



75 Suttle Street
Durango, CO 81303
970.247.4220 Phone
970.247.4227 Fax
www.greenanalytical.com

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



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 5
Project Manager: Kyle Siesser

Reported:
09/27/21 13:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS01	2109054-01	Solid	08/31/21 17:20	09/03/21 11:15	
SS02	2109054-02	Solid	08/31/21 17:10	09/03/21 11:15	
SS03	2109054-03	Solid	08/31/21 17:05	09/03/21 11:15	

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Debbie Zufelt, Reports Manager

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 5
Project Manager: Kyle Siesser

Reported:
09/27/21 13:12

SS01

2109054-01 (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	28.1	0.200	0.116	mg/L	2	09/23/21 13:13	EPA200.7		AES
Conductivity	1130			umho/cm @ 25.0°C	1	09/22/21 14:55	ASA#9 10-3.3		VJW
Magnesium	5.51	0.200	0.131	mg/L	2	09/23/21 13:13	EPA200.7		AES
pH	8.23			pH Units	1	09/22/21 13:00	ASA#9 10-3.2		VJW
SAR	8.99			No Unit	1	09/23/21 13:13	Calculation		AES
Sodium	199	2.00	0.159	mg/L	2	09/23/21 13:13	EPA200.7		AES

Total Metals by ICP

Barium	416	5.00	0.390	mg/kg dry	100	09/21/21 12:39	6010B		AES
Cadmium	<5.00	5.00	1.10	mg/kg dry	100	09/21/21 12:39	6010B		AES
Chromium	16.7	5.00	0.400	mg/kg dry	100	09/21/21 12:39	6010B		AES
Copper	36.6	5.00	2.39	mg/kg dry	100	09/21/21 12:39	6010B		AES
Lead	60.0	10.0	0.906	mg/kg dry	100	09/21/21 12:39	6010B		AES
Nickel	11.6	5.00	0.874	mg/kg dry	100	09/21/21 12:39	6010B		AES
Selenium	<20.0	20.0	4.70	mg/kg dry	100	09/21/21 12:39	6010B		AES
Silver	<1.00	1.00	0.688	mg/kg dry	100	09/21/21 12:39	6010B		AES
Zinc	71.8	10.0	1.71	mg/kg dry	100	09/21/21 12:39	6010B		AES

Total Metals by ICPMS

Arsenic	8.26	1.00	0.0950	mg/kg dry	1000	09/17/21 13:07	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	09/16/21 18:07	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*	<50.0	50.0	31.2	mg/kg	5	09/10/21 15:06	8015B		MS
DRO >C10-C28*	2410	50.0	21.3	mg/kg	5	09/10/21 15:06	8015B		MS
EXT DRO >C28-C36	926	50.0	21.3	mg/kg	5	09/10/21 15:06	8015B		MS

Surrogate: 1-Chlorooctane 98.3 % 44.3-133 09/10/21 15:06 8015B MS

Surrogate: 1-Chlorooctadecane 156 % 38.9-142 09/10/21 15:06 8015B MS

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Debbie Zufelt, Reports Manager

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 5
Project Manager: Kyle Siesser

Reported:
09/27/21 13:12

SS01

2109054-01 (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	09/10/21 06:23	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	09/10/21 06:23	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	09/10/21 06:23	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	09/10/21 06:23	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	09/10/21 06:23	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0250	mg/kg	50	09/10/21 06:23	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	09/10/21 06:23	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	09/10/21 06:23	8260B		MS
Naphthalene*	0.0909	0.0250	0.00500	mg/kg	50	09/10/21 06:23	8260B		MS

