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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) 3
Project Manager: Kyle Siesser

Reported:
09/27/21 12:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS01	2109051-01	Solid	08/31/21 11:20	09/03/21 11:15	
SS02	2109051-02	Solid	08/31/21 11:30	09/03/21 11:15	
SS03	2109051-03	Solid	08/31/21 11:45	09/03/21 11:15	

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: Margaret Spaulding (OWP) 3 Project Manager: Kyle Siesser	Reported: 09/27/21 12:22
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SS01

2109051-01 (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	M5	JDA
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Saturated Paste Extraction

Calcium	145	0.200	0.116	mg/L	2	09/23/21 12:49	EPA200.7		AES
Conductivity	1070			umho/cm @ 25.0°C	1	09/22/21 14:55	ASA#9 10-3.3		VJW
Magnesium	15.8	0.200	0.131	mg/L	2	09/23/21 12:49	EPA200.7		AES
pH	8.47			pH Units	1	09/22/21 13:00	ASA#9 10-3.2		VJW
SAR	1.73			No Unit	1	09/23/21 12:49	Calculation		AES
Sodium	82.1	2.00	0.159	mg/L	2	09/23/21 12:49	EPA200.7		AES

Total Metals by ICP

Barium	388	5.00	0.390	mg/kg dry	100	09/21/21 11:54	6010B		AES
Cadmium	<5.00	5.00	1.10	mg/kg dry	100	09/21/21 11:54	6010B		AES
Chromium	35.2	5.00	0.400	mg/kg dry	100	09/21/21 11:54	6010B		AES
Copper	15.2	5.00	2.39	mg/kg dry	100	09/21/21 11:54	6010B		AES
Lead	10.2	10.0	0.906	mg/kg dry	100	09/21/21 11:54	6010B		AES
Nickel	18.0	5.00	0.874	mg/kg dry	100	09/21/21 11:54	6010B		AES
Selenium	<20.0	20.0	4.70	mg/kg dry	100	09/21/21 11:54	6010B	BS1	AES
Silver	<1.00	1.00	0.688	mg/kg dry	100	09/21/21 11:54	6010B		AES
Zinc	33.3	10.0	1.71	mg/kg dry	100	09/21/21 11:54	6010B		AES

Total Metals by ICPMS

Arsenic	3.30	1.00	0.0950	mg/kg dry	1000	09/17/21 12:26	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	09/16/21 17:50	EPA200.7		AES
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<50.0	50.0	31.2	mg/kg	5	09/10/21 17:55	8015B		MS
DRO >C10-C28*	1750	50.0	21.3	mg/kg	5	09/10/21 17:55	8015B	QM-07	MS
EXT DRO >C28-C36	564	50.0	21.3	mg/kg	5	09/10/21 17:55	8015B		MS

Surrogate: 1-Chlorooctane			109 %	44.3-133		09/10/21 17:55	8015B		MS
Surrogate: 1-Chlorooctadecane			124 %	38.9-142		09/10/21 17:55	8015B		MS

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SS01

2109051-01 (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	09/09/21 18:31	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	09/09/21 18:31	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	09/09/21 18:31	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	09/09/21 18:31	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	09/09/21 18:31	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0250	mg/kg	50	09/09/21 18:31	8260B		MS
1,3,5-Trimethylbenzene	0.206	0.0250	0.00450	mg/kg	50	09/09/21 18:31	8260B		MS
1,2,4-Trimethylbenzene	0.0379	0.0250	0.00650	mg/kg	50	09/09/21 18:31	8260B		MS
Naphthalene*	0.360	0.0250	0.00500	mg/kg	50	09/09/21 18:31	8260B		MS

