



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



Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Margaret Spaulding (OWP) 11	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	09/27/21 13:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS01	2109057-01	Solid	08/31/21 16:20	09/03/21 11:15	
SS02	2109057-02	Solid	08/31/21 16:15	09/03/21 11:15	
SS03	2109057-03	Solid	08/31/21 16:00	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) 11 Project Manager: Kyle Siesser	Reported: 09/27/21 13:41
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SS01

2109057-01 (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	139	0.200	0.116	mg/L	2	09/23/21 13:42	EPA200.7		AES
Conductivity	1260			umho/cm @ 25.0°C	1	09/22/21 14:55	ASA#9 10-3.3		VJW
Magnesium	22.2	0.200	0.131	mg/L	2	09/23/21 13:42	EPA200.7		AES
pH	8.34			pH Units	1	09/22/21 13:00	ASA#9 10-3.2		VJW
SAR	1.80			No Unit	1	09/23/21 13:42	Calculation		AES
Sodium	86.6	2.00	0.159	mg/L	2	09/23/21 13:42	EPA200.7		AES

Total Metals by ICP

Barium	257	5.00	0.390	mg/kg dry	100	09/21/21 13:28	6010B		AES
Cadmium	<5.00	5.00	1.10	mg/kg dry	100	09/21/21 13:28	6010B	SD2	AES
Chromium	23.3	5.00	0.400	mg/kg dry	100	09/21/21 13:28	6010B	SD2	AES
Copper	25.6	5.00	2.39	mg/kg dry	100	09/21/21 13:28	6010B		AES
Lead	101	10.0	0.906	mg/kg dry	100	09/21/21 13:28	6010B		AES
Nickel	11.2	5.00	0.874	mg/kg dry	100	09/21/21 13:28	6010B	SD2	AES
Selenium	<20.0	20.0	4.70	mg/kg dry	100	09/21/21 13:28	6010B		AES
Silver	<1.00	1.00	0.688	mg/kg dry	100	09/21/21 13:28	6010B		AES
Zinc	52.2	10.0	1.71	mg/kg dry	100	09/21/21 13:28	6010B	SD2	AES

Total Metals by ICPMS

Arsenic	5.40	1.00	0.0950	mg/kg dry	1000	09/17/21 13:44	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	09/16/21 18:28	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 14:50	8015B		MS
DRO >C10-C28*	232	10.0	4.26	mg/kg	1	09/10/21 14:50	8015B		MS
EXT DRO >C28-C36	91.8	10.0	4.26	mg/kg	1	09/10/21 14:50	8015B		MS

Surrogate: 1-Chlorooctane			102 %	44.3-133		09/10/21 14:50	8015B		MS
Surrogate: 1-Chlorooctadecane			108 %	38.9-142		09/10/21 14:50	8015B		MS

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SS01

2109057-01 (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 05:23	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	09/10/21 05:23	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	09/10/21 05:23	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	09/10/21 05:23	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	09/10/21 05:23	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0250	mg/kg	50	09/10/21 05:23	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	09/10/21 05:23	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	09/10/21 05:23	8260B		MS
Naphthalene*	0.0295	0.0250	0.00500	mg/kg	50	09/10/21 05:23	8260B		MS
Surrogate: Dibromofluoromethane			103 %	84.6-114		09/10/21 05:23	8260B		MS
Surrogate: Toluene-d8			92.8 %	90.4-109		09/10/21 05:23	8260B		MS
Surrogate: 4-Bromofluorobenzene			101 %	82.5-117		09/10/21 05:23	8260B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	0.018	0.040	0.015	mg/kg	40	09/15/21 15:32	8270C	J	MS
2-Methylnaphthalene*	0.068	0.040	0.023	mg/kg	40	09/15/21 15:32	8270C		MS
1-Methylnaphthalene	0.073	0.040	0.016	mg/kg	40	09/15/21 15:32	8270C		MS
Acenaphthylene*	<0.020	0.040	0.020	mg/kg	40	09/15/21 15:32	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	09/15/21 15:32	8270C		MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	09/15/21 15:32	8270C		MS
Phenanthrene*	0.049	0.040	0.021	mg/kg	40	09/15/21 15:32	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	09/15/21 15:32	8270C		MS
Carbazole*	<0.019	0.040	0.019	mg/kg	40	09/15/21 15:32	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	09/15/21 15:32	8270C		MS
Pyrene*	0.063	0.040	0.013	mg/kg	40	09/15/21 15:32	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	09/15/21 15:32	8270C		MS
Chrysene*	0.089	0.040	0.017	mg/kg	40	09/15/21 15:32	8270C		MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	09/15/21 15:32	8270C		MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	09/15/21 15:32	8270C		MS
Benzo[a]pyrene*	0.106	0.040	0.018	mg/kg	40	09/15/21 15:32	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	09/15/21 15:32	8270C		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) 11 Project Manager: Kyle Siesser	Reported: 09/27/21 13:41
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SS01

