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14 November 2022

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

Enclosed are the results of analyses for samples received by the laboratory on 11/02/22 09:33. The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen  
Laboratory Director

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: T104704514-22-15

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: T104704398-22-15



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Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project: COGCC Table 915-1  
Project Name / Number: Champlin 117 Amoco C5  
Project Manager: Jake Harter

**Reported:**  
11/14/22 15:00

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS01	2211019-01	Solid	11/01/22 11:15	11/02/22 09:33	
SS02	2211019-02	Solid	11/01/22 11:30	11/02/22 09:33	

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Jeremy D Allen, Laboratory Director

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Project: COGCC Table 915-1  
Project Name / Number: Champlin 117 Amoco C5  
Project Manager: Jake Harter

Reported:  
11/14/22 15:00

## SS01

### 2211019-01 (Soil)

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

Hexavalent Chromium	<0.250	0.250	0.128	mg/kg dry	25	11/09/22 15:43	3060A/3500-Cr B		HTB
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#### Saturated Paste Extraction

Calcium	36.9	0.100	0.058	mg/L	1	11/11/22 14:38	EPA200.7		AES
Conductivity	536			umho/cm@25 C	1	11/08/22 09:15	ASA#9 10-3.3		AWG
Magnesium	13.4	0.100	0.065	mg/L	1	11/11/22 14:39	EPA200.7		AES
pH	7.82			pH Units	1	11/08/22 09:15	ASA#9 10-3.2		AWG
SAR	1.35			No Unit	1	11/11/22 14:38	Calculation		AES
Sodium	37.7	1.00	0.079	mg/L	1	11/11/22 14:38	EPA200.7		AES

#### Total Metals by ICP

Barium	176	5.00	1.10	mg/kg dry	100	11/04/22 16:13	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	11/04/22 16:13	6010B		AES
Chromium	10.8	5.00	1.58	mg/kg dry	100	11/04/22 16:13	6010B		AES
Copper	5.90	5.00	2.83	mg/kg dry	100	11/04/22 16:13	6010B		AES
Lead	<10.0	10.0	4.02	mg/kg dry	100	11/04/22 16:13	6010B		AES
Nickel	6.22	5.00	2.41	mg/kg dry	100	11/04/22 16:13	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	11/04/22 16:12	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	11/04/22 16:12	6010B		AES
Zinc	30.9	10.0	2.18	mg/kg dry	100	11/04/22 16:13	6010B		AES

#### Total Metals by ICPMS

Arsenic	2.51	1.00	0.158	mg/kg dry	1000	11/07/22 12:08	6020A		AES
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#### Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	11/08/22 16:40	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	11/08/22 02:40	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	11/08/22 02:40	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	11/08/22 02:40	8015B		MS

Surrogate: 1-Chlorooctane 84.5 % 45.3-161 11/08/22 02:40 8015B MS

Surrogate: 1-Chlorooctadecane 100 % 46.3-178 11/08/22 02:40 8015B MS

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Jeremy D Allen, Laboratory Director

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Project: COGCC Table 915-1  
Project Name / Number: Champlin 117 Amoco C5  
Project Manager: Jake Harter

Reported:  
11/14/22 15:00

## SS01

### 2211019-01 (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	11/08/22 16:44	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	11/08/22 16:44	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	11/08/22 16:44	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	11/08/22 16:44	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	11/08/22 16:44	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0256	mg/kg	50	11/08/22 16:44	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	11/08/22 16:44	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	11/08/22 16:44	8260B		MS
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	11/08/22 16:44	8260B		MS

Surrogate: Dibromofluoromethane 98.9 % 84.6-114 11/08/22 16:44 8260B MS

Surrogate: Toluene-d8 95.2 % 90.4-109 11/08/22 16:44 8260B MS

Surrogate: 4-Bromofluorobenzene 100 % 82.5-117 11/08/22 16:44 8260B MS

#### Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	11/04/22 22:01	8270C		MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	11/04/22 22:01	8270C		MS
1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	11/04/22 22:01	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	11/04/22 22:01	8270C		MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	11/04/22 22:01	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	11/04/22 22:01	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	11/04/22 22:01	8270C		MS
Pyrene*	<0.013	0.040	0.013	mg/kg	40	11/04/22 22:01	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	11/04/22 22:01	8270C		MS
Chrysene	<0.017	0.040	0.017	mg/kg	40	11/04/22 22:01	8270C		MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	11/04/22 22:01	8270C		MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	11/04/22 22:01	8270C		MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	11/04/22 22:01	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	11/04/22 22:01	8270C		MS
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	11/04/22 22:01	8270C		MS

