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27 September 2021

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

Enclosed are the results of analyses for samples received by the laboratory on 09/03/21 11:15. 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 black ink that reads 'Debbie Zufelt'.

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) 4-B
Project Manager: Kyle Siesser

Reported:
09/27/21 12:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS01	2109053-01	Solid	09/01/21 08:00	09/03/21 11:15	
SS02	2109053-02	Solid	09/01/21 07:50	09/03/21 11:15	

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Debbie Zufelt, Reports Manager

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: Margaret Spaulding (OWP) 4-B Project Manager: Kyle Siesser	Reported: 09/27/21 12:58
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SS01

2109053-01 (Soil)

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

Hexavalent Chromium	<0.250	0.250	0.0543	mg/kg	25	09/23/21 10:00	3060A/3500-Cr D		JDA
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Saturated Paste Extraction

Calcium	41.4	0.100	0.058	mg/L	1	09/23/21 13:07	EPA200.7		AES
Conductivity	902			umho/cm @ 25.0°C	1	09/22/21 14:55	ASA#9 10-3.3		VJW
Magnesium	7.03	0.100	0.065	mg/L	1	09/23/21 13:07	EPA200.7		AES
pH	7.99			pH Units	1	09/22/21 13:00	ASA#9 10-3.2		VJW
SAR	4.50			No Unit	1	09/23/21 13:07	Calculation		AES
Sodium	119	1.00	0.079	mg/L	1	09/23/21 13:07	EPA200.7		AES

Total Metals by ICP

Barium	252	5.00	0.390	mg/kg dry	100	09/21/21 12:31	6010B		AES
Cadmium	<5.00	5.00	1.10	mg/kg dry	100	09/21/21 12:31	6010B		AES
Chromium	18.8	5.00	0.400	mg/kg dry	100	09/21/21 12:31	6010B		AES
Copper	24.7	5.00	2.39	mg/kg dry	100	09/21/21 12:31	6010B		AES
Lead	21.9	10.0	0.906	mg/kg dry	100	09/21/21 12:31	6010B		AES
Nickel	15.1	5.00	0.874	mg/kg dry	100	09/21/21 12:31	6010B		AES
Selenium	<20.0	20.0	4.70	mg/kg dry	100	09/21/21 12:31	6010B		AES
Silver	<1.00	1.00	0.688	mg/kg dry	100	09/21/21 12:31	6010B		AES
Zinc	59.7	10.0	1.71	mg/kg dry	100	09/21/21 12:31	6010B		AES

Total Metals by ICPMS

Arsenic	5.97	1.00	0.0950	mg/kg dry	1000	09/17/21 13:00	6020A		AES
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Hot Water Extractable

Boron	1.32	1.20	0.568	mg/L	4	09/16/21 18:03	EPA200.7		AES
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	830	50.0	31.2	mg/kg	5	09/10/21 15:38	8015B		MS
DRO >C10-C28*	8960	50.0	21.3	mg/kg	5	09/10/21 15:38	8015B		MS
EXT DRO >C28-C36	2150	50.0	21.3	mg/kg	5	09/10/21 15:38	8015B		MS

Surrogate: 1-Chlorooctane			214 %	44.3-133		09/10/21 15:38	8015B		MS
Surrogate: 1-Chlorooctadecane			282 %	38.9-142		09/10/21 15:38	8015B		MS

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SS01

2109053-01 (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*	<0.100	0.100	0.0354	mg/kg	200	09/10/21 13:57	8260B		MS
Toluene*	<0.100	0.100	0.0268	mg/kg	200	09/10/21 13:57	8260B		MS
Ethylbenzene*	0.517	0.100	0.0162	mg/kg	200	09/10/21 13:57	8260B		MS
m+p - Xylene*	<0.200	0.200	0.0744	mg/kg	200	09/10/21 13:57	8260B		MS
o-Xylene*	<0.100	0.100	0.0280	mg/kg	200	09/10/21 13:57	8260B		MS
Total Xylenes*	<0.300	0.300	0.100	mg/kg	200	09/10/21 13:57	8260B		MS
1,3,5-Trimethylbenzene	<0.100	0.100	0.0180	mg/kg	200	09/10/21 13:57	8260B		MS
1,2,4-Trimethylbenzene	<0.100	0.100	0.0260	mg/kg	200	09/10/21 13:57	8260B		MS
Naphthalene*	6.92	0.100	0.0200	mg/kg	200	09/10/21 13:57	8260B		MS

