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08 September 2022

Emma Millar  
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 08/01/22 10:56-08/19/22 13:00. 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, reading 'Jeremy D. Allen', is written in a cursive style.

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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PO Box 1653  
Durango CO, 81302

Project: COGCC Table 915-1  
Project Name / Number: Ignacio 34-8 #3-18  
Project Manager: Kyle Siesser

**Reported:**  
09/08/22 10:27

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Ignacio 34-8 #3-18 Wellhead	2208006-01	Solid	08/01/22 10:30	08/01/22 10:56	
Background	2208290-01	Solid	08/19/22 12:25	08/19/22 13:00	

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Jeremy D Allen, Laboratory Director

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Project: COGCC Table 915-1  
Project Name / Number: Ignacio 34-8 #3-18  
Project Manager: Kyle Siesser

Reported:  
09/08/22 10:27

### Ignacio 34-8 #3-18 Wellhead

#### 2208006-01 (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	08/10/22 12:16	3060A/3500-Cr B	M5	HTB
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#### Saturated Paste Extraction

Calcium	118	0.100	0.058	mg/L	1	08/05/22 12:03	EPA200.7		AES
Conductivity	534			umho/cm@25 C	1	08/04/22 13:20	ASA#9 10-3.3		QEB
Magnesium	16.9	0.100	0.065	mg/L	1	08/05/22 12:03	EPA200.7		AES
pH	7.33			pH Units	1	08/04/22 13:20	ASA#9 10-3.2		QEB
SAR	0.43			No Unit	1	08/05/22 12:03	Calculation		AES
Sodium	19.0	1.00	0.079	mg/L	1	08/05/22 12:03	EPA200.7		AES

#### Total Metals by ICP

Barium	184	5.00	1.10	mg/kg dry	100	08/05/22 13:24	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	08/05/22 13:24	6010B		AES
Chromium	12.1	5.00	1.58	mg/kg dry	100	08/05/22 13:24	6010B		AES
Copper	10.8	10.0	2.83	mg/kg dry	100	08/05/22 13:24	6010B	B3	AES
Lead	15.4	10.0	4.02	mg/kg dry	100	08/05/22 13:24	6010B		AES
Nickel	8.53	5.00	2.41	mg/kg dry	100	08/05/22 13:24	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	08/05/22 13:24	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	08/05/22 13:24	6010B		AES
Zinc	38.2	10.0	2.18	mg/kg dry	100	08/05/22 13:24	6010B		AES

#### Total Metals by ICPMS

Arsenic	2.43	1.00	0.158	mg/kg dry	1000	08/05/22 10:57	6020A		AES
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#### Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	08/05/22 12:54	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	08/05/22 05:05	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	08/05/22 05:05	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	08/05/22 05:05	8015B		MS

Surrogate: 1-Chlorooctane	81.1 %	43-149	08/05/22 05:05	8015B	MS
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Surrogate: 1-Chlorooctadecane	94.2 %	42.5-161	08/05/22 05:05	8015B	MS
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Jeremy D Allen, Laboratory Director

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Project: COGCC Table 915-1  
Project Name / Number: Ignacio 34-8 #3-18  
Project Manager: Kyle Siesser

Reported:  
09/08/22 10:27

### Ignacio 34-8 #3-18 Wellhead

#### 2208006-01 (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	08/04/22 14:44	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	08/04/22 14:44	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	08/04/22 14:44	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	08/04/22 14:44	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	08/04/22 14:44	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0256	mg/kg	50	08/04/22 14:44	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	08/04/22 14:44	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	08/04/22 14:44	8260B		MS
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	08/04/22 14:44	8260B		MS

Surrogate: Dibromofluoromethane 97.8 % 84.6-114 08/04/22 14:44 8260B MS

Surrogate: Toluene-d8 100 % 90.4-109 08/04/22 14:44 8260B MS

Surrogate: 4-Bromofluorobenzene 96.9 % 82.5-117 08/04/22 14:44 8260B MS

#### Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	08/11/22 14:54	8270C		MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	08/11/22 14:54	8270C		MS
1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	08/11/22 14:54	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	08/11/22 14:54	8270C		MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	08/11/22 14:54	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	08/11/22 14:54	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	08/11/22 14:54	8270C		MS
Pyrene*	<0.013	0.040	0.013	mg/kg	40	08/11/22 14:54	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	08/11/22 14:54	8270C		MS
Chrysene	<0.017	0.040	0.017	mg/kg	40	08/11/22 14:54	8270C		MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	08/11/22 14:54	8270C		MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	08/11/22 14:54	8270C		MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	08/11/22 14:54	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	08/11/22 14:54	8270C		MS
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	08/11/22 14:54	8270C		MS