Surrogate: Nitrobenzene-d5 50.5 % 39.6-121 11/04/22 22:01 8270C MS

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Jeremy D Allen, Laboratory Director

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Project: COGCC Table 915-1  
Project Name / Number: Champlin 117 Amoco C5  
Project Manager: Jake Harter

Reported:  
11/14/22 15:00

SS01

2211019-01 (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

Surrogate: 2-Fluorobiphenyl	80.7 %	39.8-134				11/04/22 22:01	8270C		MS
Surrogate: Terphenyl-dl4	98.5 %	33.3-136				11/04/22 22:01	8270C		MS

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Project: COGCC Table 915-1  
Project Name / Number: Champlin 117 Amoco C5  
Project Manager: Jake Harter

Reported:  
11/14/22 15:00

## SS02

### 2211019-02 (Soil)

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

Hexavalent Chromium	<0.250	0.250	0.128	mg/kg dry	25	11/09/22 15:43	3060A/3500-Cr B		HTB
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#### Saturated Paste Extraction

Calcium	51.1	0.100	0.058	mg/L	1	11/11/22 14:41	EPA200.7		AES
Conductivity	381			umho/cm@25 C	1	11/08/22 09:15	ASA#9 10-3.3		AWG
Magnesium	11.6	0.100	0.065	mg/L	1	11/11/22 14:41	EPA200.7		AES
pH	7.66			pH Units	1	11/08/22 09:15	ASA#9 10-3.2		AWG
SAR	0.36			No Unit	1	11/11/22 14:41	Calculation		AES
Sodium	10.9	1.00	0.079	mg/L	1	11/11/22 14:41	EPA200.7		AES

#### Total Metals by ICP

Barium	160	5.00	1.10	mg/kg dry	100	11/04/22 16:19	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	11/04/22 16:19	6010B		AES
Chromium	15.1	5.00	1.58	mg/kg dry	100	11/04/22 16:19	6010B		AES
Copper	7.92	5.00	2.83	mg/kg dry	100	11/04/22 16:19	6010B		AES
Lead	11.2	10.0	4.02	mg/kg dry	100	11/04/22 16:19	6010B		AES
Nickel	9.70	5.00	2.41	mg/kg dry	100	11/04/22 16:19	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	11/04/22 16:19	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	11/04/22 16:19	6010B		AES
Zinc	47.4	10.0	2.18	mg/kg dry	100	11/04/22 16:19	6010B		AES

#### Total Metals by ICPMS

Arsenic	3.75	1.00	0.158	mg/kg dry	1000	11/07/22 12:09	6020A		AES
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#### Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	11/08/22 16:42	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	11/08/22 03:01	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	11/08/22 03:01	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	11/08/22 03:01	8015B		MS

Surrogate: 1-Chlorooctane 80.7 % 45.3-161 11/08/22 03:01 8015B MS

Surrogate: 1-Chlorooctadecane 92.1 % 46.3-178 11/08/22 03:01 8015B MS

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Jeremy D Allen, Laboratory Director

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Project: COGCC Table 915-1  
Project Name / Number: Champlin 117 Amoco C5  
Project Manager: Jake Harter

Reported:  
11/14/22 15:00

## SS02

### 2211019-02 (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	11/08/22 17:06	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	11/08/22 17:06	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	11/08/22 17:06	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	11/08/22 17:06	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	11/08/22 17:06	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0256	mg/kg	50	11/08/22 17:06	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	11/08/22 17:06	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	11/08/22 17:06	8260B		MS
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	11/08/22 17:06	8260B		MS

Surrogate: Dibromofluoromethane 98.4 % 84.6-114 11/08/22 17:06 8260B MS

Surrogate: Toluene-d8 92.1 % 90.4-109 11/08/22 17:06 8260B MS

Surrogate: 4-Bromofluorobenzene 100 % 82.5-117 11/08/22 17:06 8260B MS

#### Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	11/08/22 12:08	8270C		MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	11/08/22 12:08	8270C		MS
1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	11/08/22 12:08	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	11/08/22 12:08	8270C		MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	11/08/22 12:08	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	11/08/22 12:08	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	11/08/22 12:08	8270C		MS
Pyrene*	<0.013	0.040	0.013	mg/kg	40	11/08/22 12:08	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	11/08/22 12:08	8270C		MS
Chrysene	<0.017	0.040	0.017	mg/kg	40	11/08/22 12:08	8270C		MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	11/08/22 12:08	8270C		MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	11/08/22 12:08	8270C		MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	11/08/22 12:08	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	11/08/22 12:08	8270C		MS
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	11/08/22 12:08	8270C		MS