Surrogate: Dibromofluoromethane			106 %	84.6-114		09/10/21 13:57	8260B		MS
Surrogate: Toluene-d8			96.2 %	90.4-109		09/10/21 13:57	8260B		MS
Surrogate: 4-Bromofluorobenzene			177 %	82.5-117		09/10/21 13:57	8260B	S-04	MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	3.27	0.400	0.153	mg/kg	400	09/16/21 15:44	8270C		MS
2-Methylnaphthalene*	13.5	0.400	0.226	mg/kg	400	09/16/21 15:44	8270C		MS
1-Methylnaphthalene	11.3	0.400	0.161	mg/kg	400	09/16/21 15:44	8270C		MS
Acenaphthylene*	<0.196	0.400	0.196	mg/kg	400	09/16/21 15:44	8270C		MS
Acenaphthene*	0.392	0.400	0.235	mg/kg	400	09/16/21 15:44	8270C	J	MS
Fluorene*	2.55	0.400	0.142	mg/kg	400	09/16/21 15:44	8270C		MS
Phenanthrene*	5.64	0.400	0.214	mg/kg	400	09/16/21 15:44	8270C		MS
Anthracene*	0.751	0.400	0.172	mg/kg	400	09/16/21 15:44	8270C		MS
Carbazole*	<0.190	0.400	0.190	mg/kg	400	09/16/21 15:44	8270C		MS
Fluoranthene*	0.336	0.400	0.185	mg/kg	400	09/16/21 15:44	8270C	J	MS
Pyrene*	0.912	0.400	0.132	mg/kg	400	09/16/21 15:44	8270C		MS
Benzo[a]anthracene*	<0.230	0.400	0.230	mg/kg	400	09/16/21 15:44	8270C		MS
Chrysene*	1.27	0.400	0.172	mg/kg	400	09/16/21 15:44	8270C		MS
Benzo[b]fluoranthene*	0.282	0.400	0.192	mg/kg	400	09/16/21 15:44	8270C	J	MS
Benzo[k]fluoranthene*	<0.157	0.400	0.157	mg/kg	400	09/16/21 15:44	8270C		MS
Benzo[a]pyrene*	<0.182	0.400	0.182	mg/kg	400	09/16/21 15:44	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.168	0.400	0.168	mg/kg	400	09/16/21 15:44	8270C		MS

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Debbie Zufelt

Debbie Zufelt, Reports Manager

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: Margaret Spaulding (OWP) 4-B Project Manager: Kyle Siesser	Reported: 09/27/21 12:58
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SS01

2109053-01 (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

Dibenz[a,h]anthracene*	<0.186	0.400	0.186	mg/kg	400	09/16/21 15:44	8270C		MS
Benzo[g,h,i]perylene*	0.405	0.400	0.186	mg/kg	400	09/16/21 15:44	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			106 %	39.6-121		09/16/21 15:44	8270C		MS
<i>Surrogate: 2-Fluorobiphenyl</i>			84.6 %	39.8-134		09/16/21 15:44	8270C		MS
<i>Surrogate: Terphenyl-d14</i>			95.3 %	33.3-136		09/16/21 15:44	8270C		MS

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SS02

2109053-02 (Soil)

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

Hexavalent Chromium	<0.250	0.250	0.0543	mg/kg	25	09/23/21 10:00	3060A/3500-Cr D		JDA
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Saturated Paste Extraction

Calcium	62.5	0.100	0.058	mg/L	1	09/23/21 13:10	EPA200.7		AES
Conductivity	723			umho/cm @ 25.0°C	1	09/22/21 14:55	ASA#9 10-3.3		VJW
Magnesium	13.7	0.100	0.065	mg/L	1	09/23/21 13:11	EPA200.7		AES
pH	7.75			pH Units	1	09/22/21 13:00	ASA#9 10-3.2		VJW
SAR	1.49			No Unit	1	09/23/21 13:10	Calculation		AES
Sodium	49.9	1.00	0.079	mg/L	1	09/23/21 13:10	EPA200.7		AES