Surrogate: Nitrobenzene-d5 62.6 % 39.6-121 08/11/22 14:54 8270C MS

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Jeremy D Allen, Laboratory Director

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Project: COGCC Table 915-1  
Project Name / Number: Ignacio 34-8 #3-18  
Project Manager: Kyle Siesser

Reported:  
09/08/22 10:27

### Ignacio 34-8 #3-18 Wellhead

#### 2208006-01 (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	76.7 %	39.8-134				08/11/22 14:54	8270C		MS
Surrogate: Terphenyl-dl4	88.7 %	33.3-136				08/11/22 14:54	8270C		MS

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Project: COGCC Table 915-1  
Project Name / Number: Ignacio 34-8 #3-18  
Project Manager: Kyle Siesser

Reported:  
09/08/22 10:27

## Background

### 2208290-01 (Soil)

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

Hexavalent Chromium	0.764	0.250	0.128	mg/kg dry	25	08/30/22 10:26	3060A/3500-Cr B		HTB
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#### Saturated Paste Extraction

Calcium	58.7	0.100	0.058	mg/L	1	08/26/22 16:17	EPA200.7		AES
Conductivity	406			umho/cm@25 C	1	08/26/22 08:30	ASA#9 10-3.3		QEB
Magnesium	12.5	0.100	0.065	mg/L	1	08/26/22 16:17	EPA200.7		AES
pH	6.24			pH Units	1	08/26/22 08:30	ASA#9 10-3.2		QEB
SAR	0.39			No Unit	1	08/26/22 16:17	Calculation		AES
Sodium	12.5	1.00	0.079	mg/L	1	08/26/22 16:17	EPA200.7		AES

#### Total Metals by ICP

Barium	178	5.00	1.10	mg/kg dry	100	08/31/22 12:07	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	08/31/22 12:07	6010B		AES
Chromium	15.7	5.00	1.58	mg/kg dry	100	08/31/22 12:07	6010B		AES
Copper	8.53	5.00	2.83	mg/kg dry	100	08/31/22 12:07	6010B		AES
Lead	10.5	10.0	4.02	mg/kg dry	100	08/31/22 12:07	6010B		AES
Nickel	10.2	5.00	2.41	mg/kg dry	100	08/31/22 12:07	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	08/31/22 12:06	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	08/31/22 12:06	6010B		AES
Zinc	37.1	10.0	2.18	mg/kg dry	100	08/31/22 12:07	6010B		AES

#### Total Metals by ICPMS

Arsenic	3.23	1.00	0.158	mg/kg dry	1000	08/29/22 11:35	6020A		AES
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#### Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	08/24/22 17:55	EPA200.7		AES
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### Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	08/24/22 11:10	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	08/24/22 11:10	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	08/24/22 11:10	8015B		MS

Surrogate: 1-Chlorooctane	76.2 %	45.3-161	08/24/22 11:10	8015B	MS
Surrogate: 1-Chlorooctadecane	78.7 %	46.3-178	08/24/22 11:10	8015B	MS

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Jeremy D Allen, Laboratory Director

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Project: COGCC Table 915-1  
Project Name / Number: Ignacio 34-8 #3-18  
Project Manager: Kyle Siesser

Reported:  
09/08/22 10:27

## Background

### 2208290-01 (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	08/29/22 15:21	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	08/29/22 15:21	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	08/29/22 15:21	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	08/29/22 15:21	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	08/29/22 15:21	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0256	mg/kg	50	08/29/22 15:21	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	08/29/22 15:21	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	08/29/22 15:21	8260B		MS
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	08/29/22 15:21	8260B		MS
Surrogate: Dibromofluoromethane			95.1 %	84.6-114		08/29/22 15:21	8260B		MS
Surrogate: Toluene-d8			99.9 %	90.4-109		08/29/22 15:21	8260B		MS
Surrogate: 4-Bromofluorobenzene			98.2 %	82.5-117		08/29/22 15:21	8260B		MS

#### Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	08/24/22 19:17	8270C		MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	08/24/22 19:17	8270C		MS
1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	08/24/22 19:17	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	08/24/22 19:17	8270C		MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	08/24/22 19:17	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	08/24/22 19:17	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	08/24/22 19:17	8270C		MS
Pyrene*	<0.013	0.040	0.013	mg/kg	40	08/24/22 19:17	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	08/24/22 19:17	8270C		MS
Chrysene	<0.017	0.040	0.017	mg/kg	40	08/24/22 19:17	8270C		MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	08/24/22 19:17	8270C		MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	08/24/22 19:17	8270C		MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	08/24/22 19:17	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	08/24/22 19:17	8270C		MS
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	08/24/22 19:17	8270C		MS
Surrogate: Nitrobenzene-d5			99.2 %	39.6-121		08/24/22 19:17	8270C		MS

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Jeremy D Allen, Laboratory Director

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Project: COGCC Table 915-1  
Project Name / Number: Ignacio 34-8 #3-18  
Project Manager: Kyle Siesser

Reported:  
09/08/22 10:27

## Background

### 2208290-01 (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	107 %	39.8-134	08/24/22 19:17	8270C	MS
Surrogate: Terphenyl-dl4	124 %	33.3-136	08/24/22 19:17	8270C	MS

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Project: COGCC Table 915-1  
Project Name / Number: Ignacio 34-8 #3-18  
Project Manager: Kyle Siesser

Reported:  
09/08/22 10:27

### 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 B222181 - General Prep - Wet Chem

##### Blank (B222181-BLK1)

Prepared & Analyzed: 08/10/22

Hexavalent Chromium ND 0.0100 mg/kg dry

##### LCS (B222181-BS1)

Prepared & Analyzed: 08/10/22

Hexavalent Chromium 0.0889 0.0100 mg/kg dry 0.100 88.9 85-115

#### Batch B222370 - General Prep - Wet Chem

##### Blank (B222370-BLK1)

Prepared: 08/29/22 Analyzed: 08/30/22

Hexavalent Chromium ND 0.250 mg/kg dry

##### LCS (B222370-BS1)

Prepared: 08/29/22 Analyzed: 08/30/22

Hexavalent Chromium 2.38 0.250 mg/kg dry 2.50 95.1 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 B222102 - Paste Extract

##### Blank (B222102-BLK1)

Prepared: 08/03/22 Analyzed: 08/05/22

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

##### Reference (B222102-SRM1)

Prepared: 08/03/22 Analyzed: 08/05/22

SAR 9.54 No Unit 10.5 90.7 90-110

#### Batch B222103 - Paste Extract

##### Reference (B222103-SRM1)

Prepared & Analyzed: 08/04/22

Conductivity 9090 umho/cm@2 8340 109 90-110  
5C

#### Batch B222104 - Paste Extract

##### Reference (B222104-SRM1)

Prepared & Analyzed: 08/04/22

pH 6.89 pH Units 6.93 99.4 92-108

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Project: COGCC Table 915-1  
Project Name / Number: Ignacio 34-8 #3-18  
Project Manager: Kyle Siesser

Reported:  
09/08/22 10:27

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch B222325 - Paste Extract**

**Reference (B222325-SRM1)**

Prepared: 08/25/22 Analyzed: 08/26/22

pH	6.89		pH Units	6.93		99.4	92-108		
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**Batch B222326 - Paste Extract**

**Blank (B222326-BLK1)**

Prepared: 08/24/22 Analyzed: 08/26/22

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

**Reference (B222326-SRM1)**

Prepared: 08/24/22 Analyzed: 08/26/22

SAR	11.4		No Unit	10.5		109	90-110		
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**Batch B222327 - Paste Extract**

**Reference (B222327-SRM1)**

Prepared: 08/25/22 Analyzed: 08/26/22

Conductivity	8970		umho/cm@2 5C	8340		108	90-110		
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Project: COGCC Table 915-1  
Project Name / Number: Ignacio 34-8 #3-18  
Project Manager: Kyle Siesser

Reported:  
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### 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 B222109 - EPA 3050

##### Blank (B222109-BLK1)

Prepared: 08/03/22 Analyzed: 08/05/22

Barium	ND	5.00	mg/kg dry							
Cadmium	ND	5.00	mg/kg dry							
Chromium	ND	5.00	mg/kg dry							
Copper	5.18	5.00	mg/kg dry							B3
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 (B222109-BS1)