Surrogate: Dibromofluoromethane			101 %	84.6-114		09/09/21 18:31	8260B		MS
Surrogate: Toluene-d8			94.5 %	90.4-109		09/09/21 18:31	8260B		MS
Surrogate: 4-Bromofluorobenzene			145 %	82.5-117		09/09/21 18:31	8260B	S-04	MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	0.184	0.400	0.153	mg/kg	400	09/13/21 21:42	8270C	J	MS
2-Methylnaphthalene*	1.68	0.400	0.226	mg/kg	400	09/13/21 21:42	8270C		MS
1-Methylnaphthalene	2.56	0.400	0.161	mg/kg	400	09/13/21 21:42	8270C		MS
Acenaphthylene*	<0.196	0.400	0.196	mg/kg	400	09/13/21 21:42	8270C		MS
Acenaphthene*	0.595	0.400	0.235	mg/kg	400	09/13/21 21:42	8270C		MS
Fluorene*	0.992	0.400	0.142	mg/kg	400	09/13/21 21:42	8270C		MS
Phenanthrene*	2.40	0.400	0.214	mg/kg	400	09/13/21 21:42	8270C		MS
Anthracene*	<0.172	0.400	0.172	mg/kg	400	09/13/21 21:42	8270C		MS
Carbazole*	<0.190	0.400	0.190	mg/kg	400	09/13/21 21:42	8270C		MS
Fluoranthene*	<0.185	0.400	0.185	mg/kg	400	09/13/21 21:42	8270C		MS
Pyrene*	0.555	0.400	0.132	mg/kg	400	09/13/21 21:42	8270C		MS
Benzo[a]anthracene*	<0.230	0.400	0.230	mg/kg	400	09/13/21 21:42	8270C		MS
Chrysene*	0.631	0.400	0.172	mg/kg	400	09/13/21 21:42	8270C		MS
Benzo[b]fluoranthene*	<0.192	0.400	0.192	mg/kg	400	09/13/21 21:42	8270C		MS
Benzo[k]fluoranthene*	<0.157	0.400	0.157	mg/kg	400	09/13/21 21:42	8270C		MS
Benzo[a]pyrene*	<0.182	0.400	0.182	mg/kg	400	09/13/21 21:42	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.168	0.400	0.168	mg/kg	400	09/13/21 21:42	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) 3 Project Manager: Kyle Siesser	Reported: 09/27/21 12:22
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SS01

2109051-01 (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	09/13/21 21:42	8270C		MS
Benzo[g,h,i]perylene*	<0.186	0.400	0.186	mg/kg	400	09/13/21 21:42	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			102 %	39.6-121		09/13/21 21:42	8270C		MS
<i>Surrogate: 2-Fluorobiphenyl</i>			107 %	39.8-134		09/13/21 21:42	8270C		MS
<i>Surrogate: Terphenyl-d14</i>			111 %	33.3-136		09/13/21 21:42	8270C		MS

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SS02

2109051-02 (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	95.1	0.100	0.058	mg/L	1	09/23/21 12:53	EPA200.7		AES
Conductivity	578			umho/cm @ 25.0°C	1	09/22/21 14:55	ASA#9 10-3.3		VJW
Magnesium	9.30	0.100	0.065	mg/L	1	09/23/21 12:53	EPA200.7		AES
pH	7.03			pH Units	1	09/22/21 13:00	ASA#9 10-3.2		VJW
SAR	0.19			No Unit	1	09/23/21 12:53	Calculation		AES
Sodium	7.26	1.00	0.079	mg/L	1	09/23/21 12:53	EPA200.7		AES

Total Metals by ICP

Barium	142	5.00	0.390	mg/kg dry	100	09/21/21 12:09	6010B		AES
Cadmium	<5.00	5.00	1.10	mg/kg dry	100	09/21/21 12:09	6010B		AES
Chromium	23.2	5.00	0.400	mg/kg dry	100	09/21/21 12:09	6010B		AES
Copper	34.3	5.00	2.39	mg/kg dry	100	09/21/21 12:09	6010B		AES
Lead	16.1	10.0	0.906	mg/kg dry	100	09/21/21 12:09	6010B		AES
Nickel	14.7	5.00	0.874	mg/kg dry	100	09/21/21 12:09	6010B		AES
Selenium	<20.0	20.0	4.70	mg/kg dry	100	09/21/21 12:09	6010B		AES
Silver	<1.00	1.00	0.688	mg/kg dry	100	09/21/21 12:09	6010B		AES
Zinc	199	10.0	1.71	mg/kg dry	100	09/21/21 12:09	6010B		AES