Total Metals by ICP

Barium	151	5.00	0.390	mg/kg dry	100	09/21/21 12:35	6010B		AES
Cadmium	<5.00	5.00	1.10	mg/kg dry	100	09/21/21 12:35	6010B		AES
Chromium	16.7	5.00	0.400	mg/kg dry	100	09/21/21 12:35	6010B		AES
Copper	18.1	5.00	2.39	mg/kg dry	100	09/21/21 12:35	6010B		AES
Lead	<10.0	10.0	0.906	mg/kg dry	100	09/21/21 12:35	6010B		AES
Nickel	11.5	5.00	0.874	mg/kg dry	100	09/21/21 12:35	6010B		AES
Selenium	<20.0	20.0	4.70	mg/kg dry	100	09/21/21 12:35	6010B		AES
Silver	<1.00	1.00	0.688	mg/kg dry	100	09/21/21 12:35	6010B		AES
Zinc	38.7	10.0	1.71	mg/kg dry	100	09/21/21 12:35	6010B		AES

Total Metals by ICPMS

Arsenic	4.22	1.00	0.0950	mg/kg dry	1000	09/17/21 13:03	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	09/16/21 18:05	EPA200.7		AES
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	1140	50.0	31.2	mg/kg	5	09/10/21 15:54	8015B		MS
DRO >C10-C28*	9390	50.0	21.3	mg/kg	5	09/10/21 15:54	8015B		MS
EXT DRO >C28-C36	2450	50.0	21.3	mg/kg	5	09/10/21 15:54	8015B		MS

Surrogate: 1-Chlorooctane			220 %	44.3-133		09/10/21 15:54	8015B		MS
Surrogate: 1-Chlorooctadecane			298 %	38.9-142		09/10/21 15:54	8015B		MS

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Debbie Zufelt, Reports Manager

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: Margaret Spaulding (OWP) 4-B Project Manager: Kyle Siesser	Reported: 09/27/21 12:58
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SS02

2109053-02 (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*	<0.100	0.100	0.0354	mg/kg	200	09/10/21 14:17	8260B		MS
Toluene*	<0.100	0.100	0.0268	mg/kg	200	09/10/21 14:17	8260B		MS
Ethylbenzene*	0.244	0.100	0.0162	mg/kg	200	09/10/21 14:17	8260B		MS
m+p - Xylene*	<0.200	0.200	0.0744	mg/kg	200	09/10/21 14:17	8260B		MS
o-Xylene*	<0.100	0.100	0.0280	mg/kg	200	09/10/21 14:17	8260B		MS
Total Xylenes*	<0.300	0.300	0.100	mg/kg	200	09/10/21 14:17	8260B		MS
1,3,5-Trimethylbenzene	<0.100	0.100	0.0180	mg/kg	200	09/10/21 14:17	8260B		MS
1,2,4-Trimethylbenzene	<0.100	0.100	0.0260	mg/kg	200	09/10/21 14:17	8260B		MS
Naphthalene*	3.77	0.100	0.0200	mg/kg	200	09/10/21 14:17	8260B		MS
Surrogate: Dibromofluoromethane			103 %	84.6-114		09/10/21 14:17	8260B		MS
Surrogate: Toluene-d8			104 %	90.4-109		09/10/21 14:17	8260B		MS
Surrogate: 4-Bromofluorobenzene			156 %	82.5-117		09/10/21 14:17	8260B	S-04	MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	1.74	0.400	0.153	mg/kg	400	09/16/21 16:14	8270C		MS
2-Methylnaphthalene*	10.6	0.400	0.226	mg/kg	400	09/16/21 16:14	8270C		MS
1-Methylnaphthalene	13.6	0.400	0.161	mg/kg	400	09/16/21 16:14	8270C		MS
Acenaphthylene*	<0.196	0.400	0.196	mg/kg	400	09/16/21 16:14	8270C		MS
Acenaphthene*	<0.235	0.400	0.235	mg/kg	400	09/16/21 16:14	8270C		MS
Fluorene*	3.46	0.400	0.142	mg/kg	400	09/16/21 16:14	8270C		MS
Phenanthrene*	6.93	0.400	0.214	mg/kg	400	09/16/21 16:14	8270C		MS
Anthracene*	<0.172	0.400	0.172	mg/kg	400	09/16/21 16:14	8270C		MS
Carbazole*	<0.190	0.400	0.190	mg/kg	400	09/16/21 16:14	8270C		MS
Fluoranthene*	0.399	0.400	0.185	mg/kg	400	09/16/21 16:14	8270C	J	MS
Pyrene*	1.13	0.400	0.132	mg/kg	400	09/16/21 16:14	8270C		MS
Benzo[a]anthracene*	<0.230	0.400	0.230	mg/kg	400	09/16/21 16:14	8270C		MS
Chrysene*	1.64	0.400	0.172	mg/kg	400	09/16/21 16:14	8270C		MS
Benzo[b]fluoranthene*	0.414	0.400	0.192	mg/kg	400	09/16/21 16:14	8270C		MS
Benzo[k]fluoranthene*	<0.157	0.400	0.157	mg/kg	400	09/16/21 16:14	8270C		MS
Benzo[a]pyrene*	<0.182	0.400	0.182	mg/kg	400	09/16/21 16:14	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.168	0.400	0.168	mg/kg	400	09/16/21 16:14	8270C		MS