Surrogate: Dibromofluoromethane 104 % 84.6-114 09/10/21 06:23 8260B MS

Surrogate: Toluene-d8 95.9 % 90.4-109 09/10/21 06:23 8260B MS

Surrogate: 4-Bromofluorobenzene 95.5 % 82.5-117 09/10/21 06:23 8260B MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.153	0.400	0.153	mg/kg	400	09/14/21 22:44	8270C		MS
2-Methylnaphthalene*	<0.226	0.400	0.226	mg/kg	400	09/14/21 22:44	8270C		MS
1-Methylnaphthalene	<0.161	0.400	0.161	mg/kg	400	09/14/21 22:44	8270C		MS
Acenaphthylene*	<0.196	0.400	0.196	mg/kg	400	09/14/21 22:44	8270C		MS
Acenaphthene*	<0.235	0.400	0.235	mg/kg	400	09/14/21 22:44	8270C		MS
Fluorene*	0.771	0.400	0.142	mg/kg	400	09/14/21 22:44	8270C		MS
Phenanthrene*	2.06	0.400	0.214	mg/kg	400	09/14/21 22:44	8270C		MS
Anthracene*	<0.172	0.400	0.172	mg/kg	400	09/14/21 22:44	8270C		MS
Carbazole*	<0.190	0.400	0.190	mg/kg	400	09/14/21 22:44	8270C		MS
Fluoranthene*	0.254	0.400	0.185	mg/kg	400	09/14/21 22:44	8270C	J	MS
Pyrene*	0.564	0.400	0.132	mg/kg	400	09/14/21 22:44	8270C		MS
Benzo[a]anthracene*	<0.230	0.400	0.230	mg/kg	400	09/14/21 22:44	8270C		MS
Chrysene*	0.800	0.400	0.172	mg/kg	400	09/14/21 22:44	8270C		MS
Benzo[b]fluoranthene*	<0.192	0.400	0.192	mg/kg	400	09/14/21 22:44	8270C		MS
Benzo[k]fluoranthene*	<0.157	0.400	0.157	mg/kg	400	09/14/21 22:44	8270C		MS
Benzo[a]pyrene*	<0.182	0.400	0.182	mg/kg	400	09/14/21 22:44	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.168	0.400	0.168	mg/kg	400	09/14/21 22:44	8270C		MS

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Debbie Zufelt

Debbie Zufelt, Reports Manager

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 5
Project Manager: Kyle Siesser

Reported:
09/27/21 13:12

SS01

2109054-01 (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	09/14/21 22:44	8270C		MS
Benzo[g,h,i]perylene*	<0.186	0.400	0.186	mg/kg	400	09/14/21 22:44	8270C		MS
Surrogate: Nitrobenzene-d5			74.3 %	39.6-121		09/14/21 22:44	8270C		MS
Surrogate: 2-Fluorobiphenyl			85.3 %	39.8-134		09/14/21 22:44	8270C		MS
Surrogate: Terphenyl-d14			91.2 %	33.3-136		09/14/21 22:44	8270C		MS

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 5
Project Manager: Kyle Siesser

Reported:
09/27/21 13:12

SS02

2109054-02 (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	256	0.200	0.116	mg/L	2	09/23/21 13:17	EPA200.7		AES
Conductivity	2030			umho/cm @ 25.0°C	1	09/22/21 14:55	ASA#9 10-3.3		VJW
Magnesium	39.4	0.200	0.131	mg/L	2	09/23/21 13:17	EPA200.7		AES
pH	7.75			pH Units	1	09/22/21 13:00	ASA#9 10-3.2		VJW
SAR	1.58			No Unit	1	09/23/21 13:17	Calculation		AES
Sodium	103	2.00	0.159	mg/L	2	09/23/21 13:17	EPA200.7		AES

Total Metals by ICP

Barium	139	5.00	0.390	mg/kg dry	100	09/21/21 12:44	6010B		AES
Cadmium	<5.00	5.00	1.10	mg/kg dry	100	09/21/21 12:44	6010B		AES
Chromium	14.4	5.00	0.400	mg/kg dry	100	09/21/21 12:44	6010B		AES
Copper	24.0	5.00	2.39	mg/kg dry	100	09/21/21 12:44	6010B		AES
Lead	10.4	10.0	0.906	mg/kg dry	100	09/21/21 12:44	6010B		AES
Nickel	10.4	5.00	0.874	mg/kg dry	100	09/21/21 12:44	6010B		AES
Selenium	<20.0	20.0	4.70	mg/kg dry	100	09/21/21 12:43	6010B		AES
Silver	<1.00	1.00	0.688	mg/kg dry	100	09/21/21 12:43	6010B		AES
Zinc	60.4	10.0	1.71	mg/kg dry	100	09/21/21 12:44	6010B		AES

Total Metals by ICPMS

Arsenic	4.61	1.00	0.0950	mg/kg dry	1000	09/17/21 13:10	6020A		AES
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Hot Water Extractable