Total Metals by ICPMS

Arsenic	6.32	1.00	0.0950	mg/kg dry	1000	09/17/21 12:29	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	09/16/21 17:54	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*	<100	100	62.5	mg/kg	10	09/10/21 18:16	8015B		MS
DRO >C10-C28*	3580	100	42.6	mg/kg	10	09/10/21 18:16	8015B		MS
EXT DRO >C28-C36	3600	100	42.6	mg/kg	10	09/10/21 18:16	8015B		MS

Surrogate: 1-Chlorooctane			118 %	44.3-133		09/10/21 18:16	8015B		MS
Surrogate: 1-Chlorooctadecane			202 %	38.9-142		09/10/21 18:16	8015B		MS

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SS02

2109051-02 (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	09/09/21 18:51	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	09/09/21 18:51	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	09/09/21 18:51	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	09/09/21 18:51	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	09/09/21 18:51	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0250	mg/kg	50	09/09/21 18:51	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	09/09/21 18:51	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	09/09/21 18:51	8260B		MS
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	09/09/21 18:51	8260B		MS
Surrogate: Dibromofluoromethane			100 %	84.6-114		09/09/21 18:51	8260B		MS
Surrogate: Toluene-d8			96.2 %	90.4-109		09/09/21 18:51	8260B		MS
Surrogate: 4-Bromofluorobenzene			93.1 %	82.5-117		09/09/21 18:51	8260B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.153	0.400	0.153	mg/kg	400	09/13/21 22:10	8270C		MS
2-Methylnaphthalene*	<0.226	0.400	0.226	mg/kg	400	09/13/21 22:10	8270C		MS
1-Methylnaphthalene	<0.161	0.400	0.161	mg/kg	400	09/13/21 22:10	8270C		MS
Acenaphthylene*	<0.196	0.400	0.196	mg/kg	400	09/13/21 22:10	8270C		MS
Acenaphthene*	<0.235	0.400	0.235	mg/kg	400	09/13/21 22:10	8270C		MS
Fluorene*	<0.142	0.400	0.142	mg/kg	400	09/13/21 22:10	8270C		MS
Phenanthrene*	<0.214	0.400	0.214	mg/kg	400	09/13/21 22:10	8270C		MS
Anthracene*	<0.172	0.400	0.172	mg/kg	400	09/13/21 22:10	8270C		MS
Carbazole*	<0.190	0.400	0.190	mg/kg	400	09/13/21 22:10	8270C		MS
Fluoranthene*	<0.185	0.400	0.185	mg/kg	400	09/13/21 22:10	8270C		MS
Pyrene*	0.228	0.400	0.132	mg/kg	400	09/13/21 22:10	8270C	J	MS
Benzo[a]anthracene*	<0.230	0.400	0.230	mg/kg	400	09/13/21 22:10	8270C		MS
Chrysene*	0.818	0.400	0.172	mg/kg	400	09/13/21 22:10	8270C		MS
Benzo[b]fluoranthene*	<0.192	0.400	0.192	mg/kg	400	09/13/21 22:10	8270C		MS
Benzo[k]fluoranthene*	<0.157	0.400	0.157	mg/kg	400	09/13/21 22:10	8270C		MS
Benzo[a]pyrene*	<0.182	0.400	0.182	mg/kg	400	09/13/21 22:10	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.168	0.400	0.168	mg/kg	400	09/13/21 22:10	8270C		MS