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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SS02

2109053-02 (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

Dibenz[a,h]anthracene*	<0.186	0.400	0.186	mg/kg	400	09/16/21 16:14	8270C		MS
Benzo[g,h,i]perylene*	0.247	0.400	0.186	mg/kg	400	09/16/21 16:14	8270C	J	MS
Surrogate: Nitrobenzene-d5			119 %	39.6-121		09/16/21 16:14	8270C		MS
Surrogate: 2-Fluorobiphenyl			79.7 %	39.8-134		09/16/21 16:14	8270C		MS
Surrogate: Terphenyl-d14			83.4 %	33.3-136		09/16/21 16:14	8270C		MS

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Margaret Spaulding (OWP) 4-B	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	09/27/21 12:58

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B212204 - General Prep - Wet Chem

Blank (B212204-BLK1)		Prepared: 09/17/21 Analyzed: 09/23/21								
Hexavalent Chromium	ND	0.250	mg/kg							
LCS (B212204-BS1)		Prepared: 09/17/21 Analyzed: 09/23/21								
Hexavalent Chromium	1.98	0.250	mg/kg	2.00		98.9	85-115			

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 B212187 - Paste Extract

Blank (B212187-BLK1)		Prepared: 09/15/21 Analyzed: 09/23/21								
Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
Sodium	ND	1.00	mg/L							
Duplicate (B212187-DUP2)		Source: 2109055-06 Prepared: 09/15/21 Analyzed: 09/23/21								
Calcium	110	0.100	mg/L		120			8.82	20	
Magnesium	12.1	0.100	mg/L		14.3			16.3	20	
SAR	1.96		No Unit		1.80			8.51	20	
Sodium	81.0	1.00	mg/L		78.5			3.15	20	
Reference (B212187-SRM1)		Prepared: 09/15/21 Analyzed: 09/23/21								
SAR	7.15		No Unit	7.50		95.3	90-110			

Batch B212188 - Paste Extract

Duplicate (B212188-DUP2)		Source: 2109055-06 Prepared: 09/15/21 Analyzed: 09/22/21								
Conductivity	958		umho/cm @ 25.0°C		966			0.832	20	
Reference (B212188-SRM1)		Prepared: 09/15/21 Analyzed: 09/22/21								
Conductivity	7150		umho/cm @ 25.0°C	6720		106	90-110			

Batch B212189 - Paste Extract

Duplicate (B212189-DUP2)		Source: 2109055-06 Prepared: 09/15/21 Analyzed: 09/22/21								
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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Margaret Spaulding (OWP) 4-B	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	09/27/21 12:58

**Saturated Paste Extraction - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B212189 - Paste Extract (Continued)

Duplicate (B212189-DUP2) (Continued)

Source: 2109055-06 Prepared: 09/15/21 Analyzed: 09/22/21

pH	8.10		pH Units		8.02			0.993	20	
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Reference (B212189-SRM1)

Prepared: 09/15/21 Analyzed: 09/22/21

pH	8.63		pH Units	9.14		94.4	95-105			
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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Margaret Spaulding (OWP) 4-B	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	09/27/21 12:58

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 B212137 - EPA 3050

Blank (B212137-BLK1)