Prepared: 08/03/22 Analyzed: 08/05/22

Barium	189	5.00	mg/kg dry	200	94.5	80-120		
Cadmium	175	5.00	mg/kg dry	200	87.5	80-120		
Chromium	190	5.00	mg/kg dry	200	95.1	80-120		
Copper	396	5.00	mg/kg dry	400	98.9	80-120		
Lead	182	10.0	mg/kg dry	200	91.1	80-120		
Nickel	182	5.00	mg/kg dry	200	91.0	80-120		
Selenium	762	20.0	mg/kg dry	800	95.2	80-120		
Silver	9.97	1.00	mg/kg dry	10.0	99.7	80-120		
Zinc	170	10.0	mg/kg dry	200	85.0	80-120		

##### LCS Dup (B222109-BSD1)

Prepared: 08/03/22 Analyzed: 08/05/22

Barium	193	5.00	mg/kg dry	200	96.5	80-120	2.12	20
Cadmium	178	5.00	mg/kg dry	200	89.1	80-120	1.77	20
Chromium	195	5.00	mg/kg dry	200	97.3	80-120	2.26	20
Copper	404	5.00	mg/kg dry	400	101	80-120	2.02	20
Lead	183	10.0	mg/kg dry	200	91.7	80-120	0.619	20
Nickel	183	5.00	mg/kg dry	200	91.7	80-120	0.762	20
Selenium	784	20.0	mg/kg dry	800	98.0	80-120	2.88	20
Silver	9.65	1.00	mg/kg dry	10.0	96.5	80-120	3.22	20
Zinc	171	10.0	mg/kg dry	200	85.4	80-120	0.451	20

#### Batch B222360 - EPA 3050

##### Blank (B222360-BLK1)

Prepared: 08/29/22 Analyzed: 08/31/22

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					

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Project: COGCC Table 915-1  
Project Name / Number: Ignacio 34-8 #3-18  
Project Manager: Kyle Siesser

Reported:  
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**Total Metals by ICP - Quality Control  
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B222360 - EPA 3050 (Continued)**

**Blank (B222360-BLK1) (Continued)**

Prepared: 08/29/22 Analyzed: 08/31/22

Selenium	ND	20.0	mg/kg dry							
Silver	ND	1.00	mg/kg dry							
Zinc	ND	10.0	mg/kg dry							

**LCS (B222360-BS1)**

Prepared: 08/29/22 Analyzed: 08/31/22

Barium	189	5.00	mg/kg dry	200		94.3	80-120			
Cadmium	177	5.00	mg/kg dry	200		88.5	80-120			
Chromium	190	5.00	mg/kg dry	200		95.2	80-120			
Copper	388	5.00	mg/kg dry	400		97.1	80-120			
Lead	180	10.0	mg/kg dry	200		89.9	80-120			
Nickel	180	5.00	mg/kg dry	200		90.2	80-120			
Selenium	783	20.0	mg/kg dry	800		97.9	80-120			
Silver	9.10	1.00	mg/kg dry	10.0		91.0	80-120			
Zinc	170	10.0	mg/kg dry	200		84.9	80-120			

**LCS Dup (B222360-BSD1)**

Prepared: 08/29/22 Analyzed: 08/31/22

Barium	191	5.00	mg/kg dry	200		95.7	80-120	1.53	20	
Cadmium	178	5.00	mg/kg dry	200		88.8	80-120	0.268	20	
Chromium	194	5.00	mg/kg dry	200		96.9	80-120	1.80	20	
Copper	395	5.00	mg/kg dry	400		98.8	80-120	1.78	20	
Lead	181	10.0	mg/kg dry	200		90.6	80-120	0.802	20	
Nickel	182	5.00	mg/kg dry	200		91.0	80-120	0.894	20	
Selenium	778	20.0	mg/kg dry	800		97.2	80-120	0.651	20	
Silver	9.12	1.00	mg/kg dry	10.0		91.2	80-120	0.324	20	
Zinc	170	10.0	mg/kg dry	200		84.8	80-120	0.0540	20	

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Project: COGCC Table 915-1  
Project Name / Number: Ignacio 34-8 #3-18  
Project Manager: Kyle Siesser

Reported:  
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### Total Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B222129 - EPA 3050M

##### Blank (B222129-BLK1)

Prepared: 08/04/22 Analyzed: 08/05/22

Arsenic	ND	0.100	mg/kg dry							
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##### LCS (B222129-BS1)