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Debbie Zufelt

Debbie Zufelt, Reports Manager

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SS02

2109051-02 (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	09/13/21 22:10	8270C		MS
Benzo[g,h,i]perylene*	<0.186	0.400	0.186	mg/kg	400	09/13/21 22:10	8270C		MS
Surrogate: Nitrobenzene-d5			99.8 %	39.6-121		09/13/21 22:10	8270C		MS
Surrogate: 2-Fluorobiphenyl			102 %	39.8-134		09/13/21 22:10	8270C		MS
Surrogate: Terphenyl-d14			112 %	33.3-136		09/13/21 22:10	8270C		MS

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SS03

2109051-03 (Soil)

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

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

Calcium	73.2	0.100	0.058	mg/L	1	09/23/21 12:59	EPA200.7		AES
Conductivity	524			umho/cm @ 25.0°C	1	09/22/21 14:55	ASA#9 10-3.3		VJW
Magnesium	9.27	0.100	0.065	mg/L	1	09/23/21 12:59	EPA200.7		AES
pH	7.59			pH Units	1	09/22/21 13:00	ASA#9 10-3.2		VJW
SAR	0.71			No Unit	1	09/23/21 12:59	Calculation		AES
Sodium	24.2	1.00	0.079	mg/L	1	09/23/21 12:59	EPA200.7		AES

Total Metals by ICP

Barium	251	5.00	0.390	mg/kg dry	100	09/21/21 12:13	6010B		AES
Cadmium	<5.00	5.00	1.10	mg/kg dry	100	09/21/21 12:13	6010B		AES
Chromium	16.4	5.00	0.400	mg/kg dry	100	09/21/21 12:13	6010B		AES
Copper	20.2	5.00	2.39	mg/kg dry	100	09/21/21 12:13	6010B		AES
Lead	10.5	10.0	0.906	mg/kg dry	100	09/21/21 12:13	6010B		AES
Nickel	11.2	5.00	0.874	mg/kg dry	100	09/21/21 12:13	6010B		AES
Selenium	<20.0	20.0	4.70	mg/kg dry	100	09/21/21 12:13	6010B		AES
Silver	<1.00	1.00	0.688	mg/kg dry	100	09/21/21 12:13	6010B		AES
Zinc	43.7	10.0	1.71	mg/kg dry	100	09/21/21 12:13	6010B		AES

Total Metals by ICPMS

Arsenic	3.66	1.00	0.0950	mg/kg dry	1000	09/17/21 12:39	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	09/16/21 17:55	EPA200.7		AES
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	66.8	50.0	31.2	mg/kg	5	09/10/21 18:36	8015B		MS
DRO >C10-C28*	2490	50.0	21.3	mg/kg	5	09/10/21 18:36	8015B		MS
EXT DRO >C28-C36	796	50.0	21.3	mg/kg	5	09/10/21 18:36	8015B		MS

Surrogate: 1-Chlorooctane			122 %	44.3-133		09/10/21 18:36	8015B		MS
Surrogate: 1-Chlorooctadecane			140 %	38.9-142		09/10/21 18:36	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: Margaret Spaulding (OWP) 3 Project Manager: Kyle Siesser	Reported: 09/27/21 12:22
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SS03