2109057-01 (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*	<0.019	0.040	0.019	mg/kg	40	09/15/21 15:32	8270C		MS
Benzo[g,h,i]perylene*	<0.019	0.040	0.019	mg/kg	40	09/15/21 15:32	8270C		MS
Surrogate: Nitrobenzene-d5			53.4 %	39.6-121		09/15/21 15:32	8270C		MS
Surrogate: 2-Fluorobiphenyl			71.5 %	39.8-134		09/15/21 15:32	8270C		MS
Surrogate: Terphenyl-d14			76.3 %	33.3-136		09/15/21 15:32	8270C		MS

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SS02

2109057-02 (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	33.5	0.100	0.058	mg/L	1	09/23/21 13:46	EPA200.7		AES
Conductivity	757			umho/cm @ 25.0°C	1	09/22/21 14:55	ASA#9 10-3.3		VJW
Magnesium	6.99	0.100	0.065	mg/L	1	09/23/21 13:46	EPA200.7		AES
pH	8.10			pH Units	1	09/22/21 13:00	ASA#9 10-3.2		VJW
SAR	4.97			No Unit	1	09/23/21 13:46	Calculation		AES
Sodium	121	1.00	0.079	mg/L	1	09/23/21 13:46	EPA200.7		AES

Total Metals by ICP

Barium	143	5.00	0.390	mg/kg dry	100	09/21/21 13:44	6010B		AES
Cadmium	<5.00	5.00	1.10	mg/kg dry	100	09/21/21 13:44	6010B		AES
Chromium	18.8	5.00	0.400	mg/kg dry	100	09/21/21 13:44	6010B		AES
Copper	25.5	5.00	2.39	mg/kg dry	100	09/21/21 13:44	6010B		AES
Lead	18.1	10.0	0.906	mg/kg dry	100	09/21/21 13:44	6010B		AES
Nickel	14.2	5.00	0.874	mg/kg dry	100	09/21/21 13:44	6010B		AES
Selenium	<20.0	20.0	4.70	mg/kg dry	100	09/21/21 13:43	6010B		AES
Silver	<1.00	1.00	0.688	mg/kg dry	100	09/21/21 13:43	6010B		AES
Zinc	47.6	10.0	1.71	mg/kg dry	100	09/21/21 13:44	6010B		AES

Total Metals by ICPMS

Arsenic	6.23	1.00	0.0950	mg/kg dry	1000	09/17/21 13:58	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	09/16/21 18:30	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 12:58	8015B		MS
DRO >C10-C28*	11.5	10.0	4.26	mg/kg	1	09/10/21 12:58	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	09/10/21 12:58	8015B		MS

Surrogate: 1-Chlorooctane			98.4 %	44.3-133		09/10/21 12:58	8015B		MS
Surrogate: 1-Chlorooctadecane			102 %	38.9-142		09/10/21 12:58	8015B		MS