Boron	1.36	1.20	0.568	mg/L	4	09/16/21 18:12	EPA200.7		AES
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	09/10/21 13:30	8015B		MS
DRO >C10-C28*	12.7	10.0	4.26	mg/kg	1	09/10/21 13:30	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	09/10/21 13:30	8015B		MS

Surrogate: 1-Chlorooctane 123 % 44.3-133 09/10/21 13:30 8015B MS

Surrogate: 1-Chlorooctadecane 126 % 38.9-142 09/10/21 13:30 8015B MS

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Debbie Zufelt, Reports Manager

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 5
Project Manager: Kyle Siesser

Reported:
09/27/21 13:12

SS02

2109054-02 (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	09/10/21 06:43	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	09/10/21 06:43	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	09/10/21 06:43	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	09/10/21 06:43	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	09/10/21 06:43	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0250	mg/kg	50	09/10/21 06:43	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	09/10/21 06:43	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	09/10/21 06:43	8260B		MS
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	09/10/21 06:43	8260B		MS

Surrogate: Dibromofluoromethane 103 % 84.6-114 09/10/21 06:43 8260B MS

Surrogate: Toluene-d8 98.0 % 90.4-109 09/10/21 06:43 8260B MS

Surrogate: 4-Bromofluorobenzene 87.7 % 82.5-117 09/10/21 06:43 8260B MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	09/16/21 13:15	8270C		MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	09/16/21 13:15	8270C		MS
1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	09/16/21 13:15	8270C		MS
Acenaphthylene*	<0.020	0.040	0.020	mg/kg	40	09/16/21 13:15	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	09/16/21 13:15	8270C		MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	09/16/21 13:15	8270C		MS
Phenanthrene*	<0.021	0.040	0.021	mg/kg	40	09/16/21 13:15	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	09/16/21 13:15	8270C		MS
Carbazole*	<0.019	0.040	0.019	mg/kg	40	09/16/21 13:15	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	09/16/21 13:15	8270C		MS
Pyrene*	<0.013	0.040	0.013	mg/kg	40	09/16/21 13:15	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	09/16/21 13:15	8270C		MS
Chrysene*	<0.017	0.040	0.017	mg/kg	40	09/16/21 13:15	8270C		MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	09/16/21 13:15	8270C		MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	09/16/21 13:15	8270C		MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	09/16/21 13:15	8270C		MS

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Debbie Zufelt

Debbie Zufelt, Reports Manager

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 5
Project Manager: Kyle Siesser

Reported:
09/27/21 13:12

SS02

2109054-02 (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

Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	09/16/21 13:15	8270C		MS
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	09/16/21 13:15	8270C		MS
Benzo[g,h,i]perylene*	<0.019	0.040	0.019	mg/kg	40	09/16/21 13:15	8270C		MS
Surrogate: Nitrobenzene-d5			71.2 %	39.6-121		09/16/21 13:15	8270C		MS
Surrogate: 2-Fluorobiphenyl			73.7 %	39.8-134		09/16/21 13:15	8270C		MS
Surrogate: Terphenyl-d14			74.7 %	33.3-136		09/16/21 13:15	8270C		MS

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Debbie Zufelt, Reports Manager

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Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 5
Project Manager: Kyle Siesser

Reported:
09/27/21 13:12

SS03**2109054-03 (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	M5	JDA
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Saturated Paste Extraction

Calcium	38.1	0.100	0.058	mg/L	1	09/23/21 13:19	EPA200.7		AES
Conductivity	306			umho/cm @ 25.0°C	1	09/22/21 14:55	ASA#9 10-3.3		VJW
Magnesium	6.39	0.100	0.065	mg/L	1	09/23/21 13:19	EPA200.7		AES
pH	7.71			pH Units	1	09/22/21 13:00	ASA#9 10-3.2		VJW
SAR	0.74			No Unit	1	09/23/21 13:19	Calculation		AES
Sodium	18.7	1.00	0.079	mg/L	1	09/23/21 13:19	EPA200.7		AES