2109051-03 (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	09/09/21 19:11	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	09/09/21 19:11	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	09/09/21 19:11	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	09/09/21 19:11	8260B		MS
o-Xylene*	0.0334	0.0250	0.00700	mg/kg	50	09/09/21 19:11	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0250	mg/kg	50	09/09/21 19:11	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	09/09/21 19:11	8260B		MS
1,2,4-Trimethylbenzene	0.0904	0.0250	0.00650	mg/kg	50	09/09/21 19:11	8260B		MS
Naphthalene*	1.99	0.0250	0.00500	mg/kg	50	09/09/21 19:11	8260B		MS
Surrogate: Dibromofluoromethane			98.5 %	84.6-114		09/09/21 19:11	8260B		MS
Surrogate: Toluene-d8			95.7 %	90.4-109		09/09/21 19:11	8260B		MS
Surrogate: 4-Bromofluorobenzene			203 %	82.5-117		09/09/21 19:11	8260B	S-04	MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	0.822	0.400	0.153	mg/kg	400	09/13/21 22:39	8270C		MS
2-Methylnaphthalene*	2.76	0.400	0.226	mg/kg	400	09/13/21 22:39	8270C		MS
1-Methylnaphthalene	2.39	0.400	0.161	mg/kg	400	09/13/21 22:39	8270C		MS
Acenaphthylene*	<0.196	0.400	0.196	mg/kg	400	09/13/21 22:39	8270C		MS
Acenaphthene*	<0.235	0.400	0.235	mg/kg	400	09/13/21 22:39	8270C		MS
Fluorene*	0.600	0.400	0.142	mg/kg	400	09/13/21 22:39	8270C		MS
Phenanthrene*	1.33	0.400	0.214	mg/kg	400	09/13/21 22:39	8270C		MS
Anthracene*	<0.172	0.400	0.172	mg/kg	400	09/13/21 22:39	8270C		MS
Carbazole*	<0.190	0.400	0.190	mg/kg	400	09/13/21 22:39	8270C		MS
Fluoranthene*	<0.185	0.400	0.185	mg/kg	400	09/13/21 22:39	8270C		MS
Pyrene*	<0.132	0.400	0.132	mg/kg	400	09/13/21 22:39	8270C		MS
Benzo[a]anthracene*	<0.230	0.400	0.230	mg/kg	400	09/13/21 22:39	8270C		MS
Chrysene*	0.690	0.400	0.172	mg/kg	400	09/13/21 22:39	8270C		MS
Benzo[b]fluoranthene*	<0.192	0.400	0.192	mg/kg	400	09/13/21 22:39	8270C		MS
Benzo[k]fluoranthene*	<0.157	0.400	0.157	mg/kg	400	09/13/21 22:39	8270C		MS
Benzo[a]pyrene*	<0.182	0.400	0.182	mg/kg	400	09/13/21 22:39	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.168	0.400	0.168	mg/kg	400	09/13/21 22:39	8270C		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: Margaret Spaulding (OWP) 3 Project Manager: Kyle Siesser	Reported: 09/27/21 12:22
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SS03

2109051-03 (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

Dibenz[a,h]anthracene*	<0.186	0.400	0.186	mg/kg	400	09/13/21 22:39	8270C		MS
Benzo[g,h,i]perylene*	<0.186	0.400	0.186	mg/kg	400	09/13/21 22:39	8270C		MS
Surrogate: Nitrobenzene-d5			98.6 %	39.6-121		09/13/21 22:39	8270C		MS
Surrogate: 2-Fluorobiphenyl			103 %	39.8-134		09/13/21 22:39	8270C		MS
Surrogate: Terphenyl-d14			101 %	33.3-136		09/13/21 22:39	8270C		MS

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Margaret Spaulding (OWP) 3	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	09/27/21 12:22

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-DUP1)	Source: 2109051-01 Prepared: 09/15/21 Analyzed: 09/23/21									
Calcium	125	0.200	mg/L		145			15.3	20	
Magnesium	10.7	0.200	mg/L		15.8			38.0	20	R1
SAR	1.78		No Unit		1.73			2.85	20	
Sodium	77.0	2.00	mg/L		82.1			6.35	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-DUP1)	Source: 2109051-01 Prepared: 09/15/21 Analyzed: 09/22/21									
Conductivity	995		umho/cm @ 25.0°C		1070			6.98	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-DUP1)	Source: 2109051-01 Prepared: 09/15/21 Analyzed: 09/22/21									
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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: Margaret Spaulding (OWP) 3 Project Manager: Kyle Siesser	Reported: 09/27/21 12:22
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**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-DUP1) (Continued)

Source: 2109051-01 Prepared: 09/15/21 Analyzed: 09/22/21

pH	8.44		pH Units		8.47			0.355	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) 3	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	09/27/21 12:22

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) 3 Project Manager: Kyle Siesser	Reported: 09/27/21 12:22
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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) 3	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	09/27/21 12:22