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SS02

2109057-02 (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 05:43	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	09/10/21 05:43	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	09/10/21 05:43	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	09/10/21 05:43	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	09/10/21 05:43	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0250	mg/kg	50	09/10/21 05:43	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	09/10/21 05:43	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	09/10/21 05:43	8260B		MS
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	09/10/21 05:43	8260B		MS
Surrogate: Dibromofluoromethane			101 %	84.6-114		09/10/21 05:43	8260B		MS
Surrogate: Toluene-d8			97.2 %	90.4-109		09/10/21 05:43	8260B		MS
Surrogate: 4-Bromofluorobenzene			87.9 %	82.5-117		09/10/21 05:43	8260B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	09/14/21 21:45	8270C		MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	09/14/21 21:45	8270C		MS
1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	09/14/21 21:45	8270C		MS
Acenaphthylene*	<0.020	0.040	0.020	mg/kg	40	09/14/21 21:45	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	09/14/21 21:45	8270C		MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	09/14/21 21:45	8270C		MS
Phenanthrene*	<0.021	0.040	0.021	mg/kg	40	09/14/21 21:45	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	09/14/21 21:45	8270C		MS
Carbazole*	<0.019	0.040	0.019	mg/kg	40	09/14/21 21:45	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	09/14/21 21:45	8270C		MS
Pyrene*	<0.013	0.040	0.013	mg/kg	40	09/14/21 21:45	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	09/14/21 21:45	8270C		MS
Chrysene*	<0.017	0.040	0.017	mg/kg	40	09/14/21 21:45	8270C		MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	09/14/21 21:45	8270C		MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	09/14/21 21:45	8270C		MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	09/14/21 21:45	8270C		MS

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Debbie Zufelt, Reports Manager

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SS02

2109057-02 (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	09/14/21 21:45	8270C		MS
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	09/14/21 21:45	8270C		MS
Benzo[g,h,i]perylene*	<0.019	0.040	0.019	mg/kg	40	09/14/21 21:45	8270C		MS
Surrogate: Nitrobenzene-d5			66.9 %	39.6-121		09/14/21 21:45	8270C		MS
Surrogate: 2-Fluorobiphenyl			71.7 %	39.8-134		09/14/21 21:45	8270C		MS
Surrogate: Terphenyl-d14			75.2 %	33.3-136		09/14/21 21:45	8270C		MS

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SS03

2109057-03 (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	70.4	0.100	0.058	mg/L	1	09/23/21 13:48	EPA200.7		AES
Conductivity	655			umho/cm @ 25.0°C	1	09/22/21 14:55	ASA#9 10-3.3		VJW
Magnesium	27.0	0.100	0.065	mg/L	1	09/23/21 13:48	EPA200.7		AES
pH	7.87			pH Units	1	09/22/21 13:00	ASA#9 10-3.2		VJW
SAR	0.66			No Unit	1	09/23/21 13:48	Calculation		AES
Sodium	25.6	1.00	0.079	mg/L	1	09/23/21 13:48	EPA200.7		AES

Total Metals by ICP

Barium	237	5.00	0.390	mg/kg dry	100	09/21/21 13:47	6010B		AES
Cadmium	<5.00	5.00	1.10	mg/kg dry	100	09/21/21 13:47	6010B		AES
Chromium	24.0	5.00	0.400	mg/kg dry	100	09/21/21 13:47	6010B		AES
Copper	20.2	5.00	2.39	mg/kg dry	100	09/21/21 13:47	6010B		AES
Lead	14.6	10.0	0.906	mg/kg dry	100	09/21/21 13:47	6010B		AES
Nickel	15.0	5.00	0.874	mg/kg dry	100	09/21/21 13:47	6010B		AES
Selenium	<20.0	20.0	4.70	mg/kg dry	100	09/21/21 13:47	6010B		AES
Silver	<1.00	1.00	0.688	mg/kg dry	100	09/21/21 13:47	6010B		AES
Zinc	37.2	10.0	1.71	mg/kg dry	100	09/21/21 13:47	6010B		AES

Total Metals by ICPMS

Arsenic	6.28	1.00	0.0950	mg/kg dry	1000	09/17/21 14:08	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	09/16/21 18:35	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 13:14	8015B		MS
DRO >C10-C28*	115	10.0	4.26	mg/kg	1	09/10/21 13:14	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	09/10/21 13:14	8015B		MS