Total Metals by ICP

Barium	290	5.00	0.390	mg/kg dry	100	09/21/21 12:48	6010B		AES
Cadmium	<5.00	5.00	1.10	mg/kg dry	100	09/21/21 12:48	6010B		AES
Chromium	25.7	5.00	0.400	mg/kg dry	100	09/21/21 12:48	6010B		AES
Copper	42.1	5.00	2.39	mg/kg dry	100	09/21/21 12:48	6010B		AES
Lead	<10.0	10.0	0.906	mg/kg dry	100	09/21/21 12:48	6010B		AES
Nickel	16.5	5.00	0.874	mg/kg dry	100	09/21/21 12:48	6010B		AES
Selenium	<20.0	20.0	4.70	mg/kg dry	100	09/21/21 12:48	6010B		AES
Silver	<1.00	1.00	0.688	mg/kg dry	100	09/21/21 12:48	6010B		AES
Zinc	69.4	10.0	1.71	mg/kg dry	100	09/21/21 12:48	6010B		AES

Total Metals by ICPMS

Arsenic	5.05	1.00	0.0950	mg/kg dry	1000	09/17/21 13:14	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	09/16/21 18:14	EPA200.7		AES
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	09/10/21 13:46	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	09/10/21 13:46	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	09/10/21 13:46	8015B		MS

Surrogate: 1-Chlorooctane 98.9 % 44.3-133 09/10/21 13:46 8015B MS

Surrogate: 1-Chlorooctadecane 99.9 % 38.9-142 09/10/21 13:46 8015B MS

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dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 5
Project Manager: Kyle Siesser

Reported:
09/27/21 13:12

SS03

2109054-03 (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	09/10/21 07:03	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	09/10/21 07:03	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	09/10/21 07:03	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	09/10/21 07:03	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	09/10/21 07:03	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0250	mg/kg	50	09/10/21 07:03	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	09/10/21 07:03	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	09/10/21 07:03	8260B		MS
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	09/10/21 07:03	8260B		MS

Surrogate: Dibromofluoromethane 103 % 84.6-114 09/10/21 07:03 8260B MS

Surrogate: Toluene-d8 99.3 % 90.4-109 09/10/21 07:03 8260B MS

Surrogate: 4-Bromofluorobenzene 86.4 % 82.5-117 09/10/21 07:03 8260B MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	09/16/21 13:45	8270C		MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	09/16/21 13:45	8270C		MS
1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	09/16/21 13:45	8270C		MS
Acenaphthylene*	<0.020	0.040	0.020	mg/kg	40	09/16/21 13:45	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	09/16/21 13:45	8270C		MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	09/16/21 13:45	8270C		MS
Phenanthrene*	<0.021	0.040	0.021	mg/kg	40	09/16/21 13:45	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	09/16/21 13:45	8270C		MS
Carbazole*	<0.019	0.040	0.019	mg/kg	40	09/16/21 13:45	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	09/16/21 13:45	8270C		MS
Pyrene*	<0.013	0.040	0.013	mg/kg	40	09/16/21 13:45	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	09/16/21 13:45	8270C		MS
Chrysene*	<0.017	0.040	0.017	mg/kg	40	09/16/21 13:45	8270C		MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	09/16/21 13:45	8270C		MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	09/16/21 13:45	8270C		MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	09/16/21 13:45	8270C		MS

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dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 5
Project Manager: Kyle Siesser

Reported:
09/27/21 13:12

SS03

2109054-03 (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

Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	09/16/21 13:45	8270C		MS
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	09/16/21 13:45	8270C		MS
Benzo[g,h,i]perylene*	<0.019	0.040	0.019	mg/kg	40	09/16/21 13:45	8270C		MS
Surrogate: Nitrobenzene-d5			72.2 %	39.6-121		09/16/21 13:45	8270C		MS
Surrogate: 2-Fluorobiphenyl			70.4 %	39.8-134		09/16/21 13:45	8270C		MS
Surrogate: Terphenyl-d14			68.8 %	33.3-136		09/16/21 13:45	8270C		MS

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 5
Project Manager: Kyle Siesser

Reported:
09/27/21 13:12

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							
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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			
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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			
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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	
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Reference (B212188-SRM1)

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

Conductivity	7150		umho/cm @ 25.0°C	6720		106	90-110			
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Batch B212189 - Paste Extract

Duplicate (B212189-DUP2)

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

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 5
Project Manager: Kyle Siesser

Reported:
09/27/21 13:12

**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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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 5
Project Manager: Kyle Siesser

Reported:
09/27/21 13:12

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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dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 5
Project Manager: Kyle Siesser