Prepared: 09/10/21 Analyzed: 09/17/21

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 (B212137-BS1)

Prepared: 09/10/21 Analyzed: 09/17/21

Barium	168	5.00	mg/kg dry	200		84.1	80-120			
Cadmium	167	5.00	mg/kg dry	200		83.4	80-120			
Chromium	170	5.00	mg/kg dry	200		85.2	80-120			
Copper	357	5.00	mg/kg dry	400		89.2	80-120			
Lead	163	10.0	mg/kg dry	200		81.6	80-120			
Nickel	167	5.00	mg/kg dry	200		83.6	80-120			
Selenium	672	20.0	mg/kg dry	800		84.0	80-120			
Silver	8.53	1.00	mg/kg dry	10.0		85.3	80-120			
Zinc	164	10.0	mg/kg dry	200		81.9	80-120			

LCS Dup (B212137-BSD1)

Prepared: 09/10/21 Analyzed: 09/17/21

Barium	169	5.00	mg/kg dry	200		84.7	80-120	0.643	20	
Cadmium	160	5.00	mg/kg dry	200		80.1	80-120	4.09	20	
Chromium	171	5.00	mg/kg dry	200		85.7	80-120	0.598	20	
Copper	359	5.00	mg/kg dry	400		89.7	80-120	0.582	20	
Lead	161	10.0	mg/kg dry	200		80.6	80-120	1.27	20	
Nickel	166	5.00	mg/kg dry	200		83.1	80-120	0.635	20	
Selenium	673	20.0	mg/kg dry	800		84.1	80-120	0.115	20	
Silver	8.70	1.00	mg/kg dry	10.0		87.0	80-120	2.00	20	
Zinc	161	10.0	mg/kg dry	200		80.7	80-120	1.46	20	

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: Margaret Spaulding (OWP) 4-B Project Manager: Kyle Siesser	Reported: 09/27/21 12:58
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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 B212141 - EPA 3050M

Blank (B212141-BLK1)

Prepared: 09/10/21 Analyzed: 09/17/21

Arsenic	ND	0.100	mg/kg dry							
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LCS (B212141-BS1)

Prepared: 09/10/21 Analyzed: 09/17/21

Arsenic	4.53	0.100	mg/kg dry	5.00		90.5	80-120			
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LCS Dup (B212141-BSD1)

Prepared: 09/10/21 Analyzed: 09/17/21

Arsenic	4.77	0.100	mg/kg dry	5.00		95.4	80-120	5.30	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 B212178 - Hot Water Soluble Metals Extract

Blank (B212178-BLK1)

Prepared: 09/15/21 Analyzed: 09/16/21

Boron	ND	1.20	mg/L							
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Duplicate (B212178-DUP1)

Source: 2109051-01 Prepared: 09/15/21 Analyzed: 09/16/21

Boron	ND	1.20	mg/L		ND				200	
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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Margaret Spaulding (OWP) 4-B	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	09/27/21 12:58

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 1091001 - General Prep - Organics

Blank (1091001-BLK1)

Prepared & Analyzed: 09/10/21

Surrogate: 1-Chlorooctadecane	56.5		mg/kg	50.0		113	38.9-142			
Surrogate: 1-Chlorooctane	55.3		mg/kg	50.0		111	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 (1091001-BS1)

Prepared & Analyzed: 09/10/21

Surrogate: 1-Chlorooctadecane	63.6		mg/kg	50.0		127	38.9-142			
Surrogate: 1-Chlorooctane	63.2		mg/kg	50.0		126	44.3-133			
DRO >C10-C28	234	10.0	mg/kg	200		117	79.3-136			
GRO C6-C10	235	10.0	mg/kg	200		118	83.4-129			
Total TPH C6-C28	469	10.0	mg/kg	400		117	85.3-130			

LCS Dup (1091001-BSD1)

Prepared & Analyzed: 09/10/21

Surrogate: 1-Chlorooctadecane	57.5		mg/kg	50.0		115	38.9-142			
Surrogate: 1-Chlorooctane	57.2		mg/kg	50.0		114	44.3-133			
DRO >C10-C28	211	10.0	mg/kg	200		106	79.3-136	10.1	12.1	
GRO C6-C10	219	10.0	mg/kg	200		109	83.4-129	7.35	12.6	
Total TPH C6-C28	430	10.0	mg/kg	400		108	85.3-130	8.72	11.6	

