrogate: 4-Bromofluorobenzene 102 % 82.5-117 08/03/21 17:16 8260B MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	08/10/21 14:19	8270C		MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	08/10/21 14:19	8270C		MS
1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	08/10/21 14:19	8270C		MS
Acenaphthylene*	<0.020	0.040	0.020	mg/kg	40	08/10/21 14:19	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	08/10/21 14:19	8270C		MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	08/10/21 14:19	8270C		MS
Phenanthrene*	<0.021	0.040	0.021	mg/kg	40	08/10/21 14:19	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	08/10/21 14:19	8270C		MS
Carbazole*	<0.019	0.040	0.019	mg/kg	40	08/10/21 14:19	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	08/10/21 14:19	8270C		MS
Pyrene*	<0.013	0.040	0.013	mg/kg	40	08/10/21 14:19	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	08/10/21 14:19	8270C		MS
Chrysene*	<0.017	0.040	0.017	mg/kg	40	08/10/21 14:19	8270C		MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	08/10/21 14:19	8270C		MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	08/10/21 14:19	8270C		MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	08/10/21 14:19	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	08/10/21 14:19	8270C		MS

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) #6-A
Project Manager: Jake Harter

Reported:
08/12/21 17:15

SS02**2107313-02 (Soil)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories**Polynuclear Aromatic Compounds by GC/MS**

Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	08/10/21 14:19	8270C		MS
Benzo[g,h,i]perylene*	<0.019	0.040	0.019	mg/kg	40	08/10/21 14:19	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			85.8 %	39.6-121		08/10/21 14:19	8270C		MS
<i>Surrogate: 2-Fluorobiphenyl</i>			85.0 %	39.8-134		08/10/21 14:19	8270C		MS
<i>Surrogate: Terphenyl-d14</i>			91.3 %	33.3-136		08/10/21 14:19	8270C		MS

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) #6-A
Project Manager: Jake Harter

Reported:
08/12/21 17:15

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 B211813 - Paste Extract

Duplicate (B211813-DUP1) Source: 2108040-02 Prepared: 08/09/21 Analyzed: 08/10/21

pH	7.29		pH Units		7.37			1.09	20	
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Reference (B211813-SRM1) Prepared: 08/09/21 Analyzed: 08/10/21

pH	8.51		pH Units	9.14		93.1	95-105			
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Batch B211814 - Paste Extract

Duplicate (B211814-DUP1) Source: 2108040-02 Prepared: 08/09/21 Analyzed: 08/10/21

Conductivity	807		umho/cm @ 25.0°C		918			12.9	20	
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Reference (B211814-SRM1) Prepared: 08/09/21 Analyzed: 08/10/21

Conductivity	8270		umho/cm @ 25.0°C	6720		123	90-110			
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Batch B211815 - Paste Extract

Blank (B211815-BLK1) Prepared: 08/09/21 Analyzed: 08/10/21

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

Duplicate (B211815-DUP1) Source: 2108040-02 Prepared: 08/09/21 Analyzed: 08/10/21

Calcium	62.9	0.500	mg/L		75.3			17.9	20	
Magnesium	12.4	0.500	mg/L		15.3			20.5	20	R1
SAR	2.41		No Unit		2.54			5.25	20	
Sodium	80.0	5.00	mg/L		92.6			14.6	20	

Reference (B211815-SRM1) Prepared: 08/09/21 Analyzed: 08/10/21

SAR	7.65		No Unit	7.50		102	90-110			
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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) #6-A
Project Manager: Jake Harter

Reported:
08/12/21 17:15

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 B211785 - EPA 3050

Blank (B211785-BLK1)

Prepared: 08/05/21 Analyzed: 08/06/21

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 (B211785-BS1)