Reported:
09/27/21 13:12

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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Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 5
Project Manager: Kyle Siesser

Reported:
09/27/21 13:12

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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dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 5
Project Manager: Kyle Siesser

Reported:
09/27/21 13:12

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 1090814 - Volatiles

Blank (1090814-BLK1)

Prepared: 09/08/21 Analyzed: 09/10/21

1,2,4-Trimethylbenzene	ND	0.0250	mg/kg						
1,3,5-Trimethylbenzene	ND	0.0250	mg/kg						
Surrogate: 4-Bromofluorobenzene	1.11		mg/kg	1.25		88.8	82.5-117		
Benzene	ND	0.0250	mg/kg						
Surrogate: Dibromofluoromethane	1.23		mg/kg	1.25		98.6	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	1.22		mg/kg	1.25		97.3	90.4-109		
Total Xylenes	ND	0.0750	mg/kg						

LCS (1090814-BS1)

Prepared: 09/08/21 Analyzed: 09/10/21

1,2,4-Trimethylbenzene	0.462	0.0250	mg/kg	0.500		92.4	62.4-140		
1,3,5-Trimethylbenzene	0.469	0.0250	mg/kg	0.500		93.7	64.4-138		
Surrogate: 4-Bromofluorobenzene	1.18		mg/kg	1.25		94.4	82.5-117		
Benzene	0.499	0.0250	mg/kg	0.500		99.7	73-130		
Surrogate: Dibromofluoromethane	1.16		mg/kg	1.25		92.6	84.6-114		
Ethylbenzene	0.475	0.0250	mg/kg	0.500		95.1	75.4-127		
m+p - Xylene	0.974	0.0500	mg/kg	1.00		97.4	71.8-133		
Naphthalene	0.329	0.0250	mg/kg	0.500		65.8	28.7-158		
o-Xylene	0.458	0.0250	mg/kg	0.500		91.6	78.6-125		
Toluene	0.499	0.0250	mg/kg	0.500		99.9	79-122		
Surrogate: Toluene-d8	1.21		mg/kg	1.25		97.1	90.4-109		
Total Xylenes	1.43	0.0750	mg/kg	1.50		95.5	74.6-130		

LCS Dup (1090814-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	9.11	38.2
1,3,5-Trimethylbenzene	0.505	0.0250	mg/kg	0.500	101	64.4-138	7.56	39.1
Surrogate: 4-Bromofluorobenzene	1.24		mg/kg	1.25	99.4	82.5-117		
Benzene	0.514	0.0250	mg/kg	0.500	103	73-130	3.04	17.1
Surrogate: Dibromofluoromethane	1.19		mg/kg	1.25	95.0	84.6-114		
Ethylbenzene	0.508	0.0250	mg/kg	0.500	102	75.4-127	6.57	16.5
m+p - Xylene	1.03	0.0500	mg/kg	1.00	103	71.8-133	5.55	19.1
Naphthalene	0.392	0.0250	mg/kg	0.500	78.5	28.7-158	17.6	64
o-Xylene	0.508	0.0250	mg/kg	0.500	102	78.6-125	10.3	13.2
Toluene	0.505	0.0250	mg/kg	0.500	101	79-122	1.02	18.3

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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) 5
Project Manager: Kyle Siesser

Reported:
09/27/21 13:12

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 1090814 - Volatiles (Continued)

LCS Dup (1090814-BSD1) (Continued)

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

Surrogate: Toluene-d8	1.24		mg/kg	1.25		99.1	90.4-109			
Total Xylenes	1.54	0.0750	mg/kg	1.50		102	74.6-130	7.10	16.5	

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 5
Project Manager: Kyle Siesser

Reported:
09/27/21 13:12

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 1090817 - SW846-3510

Blank (1090817-BLK1)

Prepared: 09/08/21 Analyzed: 09/14/21

1-Methylnaphthalene	ND	0.040	mg/kg							
Surrogate: 2-Fluorobiphenyl	1.34		mg/kg	2.00		67.2	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	1.21		mg/kg	2.00		60.5	39.6-121			
Phenanthrene	ND	0.040	mg/kg							
Pyrene	ND	0.040	mg/kg							
Surrogate: Terphenyl-d14	1.43		mg/kg	2.00		71.7	33.3-136			

LCS (1090817-BS1)