Prepared: 08/04/22 Analyzed: 08/05/22

Arsenic	5.30	0.100	mg/kg dry	5.00		106	80-120			
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##### LCS Dup (B222129-BSD1)

Prepared: 08/04/22 Analyzed: 08/05/22

Arsenic	5.18	0.100	mg/kg dry	5.00		104	80-120	2.32	20	
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#### Batch B222279 - EPA 3050M

##### Blank (B222279-BLK1)

Prepared: 08/22/22 Analyzed: 08/29/22

Arsenic	ND	0.100	mg/kg dry							
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##### LCS (B222279-BS1)

Prepared: 08/22/22 Analyzed: 08/29/22

Arsenic	4.55	0.100	mg/kg dry	5.00		91.0	80-120			
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##### LCS Dup (B222279-BSD1)

Prepared: 08/22/22 Analyzed: 08/29/22

Arsenic	4.40	0.100	mg/kg dry	5.00		88.0	80-120	3.36	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 B222101 - Hot Water Soluble Metals Extract

##### Blank (B222101-BLK1)

Prepared: 08/03/22 Analyzed: 08/05/22

Boron	ND	1.20	mg/L							
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#### Batch B222310 - Hot Water Soluble Metals Extract

##### Blank (B222310-BLK1)

Prepared: 08/23/22 Analyzed: 08/24/22

Boron	ND	1.20	mg/L							
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Project: COGCC Table 915-1  
Project Name / Number: Ignacio 34-8 #3-18  
Project Manager: Kyle Siesser

Reported:  
09/08/22 10:27

### 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 2080409 - General Prep - Organics

##### Blank (2080409-BLK1)

Prepared: 08/04/22 Analyzed: 08/05/22

Surrogate: 1-Chlorooctadecane	48.7		mg/kg	50.0		97.5	42.5-161			
Surrogate: 1-Chlorooctane	41.9		mg/kg	50.0		83.8	43-149			
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 (2080409-BS1)

Prepared: 08/04/22 Analyzed: 08/05/22

Surrogate: 1-Chlorooctadecane	54.9		mg/kg	50.0		110	42.5-161			
Surrogate: 1-Chlorooctane	45.6		mg/kg	50.0		91.2	43-149			
DRO >C10-C28	208	10.0	mg/kg	200		104	75.8-135			
GRO C6-C10	215	10.0	mg/kg	200		107	78.5-128			
Total TPH C6-C28	423	10.0	mg/kg	400		106	81.5-127			

##### LCS Dup (2080409-BSD1)

Prepared: 08/04/22 Analyzed: 08/05/22

Surrogate: 1-Chlorooctadecane	56.5		mg/kg	50.0		113	42.5-161			
Surrogate: 1-Chlorooctane	49.3		mg/kg	50.0		98.7	43-149			
DRO >C10-C28	189	10.0	mg/kg	200		94.4	75.8-135	9.54	17.9	
GRO C6-C10	205	10.0	mg/kg	200		102	78.5-128	4.90	21.4	
Total TPH C6-C28	394	10.0	mg/kg	400		98.4	81.5-127	7.15	17.6	

#### Batch 2082404 - General Prep - Organics

##### Blank (2082404-BLK1)

Prepared & Analyzed: 08/24/22

Surrogate: 1-Chlorooctadecane	45.9		mg/kg	50.0		91.8	46.3-178			
Surrogate: 1-Chlorooctane	45.1		mg/kg	50.0		90.2	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 (2082404-BS1)

Prepared & Analyzed: 08/24/22

Surrogate: 1-Chlorooctadecane	49.3		mg/kg	50.0		98.6	46.3-178			
Surrogate: 1-Chlorooctane	49.5		mg/kg	50.0		99.0	45.3-161			
DRO >C10-C28	183	10.0	mg/kg	200		91.3	74.3-129			
GRO C6-C10	196	10.0	mg/kg	200		98.0	76.9-124			
Total TPH C6-C28	379	10.0	mg/kg	400		94.7	81.5-127			

##### LCS Dup (2082404-BSD1)

Prepared & Analyzed: 08/24/22

Surrogate: 1-Chlorooctadecane	51.1		mg/kg	50.0		102	46.3-178			
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Project: COGCC Table 915-1  
Project Name / Number: Ignacio 34-8 #3-18  
Project Manager: Kyle Siesser

Reported:  
09/08/22 10:27

**Petroleum Hydrocarbons by GC FID - Quality Control**  
**(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2082404 - General Prep - Organics (Continued)**