Prepared: 08/05/21 Analyzed: 08/06/21

Barium	186	5.00	mg/kg dry	200	93.0	80-120
Cadmium	175	5.00	mg/kg dry	200	87.6	80-120
Chromium	186	5.00	mg/kg dry	200	93.1	80-120
Copper	391	5.00	mg/kg dry	400	97.6	80-120
Lead	182	10.0	mg/kg dry	200	91.2	80-120
Nickel	181	5.00	mg/kg dry	200	90.6	80-120
Selenium	790	20.0	mg/kg dry	800	98.8	80-120
Silver	9.34	1.00	mg/kg dry	10.0	93.4	80-120
Zinc	171	10.0	mg/kg dry	200	85.6	80-120

LCS Dup (B211785-BSD1)

Prepared: 08/05/21 Analyzed: 08/06/21

Barium	185	5.00	mg/kg dry	200	92.6	80-120	0.437	20
Cadmium	173	5.00	mg/kg dry	200	86.7	80-120	0.949	20
Chromium	185	5.00	mg/kg dry	200	92.7	80-120	0.430	20
Copper	388	5.00	mg/kg dry	400	96.9	80-120	0.719	20
Lead	183	10.0	mg/kg dry	200	91.4	80-120	0.239	20
Nickel	181	5.00	mg/kg dry	200	90.6	80-120	0.0434	20
Selenium	789	20.0	mg/kg dry	800	98.7	80-120	0.153	20
Silver	9.48	1.00	mg/kg dry	10.0	94.8	80-120	1.52	20
Zinc	171	10.0	mg/kg dry	200	85.7	80-120	0.135	20

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Cottonwood Consulting
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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) #6-A
Project Manager: Jake Harter

Reported:
08/12/21 17:15

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 B211787 - EPA 3050M

Blank (B211787-BLK1)

Prepared: 08/05/21 Analyzed: 08/10/21

Arsenic	ND	0.100	mg/kg dry							
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LCS (B211787-BS1)

Prepared: 08/05/21 Analyzed: 08/10/21

Arsenic	4.99	0.100	mg/kg dry	5.00		99.8	80-120			
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LCS Dup (B211787-BSD1)

Prepared: 08/05/21 Analyzed: 08/10/21

Arsenic	4.73	0.100	mg/kg dry	5.00		94.7	80-120	5.25	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 B211830 - Hot Water Soluble Metals Extract

Blank (B211830-BLK1)

Prepared: 08/10/21 Analyzed: 08/11/21

Boron	ND	1.20	mg/L							
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Duplicate (B211830-DUP1)

Source: 2107310-07 Prepared: 08/10/21 Analyzed: 08/11/21

Boron	0.649	1.20	mg/L		0.774			17.6	200	
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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) #6-A
Project Manager: Jake Harter

Reported:
08/12/21 17:15

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 1080408 - General Prep - Organics

Blank (1080408-BLK1)

Prepared & Analyzed: 08/04/21

Surrogate: 1-Chlorooctadecane	39.8		mg/kg	50.0		79.6	38.9-142			
Surrogate: 1-Chlorooctane	41.1		mg/kg	50.0		82.1	44.3-133			
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 (1080408-BS1)

Prepared & Analyzed: 08/04/21

Surrogate: 1-Chlorooctadecane	42.0		mg/kg	50.0		83.9	38.9-142			
Surrogate: 1-Chlorooctane	43.5		mg/kg	50.0		87.1	44.3-133			
DRO >C10-C28	208	10.0	mg/kg	200		104	79.3-136			
GRO C6-C10	218	10.0	mg/kg	200		109	83.4-129			
Total TPH C6-C28	426	10.0	mg/kg	400		107	85.3-130			

LCS Dup (1080408-BSD1)

Prepared & Analyzed: 08/04/21

Surrogate: 1-Chlorooctadecane	41.7		mg/kg	50.0		83.5	38.9-142			
Surrogate: 1-Chlorooctane	42.8		mg/kg	50.0		85.6	44.3-133			
DRO >C10-C28	208	10.0	mg/kg	200		104	79.3-136	0.181	12.1	
GRO C6-C10	214	10.0	mg/kg	200		107	83.4-129	1.85	12.6	
Total TPH C6-C28	422	10.0	mg/kg	400		105	85.3-130	1.03	11.6	