Prepared: 09/08/21 Analyzed: 09/14/21

1-Methylnaphthalene	0.250	0.040	mg/kg	0.400		62.4	57.6-108			
Surrogate: 2-Fluorobiphenyl	1.20		mg/kg	2.00		59.9	39.8-134			
2-Methylnaphthalene	0.254	0.040	mg/kg	0.400		63.6	59-106			
Acenaphthene	0.275	0.040	mg/kg	0.400		68.8	60.9-105			
Acenaphthylene	0.262	0.040	mg/kg	0.400		65.5	57.4-107			
Anthracene	0.268	0.040	mg/kg	0.400		67.0	60.8-105			
Benzo[a]anthracene	0.271	0.040	mg/kg	0.400		67.7	56.1-121			
Benzo[a]pyrene	0.230	0.040	mg/kg	0.400		57.4	56.7-115			
Benzo[b]fluoranthene	0.272	0.040	mg/kg	0.400		68.0	45.4-128			
Benzo[g,h,i]perylene	0.255	0.040	mg/kg	0.400		63.7	56.5-107			
Benzo[k]fluoranthene	0.274	0.040	mg/kg	0.400		68.6	49.6-119			
Carbazole	0.270	0.040	mg/kg	0.400		67.6	59.7-107			
Chrysene	0.268	0.040	mg/kg	0.400		66.9	12.2-190			
Dibenz[a,h]anthracene	0.245	0.040	mg/kg	0.400		61.3	59.1-111			
Fluoranthene	0.268	0.040	mg/kg	0.400		67.1	60.6-111			

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 5
Project Manager: Kyle Siesser

Reported:
09/27/21 13:12

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 1090817 - SW846-3510 (Continued)

LCS (1090817-BS1) (Continued)

Prepared: 09/08/21 Analyzed: 09/14/21

Fluorene	0.266	0.040	mg/kg	0.400		66.5	59.3-108			
Indeno[1,2,3-cd]pyrene	0.258	0.040	mg/kg	0.400		64.4	53.4-116			
Naphthalene	0.250	0.040	mg/kg	0.400		62.5	56.5-106			
Surrogate: Nitrobenzene-d5	1.16		mg/kg	2.00		57.8	39.6-121			
Phenanthrene	0.270	0.040	mg/kg	0.400		67.5	59.9-107			
Pyrene	0.279	0.040	mg/kg	0.400		69.8	51.5-122			
Surrogate: Terphenyl-d14	1.32		mg/kg	2.00		66.1	33.3-136			

LCS Dup (1090817-BS1)

Prepared: 09/08/21 Analyzed: 09/14/21

1-Methylnaphthalene	0.242	0.040	mg/kg	0.400		60.5	57.6-108	3.13	6.22	
Surrogate: 2-Fluorobiphenyl	1.28		mg/kg	2.00		63.9	39.8-134			
2-Methylnaphthalene	0.262	0.040	mg/kg	0.400		65.4	59-106	2.81	6.23	
Acenaphthene	0.267	0.040	mg/kg	0.400		66.7	60.9-105	3.05	8.18	
Acenaphthylene	0.265	0.040	mg/kg	0.400		66.2	57.4-107	1.04	5	
Anthracene	0.255	0.040	mg/kg	0.400		63.7	60.8-105	5.04	3.68	QR-04
Benzo[a]anthracene	0.282	0.040	mg/kg	0.400		70.5	56.1-121	4.08	9.01	
Benzo[a]pyrene	0.236	0.040	mg/kg	0.400		59.0	56.7-115	2.79	4.92	
Benzo[b]fluoranthene	0.284	0.040	mg/kg	0.400		71.0	45.4-128	4.44	7.63	
Benzo[g,h,i]perylene	0.257	0.040	mg/kg	0.400		64.2	56.5-107	0.751	12.5	
Benzo[k]fluoranthene	0.257	0.040	mg/kg	0.400		64.2	49.6-119	6.64	10.6	
Carbazole	0.275	0.040	mg/kg	0.400		68.7	59.7-107	1.69	8.65	
Chrysene	0.273	0.040	mg/kg	0.400		68.1	12.2-190	1.88	21.8	
Dibenz[a,h]anthracene	0.247	0.040	mg/kg	0.400		61.6	59.1-111	0.500	11.6	
Fluoranthene	0.256	0.040	mg/kg	0.400		63.9	60.6-111	4.84	7.54	
Fluorene	0.267	0.040	mg/kg	0.400		66.8	59.3-108	0.499	5.49	
Indeno[1,2,3-cd]pyrene	0.260	0.040	mg/kg	0.400		65.1	53.4-116	0.996	22.3	
Naphthalene	0.249	0.040	mg/kg	0.400		62.3	56.5-106	0.341	4.56	
Surrogate: Nitrobenzene-d5	1.13		mg/kg	2.00		56.3	39.6-121			
Phenanthrene	0.258	0.040	mg/kg	0.400		64.4	59.9-107	4.69	5.21	
Pyrene	0.260	0.040	mg/kg	0.400		64.9	51.5-122	7.23	10.6	
Surrogate: Terphenyl-d14	1.27		mg/kg	2.00		63.5	33.3-136			