Surrogate: Nitrobenzene-d5 30.2 % 39.6-121 11/08/22 12:08 8270C S-BN MS

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Jeremy D Allen, Laboratory Director

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Project: COGCC Table 915-1  
Project Name / Number: Champlin 117 Amoco C5  
Project Manager: Jake Harter

Reported:  
11/14/22 15:00

## SS02

### 2211019-02 (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

Surrogate: 2-Fluorobiphenyl	43.6 %	39.8-134				11/08/22 12:08	8270C		MS
Surrogate: Terphenyl-dl4	50.3 %	33.3-136				11/08/22 12:08	8270C		MS

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Jeremy D Allen, Laboratory Director

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Project: COGCC Table 915-1  
Project Name / Number: Champlin 117 Amoco C5  
Project Manager: Jake Harter

Reported:  
11/14/22 15:00

### 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 B223128 - General Prep - Wet Chem

##### Blank (B223128-BLK1)

Prepared & Analyzed: 11/09/22

Hexavalent Chromium	ND	0.250	mg/kg dry							
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##### LCS (B223128-BS1)

Prepared & Analyzed: 11/09/22

Hexavalent Chromium	2.55	0.250	mg/kg dry	2.50		102	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 B223106 - Paste Extract

##### Blank (B223106-BLK1)

Prepared: 11/08/22 Analyzed: 11/11/22

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

##### Reference (B223106-SRM1)

Prepared: 11/08/22 Analyzed: 11/11/22

SAR	10.7		No Unit	10.5		102	90-110			
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#### Batch B223108 - Paste Extract

##### Reference (B223108-SRM1)

Prepared & Analyzed: 11/08/22

Conductivity	7910		umho/cm@2 5C	8340		94.9	90-110			
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#### Batch B223109 - Paste Extract

##### Reference (B223109-SRM1)

Prepared & Analyzed: 11/08/22

pH	6.81		pH Units	6.93		98.3	92-108			
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Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project: COGCC Table 915-1  
Project Name / Number: Champlin 117 Amoco C5  
Project Manager: Jake Harter

Reported:  
11/14/22 15:00

### 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 B223056 - EPA 3050

##### Blank (B223056-BLK1)

Prepared: 11/03/22 Analyzed: 11/04/22

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 (B223056-BS1)

Prepared: 11/03/22 Analyzed: 11/04/22

Barium	195	5.00	mg/kg dry	200	97.4	80-120
Cadmium	181	5.00	mg/kg dry	200	90.4	80-120
Chromium	194	5.00	mg/kg dry	200	97.2	80-120
Copper	404	5.00	mg/kg dry	400	101	80-120
Lead	187	10.0	mg/kg dry	200	93.4	80-120
Nickel	186	5.00	mg/kg dry	200	92.8	80-120
Selenium	777	20.0	mg/kg dry	800	97.1	80-120
Silver	9.38	1.00	mg/kg dry	10.0	93.8	80-120
Zinc	175	10.0	mg/kg dry	200	87.3	80-120

##### LCS Dup (B223056-BSD1)

Prepared: 11/03/22 Analyzed: 11/04/22

Barium	194	5.00	mg/kg dry	200	96.9	80-120	0.545	20
Cadmium	179	5.00	mg/kg dry	200	89.6	80-120	0.842	20
Chromium	193	5.00	mg/kg dry	200	96.7	80-120	0.585	20
Copper	404	5.00	mg/kg dry	400	101	80-120	0.0828	20
Lead	184	10.0	mg/kg dry	200	92.0	80-120	1.52	20
Nickel	183	5.00	mg/kg dry	200	91.6	80-120	1.31	20
Selenium	762	20.0	mg/kg dry	800	95.3	80-120	1.92	20
Silver	9.42	1.00	mg/kg dry	10.0	94.2	80-120	0.471	20
Zinc	171	10.0	mg/kg dry	200	85.3	80-120	2.26	20

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Cottonwood Consulting  
PO Box 1653  
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Project: COGCC Table 915-1  
Project Name / Number: Champlin 117 Amoco C5  
Project Manager: Jake Harter