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) #6-A
Project Manager: Jake Harter

Reported:
08/12/21 17:15

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 1080214 - Volatiles**Blank (1080214-BLK1)**

Prepared: 08/02/21 Analyzed: 08/03/21

1,2,4-Trimethylbenzene	ND	0.0250	mg/kg							
1,3,5-Trimethylbenzene	ND	0.0250	mg/kg							
Surrogate: 4-Bromofluorobenzene	1.18		mg/kg	1.25		94.5	82.5-117			
Benzene	ND	0.0250	mg/kg							
Surrogate: Dibromofluoromethane	1.26		mg/kg	1.25		101	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	1.25		mg/kg	1.25		100	90.4-109			
Total Xylenes	ND	0.0250	mg/kg							

LCS (1080214-BS1)

Prepared: 08/02/21 Analyzed: 08/03/21

1,2,4-Trimethylbenzene	0.518	0.0250	mg/kg	0.500		104	62.4-140			
1,3,5-Trimethylbenzene	0.521	0.0250	mg/kg	0.500		104	64.4-138			
Surrogate: 4-Bromofluorobenzene	1.25		mg/kg	1.25		100	82.5-117			
Benzene	0.511	0.0250	mg/kg	0.500		102	73-130			
Surrogate: Dibromofluoromethane	1.44		mg/kg	1.25		115	84.6-114			S-05
Ethylbenzene	0.521	0.0250	mg/kg	0.500		104	75.4-127			
m+p - Xylene	1.03	0.0500	mg/kg	1.00		103	71.8-133			
Naphthalene	0.502	0.0250	mg/kg	0.500		100	28.7-158			
o-Xylene	0.504	0.0250	mg/kg	0.500		101	78.6-125			
Toluene	0.520	0.0250	mg/kg	0.500		104	79-122			
Surrogate: Toluene-d8	1.26		mg/kg	1.25		101	90.4-109			
Total Xylenes	1.54	0.0250	mg/kg	1.50		103	74.6-130			

LCS Dup (1080214-BSD1)

Prepared: 08/02/21 Analyzed: 08/03/21

1,2,4-Trimethylbenzene	0.499	0.0250	mg/kg	0.500		99.8	62.4-140	3.72	38.2	
1,3,5-Trimethylbenzene	0.487	0.0250	mg/kg	0.500		97.5	64.4-138	6.71	39.1	
Surrogate: 4-Bromofluorobenzene	1.24		mg/kg	1.25		99.3	82.5-117			
Benzene	0.496	0.0250	mg/kg	0.500		99.2	73-130	2.96	17.1	
Surrogate: Dibromofluoromethane	1.25		mg/kg	1.25		99.8	84.6-114			
Ethylbenzene	0.499	0.0250	mg/kg	0.500		99.8	75.4-127	4.32	16.5	
m+p - Xylene	0.980	0.0500	mg/kg	1.00		98.0	71.8-133	5.46	19.1	
Naphthalene	0.452	0.0250	mg/kg	0.500		90.4	28.7-158	10.5	64	
o-Xylene	0.486	0.0250	mg/kg	0.500		97.2	78.6-125	3.73	13.2	
Toluene	0.486	0.0250	mg/kg	0.500		97.2	79-122	6.80	18.3	

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Cottonwood Consulting
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Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) #6-A
Project Manager: Jake Harter

Reported:
08/12/21 17:15

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 1080214 - Volatiles (Continued)

LCS Dup (1080214-BSD1) (Continued)

Prepared: 08/02/21 Analyzed: 08/03/21

Surrogate: Toluene-d8	1.27		mg/kg	1.25		102	90.4-109			
Total Xylenes	1.47	0.0250	mg/kg	1.50		97.7	74.6-130	4.89	16.5	

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) #6-A
Project Manager: Jake Harter