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Margaret Spaulding (OWP) 4-B	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	09/27/21 12:58

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 1090907 - Volatiles

Blank (1090907-BLK1)

Prepared: 09/09/21 Analyzed: 09/10/21

1,2,4-Trimethylbenzene	ND	0.0250	mg/kg							
1,3,5-Trimethylbenzene	ND	0.0250	mg/kg							
<i>Surrogate: 4-Bromofluorobenzene</i>	1.05		mg/kg	1.25		83.7	82.5-117			
Benzene	ND	0.0250	mg/kg							
<i>Surrogate: Dibromofluoromethane</i>	1.28		mg/kg	1.25		103	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>	1.24		mg/kg	1.25		98.9	90.4-109			
Total Xylenes	ND	0.0750	mg/kg							

LCS (1090907-BS1)

Prepared: 09/09/21 Analyzed: 09/10/21

1,2,4-Trimethylbenzene	0.469	0.0250	mg/kg	0.500		93.9	62.4-140			
1,3,5-Trimethylbenzene	0.473	0.0250	mg/kg	0.500		94.5	64.4-138			
<i>Surrogate: 4-Bromofluorobenzene</i>	1.17		mg/kg	1.25		93.3	82.5-117			
Benzene	0.495	0.0250	mg/kg	0.500		99.0	73-130			
<i>Surrogate: Dibromofluoromethane</i>	1.25		mg/kg	1.25		100	84.6-114			
Ethylbenzene	0.476	0.0250	mg/kg	0.500		95.3	75.4-127			
m+p - Xylene	0.966	0.0500	mg/kg	1.00		96.6	71.8-133			
Naphthalene	0.423	0.0250	mg/kg	0.500		84.7	28.7-158			
o-Xylene	0.465	0.0250	mg/kg	0.500		92.9	78.6-125			
Toluene	0.484	0.0250	mg/kg	0.500		96.9	79-122			
<i>Surrogate: Toluene-d8</i>	1.23		mg/kg	1.25		98.1	90.4-109			
Total Xylenes	1.43	0.0750	mg/kg	1.50		95.4	74.6-130			

LCS Dup (1090907-BSD1)

Prepared: 09/09/21 Analyzed: 09/10/21

1,2,4-Trimethylbenzene	0.461	0.0250	mg/kg	0.500		92.3	62.4-140	1.74	38.2	
1,3,5-Trimethylbenzene	0.462	0.0250	mg/kg	0.500		92.4	64.4-138	2.23	39.1	
<i>Surrogate: 4-Bromofluorobenzene</i>	1.20		mg/kg	1.25		96.4	82.5-117			
Benzene	0.508	0.0250	mg/kg	0.500		102	73-130	2.64	17.1	
<i>Surrogate: Dibromofluoromethane</i>	1.25		mg/kg	1.25		99.8	84.6-114			
Ethylbenzene	0.482	0.0250	mg/kg	0.500		96.5	75.4-127	1.23	16.5	
m+p - Xylene	0.958	0.0500	mg/kg	1.00		95.8	71.8-133	0.859	19.1	
Naphthalene	0.406	0.0250	mg/kg	0.500		81.2	28.7-158	4.20	64	
o-Xylene	0.460	0.0250	mg/kg	0.500		92.1	78.6-125	0.936	13.2	
Toluene	0.497	0.0250	mg/kg	0.500		99.4	79-122	2.64	18.3	

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Margaret Spaulding (OWP) 4-B	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	09/27/21 12:58

**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 1090907 - Volatiles (Continued)

LCS Dup (1090907-BSD1) (Continued)

Prepared: 09/09/21 Analyzed: 09/10/21

Surrogate: Toluene-d8	1.22		mg/kg	1.25		97.4	90.4-109			
Total Xylenes	1.42	0.0750	mg/kg	1.50		94.6	74.6-130	0.884	16.5	

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Margaret Spaulding (OWP) 4-B	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	09/27/21 12:58

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 1090904 - SW846-3510

Blank (1090904-BLK1)