Reported:  
11/14/22 15:00

### 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 B223057 - EPA 3050M

##### Blank (B223057-BLK1)

Prepared: 11/03/22 Analyzed: 11/07/22

Arsenic	ND	1.00	mg/kg dry							
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##### LCS (B223057-BS1)

Prepared: 11/03/22 Analyzed: 11/07/22

Arsenic	4.58	1.00	mg/kg dry	5.00		91.7	80-120			
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##### LCS Dup (B223057-BSD1)

Prepared: 11/03/22 Analyzed: 11/07/22

Arsenic	4.89	1.00	mg/kg dry	5.00		97.8	80-120	6.45	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 B223110 - Hot Water Soluble Metals Extract

##### Blank (B223110-BLK1)

Prepared & Analyzed: 11/08/22

Boron	ND	1.20	mg/L							
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Project: COGCC Table 915-1  
Project Name / Number: Champlin 117 Amoco C5  
Project Manager: Jake Harter

Reported:  
11/14/22 15:00

### 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 2110416 - General Prep - Organics

##### Blank (2110416-BLK1)

Prepared: 11/04/22 Analyzed: 11/07/22

Surrogate: 1-Chlorooctadecane	50.5		mg/kg	50.0		101	46.3-178			
Surrogate: 1-Chlorooctane	43.9		mg/kg	50.0		87.9	45.3-161			
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 (2110416-BS1)

Prepared: 11/04/22 Analyzed: 11/07/22

Surrogate: 1-Chlorooctadecane	60.3		mg/kg	50.0		121	46.3-178			
Surrogate: 1-Chlorooctane	50.6		mg/kg	50.0		101	45.3-161			
DRO >C10-C28	228	10.0	mg/kg	200		114	74.9-127			
GRO C6-C10	205	10.0	mg/kg	200		103	76.8-124			
Total TPH C6-C28	433	10.0	mg/kg	400		108	77.5-124			

##### LCS Dup (2110416-BSD1)

Prepared: 11/04/22 Analyzed: 11/07/22

Surrogate: 1-Chlorooctadecane	63.7		mg/kg	50.0		127	46.3-178			
Surrogate: 1-Chlorooctane	51.2		mg/kg	50.0		102	45.3-161			
DRO >C10-C28	233	10.0	mg/kg	200		116	74.9-127	2.20	18.6	
GRO C6-C10	212	10.0	mg/kg	200		106	76.8-124	3.03	17.2	
Total TPH C6-C28	445	10.0	mg/kg	400		111	77.5-124	2.59	17.6	

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Durango CO, 81302

Project: COGCC Table 915-1  
Project Name / Number: Champlin 117 Amoco C5  
Project Manager: Jake Harter

Reported:  
11/14/22 15:00

**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 2110727 - Volatiles****Blank (2110727-BLK1)**

Prepared: 11/07/22 Analyzed: 11/08/22

1,2,4-Trimethylbenzene	ND	0.0250	mg/kg							
1,3,5-Trimethylbenzene	ND	0.0250	mg/kg							
Surrogate: 4-Bromofluorobenzene	1.27		mg/kg	1.25		102	82.5-117			
Benzene	ND	0.0250	mg/kg							
Surrogate: Dibromofluoromethane	1.21		mg/kg	1.25		96.7	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	1.18		mg/kg	1.25		94.3	90.4-109			
Total Xylenes	ND	0.0750	mg/kg							

**LCS (2110727-BS1)**

Prepared: 11/07/22 Analyzed: 11/08/22

1,2,4-Trimethylbenzene	0.520	0.0250	mg/kg	0.500		104	62.4-140			
1,3,5-Trimethylbenzene	0.523	0.0250	mg/kg	0.500		105	64.4-138			
Surrogate: 4-Bromofluorobenzene	1.26		mg/kg	1.25		101	82.5-117			
Benzene	0.467	0.0250	mg/kg	0.500		93.4	73-130			
Surrogate: Dibromofluoromethane	1.27		mg/kg	1.25		102	84.6-114			
Ethylbenzene	0.476	0.0250	mg/kg	0.500		95.1	75.4-127			
m+p - Xylene	0.920	0.0500	mg/kg	1.00		92.0	71.8-133			
Naphthalene	0.554	0.0250	mg/kg	0.500		111	28.7-158			
o-Xylene	0.488	0.0250	mg/kg	0.500		97.5	78.6-125			
Toluene	0.470	0.0250	mg/kg	0.500		94.1	79-122			
Surrogate: Toluene-d8	1.22		mg/kg	1.25		97.3	90.4-109			
Total Xylenes	1.41	0.0750	mg/kg	1.50		93.9	74.6-130			