Reported:
08/12/21 17:15

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 1072919 - SW846-3510

Blank (1072919-BLK1)

Prepared: 07/29/21 Analyzed: 08/03/21

1-Methylnaphthalene	ND	0.040	mg/kg							
Surrogate: 2-Fluorobiphenyl	1.44		mg/kg	2.00		71.9	39.8-134			
2-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthene	ND	0.040	mg/kg							
Acenaphthylene	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[g,h,i]perylene	ND	0.040	mg/kg							
Benzo[k]fluoranthene	ND	0.040	mg/kg							
Carbazole	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	1.30		mg/kg	2.00		65.1	39.6-121			
Phenanthrene	ND	0.040	mg/kg							
Pyrene	ND	0.040	mg/kg							
Surrogate: Terphenyl-d14	1.74		mg/kg	2.00		86.9	33.3-136			

LCS (1072919-BS1)

Prepared: 07/29/21 Analyzed: 08/03/21

1-Methylnaphthalene	0.308	0.040	mg/kg	0.400		77.0	57.6-108			
Surrogate: 2-Fluorobiphenyl	1.18		mg/kg	2.00		59.2	39.8-134			
2-Methylnaphthalene	0.316	0.040	mg/kg	0.400		79.1	59-106			
Acenaphthene	0.371	0.040	mg/kg	0.400		92.7	60.9-105			
Acenaphthylene	0.347	0.040	mg/kg	0.400		86.7	57.4-107			
Anthracene	0.349	0.040	mg/kg	0.400		87.2	60.8-105			
Benzo[a]anthracene	0.356	0.040	mg/kg	0.400		89.0	56.1-121			
Benzo[a]pyrene	0.309	0.040	mg/kg	0.400		77.3	56.7-115			
Benzo[b]fluoranthene	0.364	0.040	mg/kg	0.400		91.0	45.4-128			
Benzo[g,h,i]perylene	0.318	0.040	mg/kg	0.400		79.6	56.5-107			
Benzo[k]fluoranthene	0.361	0.040	mg/kg	0.400		90.1	49.6-119			
Carbazole	0.348	0.040	mg/kg	0.400		87.1	59.7-107			
Chrysene	0.339	0.040	mg/kg	0.400		84.8	12.2-190			
Dibenz[a,h]anthracene	0.292	0.040	mg/kg	0.400		72.9	59.1-111			
Fluoranthene	0.340	0.040	mg/kg	0.400		85.0	60.6-111			

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PO Box 1653
Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) #6-A
Project Manager: Jake Harter

Reported:
08/12/21 17:15

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 1072919 - SW846-3510 (Continued)

LCS (1072919-BS1) (Continued)

Prepared: 07/29/21 Analyzed: 08/03/21

Fluorene	0.366	0.040	mg/kg	0.400		91.4	59.3-108			
Indeno[1,2,3-cd]pyrene	0.306	0.040	mg/kg	0.400		76.5	53.4-116			
Naphthalene	0.302	0.040	mg/kg	0.400		75.5	56.5-106			
Surrogate: Nitrobenzene-d5	0.824		mg/kg	2.00		41.2	39.6-121			
Phenanthrene	0.365	0.040	mg/kg	0.400		91.2	59.9-107			
Pyrene	0.348	0.040	mg/kg	0.400		86.9	51.5-122			
Surrogate: Terphenyl-d14	1.57		mg/kg	2.00		78.3	33.3-136			

LCS Dup (1072919-BSD1)