Batch 1090904 - SW846-3510

Blank (1090904-BLK1)

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

1-Methylnaphthalene	ND	0.040	mg/kg							
Surrogate: 2-Fluorobiphenyl	1.53		mg/kg	2.00		76.7	39.8-134			
2-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthene	ND	0.040	mg/kg							

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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) 5
Project Manager: Kyle Siesser

Reported:
09/27/21 13:12

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)

Blank (1090904-BLK1) (Continued)

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

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	1.48		mg/kg	2.00		74.2	39.6-121			
Phenanthrene	ND	0.040	mg/kg							
Pyrene	ND	0.040	mg/kg							

Surrogate: Terphenyl-d14	1.57		mg/kg	2.00		78.3	33.3-136			
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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			
Surrogate: 2-Fluorobiphenyl	1.59		mg/kg	2.00		79.6	39.8-134			
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]fluoranthene	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]fluoranthene	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			
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			

Surrogate: Nitrobenzene-d5	1.37		mg/kg	2.00		68.5	39.6-121			
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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) 5
Project Manager: Kyle Siesser

Reported:
09/27/21 13:12

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

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			
Surrogate: Terphenyl-dl4	1.56		mg/kg	2.00		78.2	33.3-136			

LCS Dup (1090904-BSD1)

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	
Surrogate: 2-Fluorobiphenyl	1.58		mg/kg	2.00		79.0	39.8-134			
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	
Surrogate: Nitrobenzene-d5	1.47		mg/kg	2.00		73.5	39.6-121			
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	
Surrogate: Terphenyl-dl4	1.67		mg/kg	2.00		83.7	33.3-136			

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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) 5
Project Manager: Kyle Siesser

Reported:
09/27/21 13:12

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.
QR-04	The RPD for the BS/BSD was outside of historical limits.
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).
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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Debbie Zufelt, Reports Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(970) 247-4220
Fax: (970) 247-4227

service@greenanalytical.com or dzufelt@greenanalytical.com
75 Suttle St Durango, CO 81303

Company Name: Cottonwood Consulting LLC

Project Manager: Kyle Siesser

Address: PO Box 1653

City: Durango

State: CO Zip: 81302

Phone #: 970-764-7356

Email: ksiesser@cottonwoodconsulting.com

Additional Report To:

Project Name: Margaret Spaulding (COWP) S

Project Number:

Sampler Name (Print): Emma Millar / Kyle Siesser

FOR LAB USE ONLY

ANALYSIS REQUEST

Bill to (if different):

P.O. #:

Company:

Attn:

Address:

City:

State: Zip:

Phone #:

Fax or Email:

Collected

Matrix (check one)

of containers

Lab I.D.

Sample Name or Location

2109-054-01

-02

-03

8/31/21 1720

1710

1705

GROUNDWATER

SURFACEWATER

WASTEWATER

PRODUCEDWATER

SOIL

OTHER :

No preservation (general)

HNO₃

HCl

H₂SO₄

Other:

Other:

COGCC Table 915-1

X X X X

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: 9/3/21

Time: 1115

Received By:

Date:

Relinquished By:

Received By:

Date:

Time:

Delivered By: (Circle One)

Sampler: UPS - FedEx - Kangaroo - Other:

Temperature at receipt:

CHECKED BY:

5.2/5.1°C

DJ

ADDITIONAL REMARKS:

Report to State? (Circle)

Yes

No

#3 larger On Ice