**LCS Dup (2110727-BS1)**

Prepared: 11/07/22 Analyzed: 11/08/22

1,2,4-Trimethylbenzene	0.497	0.0250	mg/kg	0.500		99.4	62.4-140	4.49	38.2	
1,3,5-Trimethylbenzene	0.502	0.0250	mg/kg	0.500		100	64.4-138	3.98	39.1	
Surrogate: 4-Bromofluorobenzene	1.27		mg/kg	1.25		102	82.5-117			
Benzene	0.474	0.0250	mg/kg	0.500		94.8	73-130	1.47	17.1	
Surrogate: Dibromofluoromethane	1.24		mg/kg	1.25		99.0	84.6-114			
Ethylbenzene	0.472	0.0250	mg/kg	0.500		94.3	75.4-127	0.834	16.5	
m+p - Xylene	0.915	0.0500	mg/kg	1.00		91.5	71.8-133	0.597	19.1	
Naphthalene	0.484	0.0250	mg/kg	0.500		96.8	28.7-158	13.5	64	
o-Xylene	0.470	0.0250	mg/kg	0.500		93.9	78.6-125	3.78	13.2	
Toluene	0.456	0.0250	mg/kg	0.500		91.2	79-122	3.09	18.3	

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Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project: COGCC Table 915-1  
Project Name / Number: Champlin 117 Amoco C5  
Project Manager: Jake Harter

Reported:  
11/14/22 15:00

**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 2110727 - Volatiles (Continued)**

**LCS Dup (2110727-BSD1) (Continued)**

Prepared: 11/07/22 Analyzed: 11/08/22

Surrogate: Toluene-d8	1.18		mg/kg	1.25		94.2	90.4-109			
Total Xylenes	1.38	0.0750	mg/kg	1.50		92.3	74.6-130	1.69	16.5	

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PO Box 1653  
Durango CO, 81302

Project: COGCC Table 915-1  
Project Name / Number: Champlin 117 Amoco C5  
Project Manager: Jake Harter

Reported:  
11/14/22 15:00

**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 2102542 - SW846-3510****Blank (2102542-BLK1)**

Prepared: 10/25/22 Analyzed: 11/04/22

1-Methylnaphthalene	ND	0.040	mg/kg							
Surrogate: 2-Fluorobiphenyl	1.33		mg/kg	2.00		66.6	39.8-134			
2-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthene	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[k]fluoranthene	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	0.929		mg/kg	2.00		46.5	39.6-121			
Pyrene	ND	0.040	mg/kg							
Surrogate: Terphenyl-d14	1.55		mg/kg	2.00		77.6	33.3-136			

**LCS (2102542-BS1)**

Prepared: 10/25/22 Analyzed: 11/04/22

1-Methylnaphthalene	0.308	0.040	mg/kg	0.400		76.9	57.6-108			
Surrogate: 2-Fluorobiphenyl	1.32		mg/kg	2.00		65.8	39.8-134			
2-Methylnaphthalene	0.305	0.040	mg/kg	0.400		76.2	59-106			
Acenaphthene	0.332	0.040	mg/kg	0.400		83.0	60.9-105			
Acenaphthylene	0.309	0.040	mg/kg	0.400		77.1	57.4-107			
Anthracene	0.307	0.040	mg/kg	0.400		76.9	60.8-105			
Benzo[a]anthracene	0.290	0.040	mg/kg	0.400		72.5	56.1-121			
Benzo[a]pyrene	0.301	0.040	mg/kg	0.400		75.2	56.7-115			
Benzo[b]fluoranthene	0.140	0.040	mg/kg	0.400		35.0	45.4-128			
Benzo[g,h,i]perylene	0.318	0.040	mg/kg	0.400		79.4	56.5-107			BS2
Benzo[k]fluoranthene	0.270	0.040	mg/kg	0.400		67.4	49.6-119			
Carbazole	0.338	0.040	mg/kg	0.400		84.6	59.7-107			
Chrysene	0.298	0.040	mg/kg	0.400		74.5	12.2-190			
Dibenz[a,h]anthracene	0.305	0.040	mg/kg	0.400		76.3	59.1-111			
Fluoranthene	0.306	0.040	mg/kg	0.400		76.4	60.6-111			
Fluorene	0.297	0.040	mg/kg	0.400		74.2	59.3-108			
Indeno[1,2,3-cd]pyrene	0.319	0.040	mg/kg	0.400		79.8	53.4-116			
Naphthalene	0.303	0.040	mg/kg	0.400		75.8	56.5-106			