**LCS Dup (2082404-BSD1) (Continued)**

Prepared & Analyzed: 08/24/22

Surrogate: 1-Chlorooctane	48.0		mg/kg	50.0		96.0	45.3-161			
DRO >C10-C28	184	10.0	mg/kg	200		91.9	74.3-129	0.702	18.6	
GRO C6-C10	195	10.0	mg/kg	200		97.4	76.9-124	0.680	17.2	
Total TPH C6-C28	379	10.0	mg/kg	400		94.7	81.5-127	0.0111	17.6	

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Project Name / Number: Ignacio 34-8 #3-18  
Project Manager: Kyle Siesser

Reported:  
09/08/22 10:27

**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 2080324 - Volatiles****Blank (2080324-BLK1)**

Prepared: 08/03/22 Analyzed: 08/04/22

1,2,4-Trimethylbenzene	ND	0.0250	mg/kg						
1,3,5-Trimethylbenzene	ND	0.0250	mg/kg						
Surrogate: 4-Bromofluorobenzene	1.19		mg/kg	1.25		95.6	82.5-117		
Benzene	ND	0.0250	mg/kg						
Surrogate: Dibromofluoromethane	1.21		mg/kg	1.25		96.9	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	1.23		mg/kg	1.25		98.3	90.4-109		
Total Xylenes	ND	0.0750	mg/kg						

**LCS (2080324-BS1)**

Prepared: 08/03/22 Analyzed: 08/04/22

1,2,4-Trimethylbenzene	0.476	0.0250	mg/kg	0.500		95.1	62.4-140		
1,3,5-Trimethylbenzene	0.488	0.0250	mg/kg	0.500		97.5	64.4-138		
Surrogate: 4-Bromofluorobenzene	1.24		mg/kg	1.25		98.8	82.5-117		
Benzene	0.460	0.0250	mg/kg	0.500		92.0	73-130		
Surrogate: Dibromofluoromethane	1.26		mg/kg	1.25		100	84.6-114		
Ethylbenzene	0.463	0.0250	mg/kg	0.500		92.5	75.4-127		
m+p - Xylene	0.953	0.0500	mg/kg	1.00		95.3	71.8-133		
Naphthalene	0.470	0.0250	mg/kg	0.500		94.1	28.7-158		
o-Xylene	0.461	0.0250	mg/kg	0.500		92.2	78.6-125		
Toluene	0.452	0.0250	mg/kg	0.500		90.5	79-122		
Surrogate: Toluene-d8	1.24		mg/kg	1.25		99.1	90.4-109		
Total Xylenes	1.41	0.0750	mg/kg	1.50		94.3	74.6-130		

**LCS Dup (2080324-BS1)**

Prepared: 08/03/22 Analyzed: 08/04/22

1,2,4-Trimethylbenzene	0.463	0.0250	mg/kg	0.500		92.5	62.4-140	2.74	38.2
1,3,5-Trimethylbenzene	0.466	0.0250	mg/kg	0.500		93.3	64.4-138	4.49	39.1
Surrogate: 4-Bromofluorobenzene	1.22		mg/kg	1.25		97.5	82.5-117		
Benzene	0.457	0.0250	mg/kg	0.500		91.4	73-130	0.632	17.1
Surrogate: Dibromofluoromethane	1.25		mg/kg	1.25		100	84.6-114		
Ethylbenzene	0.457	0.0250	mg/kg	0.500		91.3	75.4-127	1.33	16.5
m+p - Xylene	0.941	0.0500	mg/kg	1.00		94.1	71.8-133	1.35	19.1
Naphthalene	0.441	0.0250	mg/kg	0.500		88.2	28.7-158	6.47	64
o-Xylene	0.455	0.0250	mg/kg	0.500		91.0	78.6-125	1.31	13.2
Toluene	0.447	0.0250	mg/kg	0.500		89.5	79-122	1.11	18.3

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Project: COGCC Table 915-1  
Project Name / Number: Ignacio 34-8 #3-18  
Project Manager: Kyle Siesser

Reported:  
09/08/22 10:27

**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 2080324 - Volatiles (Continued)**

**LCS Dup (2080324-BSD1) (Continued)**

Prepared: 08/03/22 Analyzed: 08/04/22

Surrogate: Toluene-d8	1.22		mg/kg	1.25		97.9	90.4-109			
Total Xylenes	1.40	0.0750	mg/kg	1.50		93.0	74.6-130	1.34	16.5	