Surrogate: 1-Chlorooctane			89.5 %	44.3-133		09/10/21 13:14	8015B		MS
Surrogate: 1-Chlorooctadecane			92.7 %	38.9-142		09/10/21 13:14	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) 11 Project Manager: Kyle Siesser	Reported: 09/27/21 13:41
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SS03

2109057-03 (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	09/13/21 12:24	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	09/13/21 12:24	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	09/13/21 12:24	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	09/13/21 12:24	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	09/13/21 12:24	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0250	mg/kg	50	09/13/21 12:24	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	09/13/21 12:24	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	09/13/21 12:24	8260B		MS
Naphthalene*	0.0436	0.0250	0.00500	mg/kg	50	09/13/21 12:24	8260B		MS
Surrogate: Dibromofluoromethane			105 %	84.6-114		09/13/21 12:24	8260B		MS
Surrogate: Toluene-d8			89.4 %	90.4-109		09/13/21 12:24	8260B	S-04	MS
Surrogate: 4-Bromofluorobenzene			100 %	82.5-117		09/13/21 12:24	8260B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	09/14/21 22:14	8270C		MS
2-Methylnaphthalene*	0.034	0.040	0.023	mg/kg	40	09/14/21 22:14	8270C	J	MS
1-Methylnaphthalene	0.107	0.040	0.016	mg/kg	40	09/14/21 22:14	8270C		MS
Acenaphthylene*	<0.020	0.040	0.020	mg/kg	40	09/14/21 22:14	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	09/14/21 22:14	8270C		MS
Fluorene*	0.098	0.040	0.014	mg/kg	40	09/14/21 22:14	8270C		MS
Phenanthrene*	0.226	0.040	0.021	mg/kg	40	09/14/21 22:14	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	09/14/21 22:14	8270C		MS
Carbazole*	<0.019	0.040	0.019	mg/kg	40	09/14/21 22:14	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	09/14/21 22:14	8270C		MS
Pyrene*	0.018	0.040	0.013	mg/kg	40	09/14/21 22:14	8270C	J	MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	09/14/21 22:14	8270C		MS
Chrysene*	<0.017	0.040	0.017	mg/kg	40	09/14/21 22:14	8270C		MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	09/14/21 22:14	8270C		MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	09/14/21 22:14	8270C		MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	09/14/21 22:14	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	09/14/21 22:14	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) 11 Project Manager: Kyle Siesser	Reported: 09/27/21 13:41
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SS03

2109057-03 (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*	<0.019	0.040	0.019	mg/kg	40	09/14/21 22:14	8270C		MS
Benzo[g,h,i]perylene*	<0.019	0.040	0.019	mg/kg	40	09/14/21 22:14	8270C		MS
Surrogate: Nitrobenzene-d5			65.0 %	39.6-121		09/14/21 22:14	8270C		MS
Surrogate: 2-Fluorobiphenyl			73.7 %	39.8-134		09/14/21 22:14	8270C		MS
Surrogate: Terphenyl-d14			73.5 %	33.3-136		09/14/21 22:14	8270C		MS

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Margaret Spaulding (OWP) 11	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	09/27/21 13:41

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 PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: Margaret Spaulding (OWP) 11 Project Manager: Kyle Siesser	Reported: 09/27/21 13:41
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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-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) 11	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	09/27/21 13:41

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 B212138 - EPA 3050

Blank (B212138-BLK1)

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

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 (B212138-BS1)

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

Barium	174	5.00	mg/kg dry	200		87.1	80-120			
Cadmium	161	5.00	mg/kg dry	200		80.4	80-120			
Chromium	177	5.00	mg/kg dry	200		88.4	80-120			
Copper	368	5.00	mg/kg dry	400		92.0	80-120			
Lead	166	10.0	mg/kg dry	200		83.1	80-120			
Nickel	167	5.00	mg/kg dry	200		83.3	80-120			
Selenium	739	20.0	mg/kg dry	800		92.3	80-120			
Silver	8.96	1.00	mg/kg dry	10.0		89.6	80-120			
Zinc	163	10.0	mg/kg dry	200		81.6	80-120			