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Durango CO, 81302

Project: COGCC Table 915-1  
Project Name / Number: Champlin 117 Amoco C5  
Project Manager: Jake Harter

Reported:  
11/14/22 15:00

**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 2102542 - SW846-3510 (Continued)**

**LCS (2102542-BS1) (Continued)**

Prepared: 10/25/22 Analyzed: 11/04/22

Surrogate: Nitrobenzene-d5	0.986		mg/kg	2.00		49.3	39.6-121			
Phenanthrene	0.324	0.040	mg/kg	0.400		81.0	59.9-107			
Pyrene	0.326	0.040	mg/kg	0.400		81.6	51.5-122			
Surrogate: Terphenyl-d14	1.48		mg/kg	2.00		73.9	33.3-136			

**LCS Dup (2102542-BS1)**

Prepared: 10/25/22 Analyzed: 11/04/22

1-Methylnaphthalene	0.310	0.040	mg/kg	0.400		77.5	57.6-108	0.777	6.22	
Surrogate: 2-Fluorobiphenyl	1.31		mg/kg	2.00		65.4	39.8-134			
2-Methylnaphthalene	0.304	0.040	mg/kg	0.400		76.0	59-106	0.269	6.23	
Acenaphthene	0.322	0.040	mg/kg	0.400		80.6	60.9-105	2.97	8.18	
Acenaphthylene	0.311	0.040	mg/kg	0.400		77.6	57.4-107	0.636	5	
Anthracene	0.322	0.040	mg/kg	0.400		80.5	60.8-105	4.60	3.68	QR-04
Benzo[a]anthracene	0.298	0.040	mg/kg	0.400		74.4	56.1-121	2.63	9.01	
Benzo[a]pyrene	0.300	0.040	mg/kg	0.400		75.0	56.7-115	0.213	4.92	
Benzo[b]fluoranthene	0.284	0.040	mg/kg	0.400		71.1	45.4-128	68.1	7.63	QR-04
Benzo[g,h,i]perylene	0.329	0.040	mg/kg	0.400		82.3	56.5-107	3.53	12.5	
Benzo[k]fluoranthene	0.287	0.040	mg/kg	0.400		71.8	49.6-119	6.27	10.6	
Carbazole	0.347	0.040	mg/kg	0.400		86.8	59.7-107	2.66	8.65	
Chrysene	0.291	0.040	mg/kg	0.400		72.7	12.2-190	2.41	21.8	
Dibenz[a,h]anthracene	0.318	0.040	mg/kg	0.400		79.6	59.1-111	4.21	11.6	
Fluoranthene	0.308	0.040	mg/kg	0.400		77.1	60.6-111	0.922	7.54	
Fluorene	0.298	0.040	mg/kg	0.400		74.5	59.3-108	0.407	5.49	
Indeno[1,2,3-cd]pyrene	0.327	0.040	mg/kg	0.400		81.8	53.4-116	2.40	22.3	
Naphthalene	0.304	0.040	mg/kg	0.400		75.9	56.5-106	0.0626	4.56	
Surrogate: Nitrobenzene-d5	0.981		mg/kg	2.00		49.1	39.6-121			
Phenanthrene	0.329	0.040	mg/kg	0.400		82.2	59.9-107	1.44	5.21	
Pyrene	0.338	0.040	mg/kg	0.400		84.6	51.5-122	3.59	10.6	
Surrogate: Terphenyl-d14	1.52		mg/kg	2.00		75.8	33.3-136			

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Durango CO, 81302

Project: COGCC Table 915-1  
Project Name / Number: Champlin 117 Amoco C5  
Project Manager: Jake Harter

**Reported:**  
11/14/22 15:00

### Notes and Definitions

S-BN Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.

QR-04 The RPD for the BS/BSD was outside of historical limits.

BS2 Blank spike recovery below laboratory acceptance criteria. Results for analyte potentially biased low.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis  
\*Results reported on as received basis unless designated as dry.

RPD Relative Percent Difference

LCS Laboratory Control Sample (Blank Spike)

RL Report Limit

MDL Method Detection Limit

Green Analytical Laboratories

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