Prepared: 09/09/21 Analyzed: 09/16/21

1-Methylnaphthalene	ND	0.040	mg/kg							
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1.53</i>		mg/kg	<i>2.00</i>		<i>76.7</i>	<i>39.8-134</i>			
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]flouranthene	ND	0.040	mg/kg							
Benzo[g,h,i]perylene	ND	0.040	mg/kg							
Benzo[k]flouranthene	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							
<i>Surrogate: Nitrobenzene-d5</i>	<i>1.48</i>		mg/kg	<i>2.00</i>		<i>74.2</i>	<i>39.6-121</i>			
Phenanthrene	ND	0.040	mg/kg							
Pyrene	ND	0.040	mg/kg							
<i>Surrogate: Terphenyl-d14</i>	<i>1.57</i>		mg/kg	<i>2.00</i>		<i>78.3</i>	<i>33.3-136</i>			

LCS (1090904-BS1)

Prepared: 09/09/21 Analyzed: 09/16/21

1-Methylnaphthalene	0.301	0.040	mg/kg	0.400		75.2	57.6-108			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1.59</i>		mg/kg	<i>2.00</i>		<i>79.6</i>	<i>39.8-134</i>			
2-Methylnaphthalene	0.319	0.040	mg/kg	0.400		79.9	59-106			
Acenaphthene	0.326	0.040	mg/kg	0.400		81.6	60.9-105			
Acenaphthylene	0.328	0.040	mg/kg	0.400		82.1	57.4-107			
Anthracene	0.313	0.040	mg/kg	0.400		78.1	60.8-105			
Benzo[a]anthracene	0.327	0.040	mg/kg	0.400		81.8	56.1-121			
Benzo[a]pyrene	0.283	0.040	mg/kg	0.400		70.8	56.7-115			
Benzo[b]flouranthene	0.327	0.040	mg/kg	0.400		81.8	45.4-128			
Benzo[g,h,i]perylene	0.313	0.040	mg/kg	0.400		78.3	56.5-107			
Benzo[k]flouranthene	0.340	0.040	mg/kg	0.400		85.0	49.6-119			
Carbazole	0.332	0.040	mg/kg	0.400		82.9	59.7-107			
Chrysene	0.317	0.040	mg/kg	0.400		79.3	12.2-190			
Dibenz[a,h]anthracene	0.305	0.040	mg/kg	0.400		76.2	59.1-111			
Fluoranthene	0.309	0.040	mg/kg	0.400		77.2	60.6-111			

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Margaret Spaulding (OWP) 4-B	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	09/27/21 12:58

**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 1090904 - SW846-3510 (Continued)

LCS (1090904-BS1) (Continued)

Prepared: 09/09/21 Analyzed: 09/16/21

Fluorene	0.307	0.040	mg/kg	0.400		76.8	59.3-108			
Indeno[1,2,3-cd]pyrene	0.311	0.040	mg/kg	0.400		77.8	53.4-116			
Naphthalene	0.308	0.040	mg/kg	0.400		76.9	56.5-106			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1.37</i>		mg/kg	<i>2.00</i>		<i>68.5</i>	<i>39.6-121</i>			
Phenanthrene	0.320	0.040	mg/kg	0.400		79.9	59.9-107			
Pyrene	0.305	0.040	mg/kg	0.400		76.3	51.5-122			
<i>Surrogate: Terphenyl-d14</i>	<i>1.56</i>		mg/kg	<i>2.00</i>		<i>78.2</i>	<i>33.3-136</i>			

LCS Dup (1090904-BS1)