LCS Dup (B212138-BSD1)

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

Barium	176	5.00	mg/kg dry	200		87.9	80-120	0.947	20	
Cadmium	163	5.00	mg/kg dry	200		81.4	80-120	1.27	20	
Chromium	178	5.00	mg/kg dry	200		89.1	80-120	0.754	20	
Copper	373	5.00	mg/kg dry	400		93.2	80-120	1.30	20	
Lead	168	10.0	mg/kg dry	200		84.0	80-120	1.09	20	
Nickel	169	5.00	mg/kg dry	200		84.7	80-120	1.72	20	
Selenium	745	20.0	mg/kg dry	800		93.2	80-120	0.892	20	
Silver	9.52	1.00	mg/kg dry	10.0		95.2	80-120	6.12	20	
Zinc	166	10.0	mg/kg dry	200		82.8	80-120	1.50	20	

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Margaret Spaulding (OWP) 11	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	09/27/21 13:41

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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Batch B212142 - EPA 3050M

Blank (B212142-BLK1)

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

Arsenic	ND	0.100	mg/kg dry							
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LCS (B212142-BS1)

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

Arsenic	5.10	0.100	mg/kg dry	5.00		102	80-120			
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LCS Dup (B212142-BSD1)

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

Arsenic	4.63	0.100	mg/kg dry	5.00		92.7	80-120	9.66	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) 11	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	09/27/21 13:41

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) 11	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	09/27/21 13:41

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							
<i>Surrogate: 4-Bromofluorobenzene</i>	1.11		mg/kg	1.25		88.8	82.5-117			
Benzene	ND	0.0250	mg/kg							
<i>Surrogate: Dibromofluoromethane</i>	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							
<i>Surrogate: Toluene-d8</i>	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			
<i>Surrogate: 4-Bromofluorobenzene</i>	1.18		mg/kg	1.25		94.4	82.5-117			
Benzene	0.499	0.0250	mg/kg	0.500		99.7	73-130			
<i>Surrogate: Dibromofluoromethane</i>	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			
<i>Surrogate: Toluene-d8</i>	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	
<i>Surrogate: 4-Bromofluorobenzene</i>	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	
<i>Surrogate: Dibromofluoromethane</i>	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, Reports Manager

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Margaret Spaulding (OWP) 11	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	09/27/21 13:41

**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	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Margaret Spaulding (OWP) 11	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	09/27/21 13:41

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

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			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1.20</i>		mg/kg	<i>2.00</i>		<i>59.9</i>	<i>39.8-134</i>			
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]flouranthene	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]flouranthene	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	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Margaret Spaulding (OWP) 11	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	09/27/21 13:41

**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			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1.16</i>		mg/kg	<i>2.00</i>		<i>57.8</i>	<i>39.6-121</i>			
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			
<i>Surrogate: Terphenyl-d14</i>	<i>1.32</i>		mg/kg	<i>2.00</i>		<i>66.1</i>	<i>33.3-136</i>			

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	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1.28</i>		mg/kg	<i>2.00</i>		<i>63.9</i>	<i>39.8-134</i>			
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	
<i>Surrogate: Nitrobenzene-d5</i>	<i>1.13</i>		mg/kg	<i>2.00</i>		<i>56.3</i>	<i>39.6-121</i>			
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	
<i>Surrogate: Terphenyl-d14</i>	<i>1.27</i>		mg/kg	<i>2.00</i>		<i>63.5</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) 11
Project Manager: Kyle Siesser

Reported:
09/27/21 13:41

Notes and Definitions

- SD2 Serial Dilution RPD exceeded the laboratory control limit. All other QC for analyte acceptable.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-04 The RPD for the BS/BSD was outside of historical limits.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
*Results reported on as received basis unless designated as dry.
- RPD Relative Percent Difference
- LCS Laboratory Control Sample (Blank Spike)
- RL Report Limit
- MDL Method Detection Limit

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