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 1090906 - General Prep - Organics

Blank (1090906-BLK1)

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

Surrogate: 1-Chlorooctadecane	40.2		mg/kg	50.0		80.3	38.9-142			
Surrogate: 1-Chlorooctane	45.0		mg/kg	50.0		89.9	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 (1090906-BS1)

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

Surrogate: 1-Chlorooctadecane	40.0		mg/kg	50.0		80.0	38.9-142			
Surrogate: 1-Chlorooctane	43.9		mg/kg	50.0		87.8	44.3-133			
DRO >C10-C28	196	10.0	mg/kg	200		98.2	79.3-136			
GRO C6-C10	174	10.0	mg/kg	200		86.9	83.4-129			
Total TPH C6-C28	370	10.0	mg/kg	400		92.5	85.3-130			

LCS Dup (1090906-BSD1)

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

Surrogate: 1-Chlorooctadecane	42.9		mg/kg	50.0		85.9	38.9-142			
Surrogate: 1-Chlorooctane	46.7		mg/kg	50.0		93.5	44.3-133			
DRO >C10-C28	197	10.0	mg/kg	200		98.3	79.3-136	0.185	12.1	
GRO C6-C10	177	10.0	mg/kg	200		88.7	83.4-129	2.03	12.6	
Total TPH C6-C28	374	10.0	mg/kg	400		93.5	85.3-130	1.06	11.6	

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Cottonwood Consulting	Project: COGCC Table 915-1	Reported:
PO Box 1653	Project Name / Number: Margaret Spaulding (OWP) 3	09/27/21 12:22
Durango CO, 81302	Project Manager: Kyle Siesser	

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 1090813 - Volatiles

Blank (1090813-BLK1)

Prepared: 09/08/21 Analyzed: 09/09/21

1,2,4-Trimethylbenzene	ND	0.0250	mg/kg							
1,3,5-Trimethylbenzene	ND	0.0250	mg/kg							
<i>Surrogate: 4-Bromofluorobenzene</i>	1.11		mg/kg	1.25		89.1	82.5-117			
Benzene	ND	0.0250	mg/kg							
<i>Surrogate: Dibromofluoromethane</i>	1.29		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>	1.23		mg/kg	1.25		98.2	90.4-109			
Total Xylenes	ND	0.0750	mg/kg							

LCS (1090813-BS1)

Prepared: 09/08/21 Analyzed: 09/09/21

1,2,4-Trimethylbenzene	0.519	0.0250	mg/kg	0.500		104	62.4-140			
1,3,5-Trimethylbenzene	0.571	0.0250	mg/kg	0.500		114	64.4-138			
<i>Surrogate: 4-Bromofluorobenzene</i>	1.20		mg/kg	1.25		96.1	82.5-117			
Benzene	0.528	0.0250	mg/kg	0.500		106	73-130			
<i>Surrogate: Dibromofluoromethane</i>	1.25		mg/kg	1.25		99.7	84.6-114			
Ethylbenzene	0.511	0.0250	mg/kg	0.500		102	75.4-127			
m+p - Xylene	1.03	0.0500	mg/kg	1.00		103	71.8-133			
Naphthalene	0.485	0.0250	mg/kg	0.500		97.0	28.7-158			
o-Xylene	0.496	0.0250	mg/kg	0.500		99.2	78.6-125			
Toluene	0.510	0.0250	mg/kg	0.500		102	79-122			
<i>Surrogate: Toluene-d8</i>	1.25		mg/kg	1.25		99.6	90.4-109			
Total Xylenes	1.52	0.0750	mg/kg	1.50		102	74.6-130			

LCS Dup (1090813-BSD1)