Prepared: 09/09/21 Analyzed: 09/16/21

1-Methylnaphthalene	0.302	0.040	mg/kg	0.400		75.4	57.6-108	0.236	6.22	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1.58</i>		mg/kg	<i>2.00</i>		<i>79.0</i>	<i>39.8-134</i>			
2-Methylnaphthalene	0.325	0.040	mg/kg	0.400		81.2	59-106	1.64	6.23	
Acenaphthene	0.318	0.040	mg/kg	0.400		79.6	60.9-105	2.50	8.18	
Acenaphthylene	0.321	0.040	mg/kg	0.400		80.2	57.4-107	2.29	5	
Anthracene	0.309	0.040	mg/kg	0.400		77.3	60.8-105	1.04	3.68	
Benzo[a]anthracene	0.314	0.040	mg/kg	0.400		78.6	56.1-121	3.90	9.01	
Benzo[a]pyrene	0.282	0.040	mg/kg	0.400		70.4	56.7-115	0.584	4.92	
Benzo[b]fluoranthene	0.347	0.040	mg/kg	0.400		86.8	45.4-128	5.95	7.63	
Benzo[g,h,i]perylene	0.304	0.040	mg/kg	0.400		76.0	56.5-107	2.97	12.5	
Benzo[k]fluoranthene	0.316	0.040	mg/kg	0.400		79.1	49.6-119	7.21	10.6	
Carbazole	0.324	0.040	mg/kg	0.400		81.0	59.7-107	2.36	8.65	
Chrysene	0.311	0.040	mg/kg	0.400		77.9	12.2-190	1.85	21.8	
Dibenz[a,h]anthracene	0.298	0.040	mg/kg	0.400		74.5	59.1-111	2.34	11.6	
Fluoranthene	0.304	0.040	mg/kg	0.400		76.0	60.6-111	1.65	7.54	
Fluorene	0.323	0.040	mg/kg	0.400		80.6	59.3-108	4.89	5.49	
Indeno[1,2,3-cd]pyrene	0.311	0.040	mg/kg	0.400		77.8	53.4-116	0.0353	22.3	
Naphthalene	0.310	0.040	mg/kg	0.400		77.4	56.5-106	0.667	4.56	
<i>Surrogate: Nitrobenzene-d5</i>	<i>1.47</i>		mg/kg	<i>2.00</i>		<i>73.5</i>	<i>39.6-121</i>			
Phenanthrene	0.311	0.040	mg/kg	0.400		77.7	59.9-107	2.83	5.21	
Pyrene	0.318	0.040	mg/kg	0.400		79.4	51.5-122	4.02	10.6	
<i>Surrogate: Terphenyl-d14</i>	<i>1.67</i>		mg/kg	<i>2.00</i>		<i>83.7</i>	<i>33.3-136</i>			

Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Margaret Spaulding (OWP) 4-B	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	09/27/21 12:58

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-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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

Debbie Zufelt, Reports Manager

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 75 Suttle St Durango, CO 81303

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Cottonwood Consulting LLC		P.O. #:		Bill to (if different):		ANALYSIS REQUEST													
Project Manager: Kyle Siesser		Company:																	
Address: PO Box 1653		Attn:																	
City: Durango		Address:																	
State: CO		City:																	
Zip: 81302		State:																	
Phone #: 970-764-7356		Zip:																	
Email: ksiesser@cottonwoodconsulting.com		Phone #:																	
Additional Report To:		Fax or Email:																	
Project Name: Margaret Spaulding (owp) 4-B																			
Project Number:																			
Sampler Name (Print): Emma Miller / Kyle Siesser																			
FOR LAB USE ONLY																			
Lab I.D.	Sample Name or Location	Collected		Matrix (check one)					# of containers										
		Date	Time	GROUNDWATER	SURFACEWATER	WASTEWATER	PRODUCEDWATER	SOIL	OTHER :	No preservation (general)	HNO ₃	HCl	H ₂ SO ₄	Other:	Other:				
2109-05301	SS01	9/11/21	0800					X		3									
-02	SS02	9/11/21	0750					X		3									
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: 9/13/21		Received By:		Date: 9/13/21		Time: 1115		Temperature at receipt: 5.215.1 °C		CHECKED BY:		ADDITIONAL REMARKS: #3 Laser On Ice		Report to State? (Circle)		<input type="radio"/> Yes <input checked="" type="radio"/> No	
Relinquished By:		Date:		Received By:		Date:		Time:		Temperature at receipt:		CHECKED BY:		ADDITIONAL REMARKS:		Report to State? (Circle)			
Relinquished By:		Date:		Received By:		Date:		Time:		Temperature at receipt:		CHECKED BY:		ADDITIONAL REMARKS:		Report to State? (Circle)			
Relinquished By:		Date:		Received By:		Date:		Time:		Temperature at receipt:		CHECKED BY:		ADDITIONAL REMARKS:		Report to State? (Circle)			
Delivered By: (Circle One)		UPS - FedEx - Kangaroo - Other:		Temperature at receipt:		CHECKED BY:		ADDITIONAL REMARKS:		Report to State? (Circle)									

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