Prepared: 07/29/21 Analyzed: 08/03/21

1-Methylnaphthalene	0.332	0.040	mg/kg	0.400		83.0	57.6-108	7.60	6.22	QR-04
Surrogate: 2-Fluorobiphenyl	1.20		mg/kg	2.00		60.1	39.8-134			
2-Methylnaphthalene	0.327	0.040	mg/kg	0.400		81.8	59-106	3.35	6.23	
Acenaphthene	0.356	0.040	mg/kg	0.400		88.9	60.9-105	4.18	8.18	
Acenaphthylene	0.362	0.040	mg/kg	0.400		90.4	57.4-107	4.22	5	
Anthracene	0.355	0.040	mg/kg	0.400		88.8	60.8-105	1.81	3.68	
Benzo[a]anthracene	0.355	0.040	mg/kg	0.400		88.8	56.1-121	0.234	9.01	
Benzo[a]pyrene	0.312	0.040	mg/kg	0.400		77.9	56.7-115	0.773	4.92	
Benzo[b]fluoranthene	0.360	0.040	mg/kg	0.400		89.9	45.4-128	1.21	7.63	
Benzo[g,h,i]perylene	0.333	0.040	mg/kg	0.400		83.2	56.5-107	4.49	12.5	
Benzo[k]fluoranthene	0.366	0.040	mg/kg	0.400		91.6	49.6-119	1.58	10.6	
Carbazole	0.348	0.040	mg/kg	0.400		87.0	59.7-107	0.0919	8.65	
Chrysene	0.350	0.040	mg/kg	0.400		87.5	12.2-190	3.09	21.8	
Dibenz[a,h]anthracene	0.304	0.040	mg/kg	0.400		76.1	59.1-111	4.22	11.6	
Fluoranthene	0.336	0.040	mg/kg	0.400		83.9	60.6-111	1.28	7.54	
Fluorene	0.341	0.040	mg/kg	0.400		85.2	59.3-108	7.00	5.49	QR-04
Indeno[1,2,3-cd]pyrene	0.314	0.040	mg/kg	0.400		78.6	53.4-116	2.73	22.3	
Naphthalene	0.300	0.040	mg/kg	0.400		75.0	56.5-106	0.781	4.56	
Surrogate: Nitrobenzene-d5	0.869		mg/kg	2.00		43.4	39.6-121			
Phenanthrene	0.342	0.040	mg/kg	0.400		85.4	59.9-107	6.58	5.21	QR-04
Pyrene	0.351	0.040	mg/kg	0.400		87.8	51.5-122	0.970	10.6	
Surrogate: Terphenyl-d14	1.48		mg/kg	2.00		73.8	33.3-136			

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) #6-A
Project Manager: Jake Harter

Reported:
08/12/21 17:15

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
R1	Duplicate sample RPD exceeded laboratory acceptance criteria. Sample(s) may be difficult to homogenize.
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

Green Analytical Laboratories

Jeremy D Allen For Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



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75 Suttle St Durango, CO 81303

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Cottonwood Consulting

Project Manager: Jacob Harter

Address: PO Box 1653

City: Durango

Phone #: (970) 946-3761

Additional Report To:

Project Name: Margaret Spaulding (CWP) #6-A

Project Number:

Sampler Name (Print): Jacob Harter / Kyle Sesses

FOR LAB USE ONLY

P.O. #:
Bill to (if different):

Company:

State: CO Zip: 81302

City:

Address:

State: Zip:

Phone #:

Fax or Email:

ANALYSIS REQUEST

Lab I.D.

Sample Name or Location

2107313-01 SS01

-02 SS02

Date: 7/28/21 Time: 11:25

7/28/21 1650

Collected

Matrix (check one)

of containers

GROUNDWATER
SURFACEWATER
WASTEWATER
PRODUCEDWATER
SOIL
OTHER :
No preservation (general)
HNO₃
HCl
H₂SO₄
Other:
Other:

COGCC Table 915

PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by GAL within 30 days after completion. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date: 7/30/21 Time: 0815

Received By:

ADDITIONAL REMARKS:

Report to State? (Circle)

Relinquished By:

Date:

Received By:

ADDITIONAL REMARKS:

Yes

No

Relinquished By:

Date:

Received By:

ADDITIONAL REMARKS:

Delivered By: (Circle One)

Sampler: UPS - FedEx - Kangaroo - Other:

Temperature at receipt:

CHECKED BY:

3.6°C

DS

#3 Laser On Ice