Prepared: 09/08/21 Analyzed: 09/09/21

1,2,4-Trimethylbenzene	0.506	0.0250	mg/kg	0.500		101	62.4-140	2.44	38.2	
1,3,5-Trimethylbenzene	0.506	0.0250	mg/kg	0.500		101	64.4-138	12.0	39.1	
<i>Surrogate: 4-Bromofluorobenzene</i>	1.21		mg/kg	1.25		96.7	82.5-117			
Benzene	0.526	0.0250	mg/kg	0.500		105	73-130	0.287	17.1	
<i>Surrogate: Dibromofluoromethane</i>	1.25		mg/kg	1.25		100	84.6-114			
Ethylbenzene	0.496	0.0250	mg/kg	0.500		99.2	75.4-127	2.88	16.5	
m+p - Xylene	1.01	0.0500	mg/kg	1.00		101	71.8-133	1.63	19.1	
Naphthalene	0.463	0.0250	mg/kg	0.500		92.6	28.7-158	4.56	64	
o-Xylene	0.486	0.0250	mg/kg	0.500		97.3	78.6-125	2.02	13.2	
Toluene	0.509	0.0250	mg/kg	0.500		102	79-122	0.177	18.3	

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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) 3	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	09/27/21 12:22

**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 1090813 - Volatiles (Continued)

LCS Dup (1090813-BSD1) (Continued)

Prepared: 09/08/21 Analyzed: 09/09/21

Surrogate: Toluene-d8	1.24		mg/kg	1.25		99.4	90.4-109			
Total Xylenes	1.50	0.0750	mg/kg	1.50		99.7	74.6-130	1.75	16.5	

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Margaret Spaulding (OWP) 3	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	09/27/21 12:22

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 1090709 - SW846-3510

Blank (1090709-BLK1)

Prepared: 09/07/21 Analyzed: 09/13/21

1-Methylnaphthalene	ND	0.040	mg/kg							
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1.57</i>		mg/kg	<i>2.00</i>		<i>78.5</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>1.61</i>		mg/kg	<i>2.00</i>		<i>80.4</i>	<i>39.6-121</i>			
Phenanthrene	ND	0.040	mg/kg							
Pyrene	ND	0.040	mg/kg							
<i>Surrogate: Terphenyl-d14</i>	<i>1.79</i>		mg/kg	<i>2.00</i>		<i>89.3</i>	<i>33.3-136</i>			

LCS (1090709-BS1)

Prepared: 09/07/21 Analyzed: 09/13/21

1-Methylnaphthalene	0.333	0.040	mg/kg	0.400		83.3	57.6-108			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1.69</i>		mg/kg	<i>2.00</i>		<i>84.5</i>	<i>39.8-134</i>			
2-Methylnaphthalene	0.347	0.040	mg/kg	0.400		86.7	59-106			
Acenaphthene	0.335	0.040	mg/kg	0.400		83.6	60.9-105			
Acenaphthylene	0.360	0.040	mg/kg	0.400		89.9	57.4-107			
Anthracene	0.330	0.040	mg/kg	0.400		82.5	60.8-105			
Benzo[a]anthracene	0.343	0.040	mg/kg	0.400		85.7	56.1-121			
Benzo[a]pyrene	0.302	0.040	mg/kg	0.400		75.6	56.7-115			
Benzo[b]flouranthene	0.353	0.040	mg/kg	0.400		88.2	45.4-128			
Benzo[g,h,i]perylene	0.333	0.040	mg/kg	0.400		83.3	56.5-107			
Benzo[k]flouranthene	0.350	0.040	mg/kg	0.400		87.6	49.6-119			
Carbazole	0.337	0.040	mg/kg	0.400		84.3	59.7-107			
Chrysene	0.341	0.040	mg/kg	0.400		85.4	12.2-190			
Dibenz[a,h]anthracene	0.323	0.040	mg/kg	0.400		80.7	59.1-111			
Fluoranthene	0.312	0.040	mg/kg	0.400		78.0	60.6-111			

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Debbie Zufelt, Reports Manager

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Margaret Spaulding (OWP) 3	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	09/27/21 12:22

**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 1090709 - SW846-3510 (Continued)

LCS (1090709-BS1) (Continued)