**Batch 2082916 - Volatiles**

**Blank (2082916-BLK1)**

Prepared & Analyzed: 08/29/22

1,2,4-Trimethylbenzene	ND	0.0250	mg/kg							
1,3,5-Trimethylbenzene	ND	0.0250	mg/kg							
Surrogate: 4-Bromofluorobenzene	1.23		mg/kg	1.25		98.8	82.5-117			
Benzene	ND	0.0250	mg/kg							
Surrogate: Dibromofluoromethane	1.20		mg/kg	1.25		96.0	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	1.25		mg/kg	1.25		100	90.4-109			
Total Xylenes	ND	0.0750	mg/kg							

**LCS (2082916-BS1)**

Prepared & Analyzed: 08/29/22

1,2,4-Trimethylbenzene	0.531	0.0250	mg/kg	0.500		106	62.4-140			
1,3,5-Trimethylbenzene	0.528	0.0250	mg/kg	0.500		106	64.4-138			
Surrogate: 4-Bromofluorobenzene	1.24		mg/kg	1.25		99.3	82.5-117			
Benzene	0.527	0.0250	mg/kg	0.500		105	73-130			
Surrogate: Dibromofluoromethane	1.23		mg/kg	1.25		98.6	84.6-114			
Ethylbenzene	0.533	0.0250	mg/kg	0.500		107	75.4-127			
m+p - Xylene	1.04	0.0500	mg/kg	1.00		104	71.8-133			
Naphthalene	0.538	0.0250	mg/kg	0.500		108	28.7-158			
o-Xylene	0.523	0.0250	mg/kg	0.500		105	78.6-125			
Toluene	0.519	0.0250	mg/kg	0.500		104	79-122			
Surrogate: Toluene-d8	1.25		mg/kg	1.25		100	90.4-109			
Total Xylenes	1.56	0.0750	mg/kg	1.50		104	74.6-130			

**LCS Dup (2082916-BSD1)**

Prepared & Analyzed: 08/29/22

1,2,4-Trimethylbenzene	0.509	0.0250	mg/kg	0.500		102	62.4-140	4.15	38.2	
1,3,5-Trimethylbenzene	0.515	0.0250	mg/kg	0.500		103	64.4-138	2.44	39.1	
Surrogate: 4-Bromofluorobenzene	1.25		mg/kg	1.25		100	82.5-117			
Benzene	0.515	0.0250	mg/kg	0.500		103	73-130	2.45	17.1	

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Jeremy D Allen, Laboratory Director

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Project: COGCC Table 915-1  
Project Name / Number: Ignacio 34-8 #3-18  
Project Manager: Kyle Siesser

Reported:  
09/08/22 10:27

**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 2082916 - Volatiles (Continued)**

**LCS Dup (2082916-BSD1) (Continued)**

Prepared & Analyzed: 08/29/22

Surrogate: Dibromofluoromethane	1.23		mg/kg	1.25		98.7	84.6-114			
Ethylbenzene	0.519	0.0250	mg/kg	0.500		104	75.4-127	2.64	16.5	
m+p - Xylene	1.02	0.0500	mg/kg	1.00		102	71.8-133	0.985	19.1	
Naphthalene	0.502	0.0250	mg/kg	0.500		100	28.7-158	6.80	64	
o-Xylene	0.510	0.0250	mg/kg	0.500		102	78.6-125	2.57	13.2	
Toluene	0.502	0.0250	mg/kg	0.500		100	79-122	3.28	18.3	
Surrogate: Toluene-d8	1.26		mg/kg	1.25		100	90.4-109			
Total Xylenes	1.53	0.0750	mg/kg	1.50		102	74.6-130	1.51	16.5	

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Durango CO, 81302

Project: COGCC Table 915-1  
Project Name / Number: Ignacio 34-8 #3-18  
Project Manager: Kyle Siesser

Reported:  
09/08/22 10:27

### Polynuclear Aromatic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 2080212 - SW-846 3550

##### Blank (2080212-BLK1)

Prepared: 08/02/22 Analyzed: 08/11/22

1-Methylnaphthalene	ND	0.040	mg/kg						
Surrogate: 2-Fluorobiphenyl	1.51		mg/kg	2.00		75.4	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	1.28		mg/kg	2.00		63.9	39.6-121		
Pyrene	ND	0.040	mg/kg						
Surrogate: Terphenyl-d14	1.52		mg/kg	2.00		76.1	33.3-136		