Prepared: 09/07/21 Analyzed: 09/13/21

Fluorene	0.339	0.040	mg/kg	0.400		84.8	59.3-108			
Indeno[1,2,3-cd]pyrene	0.329	0.040	mg/kg	0.400		82.3	53.4-116			
Naphthalene	0.350	0.040	mg/kg	0.400		87.6	56.5-106			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1.67</i>		mg/kg	<i>2.00</i>		<i>83.7</i>	<i>39.6-121</i>			
Phenanthrene	0.336	0.040	mg/kg	0.400		83.9	59.9-107			
Pyrene	0.372	0.040	mg/kg	0.400		93.1	51.5-122			
<i>Surrogate: Terphenyl-d14</i>	<i>1.82</i>		mg/kg	<i>2.00</i>		<i>91.2</i>	<i>33.3-136</i>			

LCS Dup (1090709-BS1)

Prepared: 09/07/21 Analyzed: 09/13/21

1-Methylnaphthalene	0.332	0.040	mg/kg	0.400		83.0	57.6-108	0.358	6.22	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1.67</i>		mg/kg	<i>2.00</i>		<i>83.6</i>	<i>39.8-134</i>			
2-Methylnaphthalene	0.343	0.040	mg/kg	0.400		85.8	59-106	1.10	6.23	
Acenaphthene	0.345	0.040	mg/kg	0.400		86.3	60.9-105	3.07	8.18	
Acenaphthylene	0.353	0.040	mg/kg	0.400		88.2	57.4-107	1.87	5	
Anthracene	0.334	0.040	mg/kg	0.400		83.5	60.8-105	1.31	3.68	
Benzo[a]anthracene	0.342	0.040	mg/kg	0.400		85.4	56.1-121	0.313	9.01	
Benzo[a]pyrene	0.297	0.040	mg/kg	0.400		74.2	56.7-115	1.90	4.92	
Benzo[b]fluoranthene	0.343	0.040	mg/kg	0.400		85.7	45.4-128	2.88	7.63	
Benzo[g,h,i]perylene	0.334	0.040	mg/kg	0.400		83.5	56.5-107	0.246	12.5	
Benzo[k]fluoranthene	0.347	0.040	mg/kg	0.400		86.7	49.6-119	1.04	10.6	
Carbazole	0.344	0.040	mg/kg	0.400		86.0	59.7-107	2.03	8.65	
Chrysene	0.335	0.040	mg/kg	0.400		83.7	12.2-190	2.02	21.8	
Dibenz[a,h]anthracene	0.313	0.040	mg/kg	0.400		78.2	59.1-111	3.21	11.6	
Fluoranthene	0.319	0.040	mg/kg	0.400		79.6	60.6-111	2.08	7.54	
Fluorene	0.334	0.040	mg/kg	0.400		83.6	59.3-108	1.49	5.49	
Indeno[1,2,3-cd]pyrene	0.331	0.040	mg/kg	0.400		82.8	53.4-116	0.627	22.3	
Naphthalene	0.349	0.040	mg/kg	0.400		87.2	56.5-106	0.386	4.56	
<i>Surrogate: Nitrobenzene-d5</i>	<i>1.70</i>		mg/kg	<i>2.00</i>		<i>84.8</i>	<i>39.6-121</i>			
Phenanthrene	0.335	0.040	mg/kg	0.400		83.7	59.9-107	0.242	5.21	
Pyrene	0.344	0.040	mg/kg	0.400		86.1	51.5-122	7.79	10.6	
<i>Surrogate: Terphenyl-d14</i>	<i>1.67</i>		mg/kg	<i>2.00</i>		<i>83.5</i>	<i>33.3-136</i>			

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 3
Project Manager: Kyle Siesser

Reported:
09/27/21 12:22

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.
- R1 Duplicate sample RPD exceeded laboratory acceptance criteria. Sample(s) may be difficult to homogenize.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- M5 Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference in sample.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- BS1 Laboratory control sample 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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