##### LCS (2080212-BS1)

Prepared: 08/02/22 Analyzed: 08/11/22

1-Methylnaphthalene	0.334	0.040	mg/kg	0.400		83.4	57.6-108		
Surrogate: 2-Fluorobiphenyl	2.44		mg/kg	2.00		122	39.8-134		
2-Methylnaphthalene	0.333	0.040	mg/kg	0.400		83.2	59-106		
Acenaphthene	0.339	0.040	mg/kg	0.400		84.8	60.9-105		
Acenaphthylene	0.343	0.040	mg/kg	0.400		85.6	57.4-107		
Anthracene	0.348	0.040	mg/kg	0.400		87.1	60.8-105		
Benzo[a]anthracene	0.348	0.040	mg/kg	0.400		87.0	56.1-121		
Benzo[a]pyrene	0.347	0.040	mg/kg	0.400		86.8	56.7-115		
Benzo[b]fluoranthene	0.190	0.040	mg/kg	0.400		47.5	45.4-128		
Benzo[g,h,i]perylene	0.371	0.040	mg/kg	0.400		92.8	56.5-107		
Benzo[k]fluoranthene	0.291	0.040	mg/kg	0.400		72.9	49.6-119		
Carbazole	0.358	0.040	mg/kg	0.400		89.5	59.7-107		
Chrysene	0.361	0.040	mg/kg	0.400		90.2	12.2-190		
Dibenz[a,h]anthracene	0.355	0.040	mg/kg	0.400		88.8	59.1-111		
Fluoranthene	0.323	0.040	mg/kg	0.400		80.7	60.6-111		
Fluorene	0.345	0.040	mg/kg	0.400		86.1	59.3-108		
Indeno[1,2,3-cd]pyrene	0.334	0.040	mg/kg	0.400		83.5	53.4-116		
Naphthalene	0.345	0.040	mg/kg	0.400		86.3	56.5-106		

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PO Box 1653  
Durango CO, 81302

Project: COGCC Table 915-1  
Project Name / Number: Ignacio 34-8 #3-18  
Project Manager: Kyle Siesser

Reported:  
09/08/22 10:27

**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 2080212 - SW-846 3550 (Continued)**

**LCS (2080212-BS1) (Continued)**

Prepared: 08/02/22 Analyzed: 08/11/22

Surrogate: Nitrobenzene-d5	2.07		mg/kg	2.00		103	39.6-121			
Phenanthrene	0.355	0.040	mg/kg	0.400		88.8	59.9-107			
Pyrene	0.357	0.040	mg/kg	0.400		89.2	51.5-122			
Surrogate: Terphenyl-d14	2.58		mg/kg	2.00		129	33.3-136			

**LCS Dup (2080212-BS1)**

Prepared: 08/02/22 Analyzed: 08/11/22

1-Methylnaphthalene	0.342	0.040	mg/kg	0.400		85.4	57.6-108	2.44	6.22	
Surrogate: 2-Fluorobiphenyl	2.40		mg/kg	2.00		120	39.8-134			
2-Methylnaphthalene	0.343	0.040	mg/kg	0.400		85.9	59-106	3.10	6.23	
Acenaphthene	0.346	0.040	mg/kg	0.400		86.5	60.9-105	2.01	8.18	
Acenaphthylene	0.342	0.040	mg/kg	0.400		85.6	57.4-107	0.0409	5	
Anthracene	0.347	0.040	mg/kg	0.400		86.9	60.8-105	0.293	3.68	
Benzo[a]anthracene	0.348	0.040	mg/kg	0.400		87.0	56.1-121	0.0575	9.01	
Benzo[a]pyrene	0.341	0.040	mg/kg	0.400		85.1	56.7-115	1.96	4.92	
Benzo[b]fluoranthene	0.344	0.040	mg/kg	0.400		86.0	45.4-128	57.6	7.63	QR-04
Benzo[g,h,i]perylene	0.376	0.040	mg/kg	0.400		94.1	56.5-107	1.41	12.5	
Benzo[k]fluoranthene	0.334	0.040	mg/kg	0.400		83.5	49.6-119	13.6	10.6	QR-04
Carbazole	0.367	0.040	mg/kg	0.400		91.8	59.7-107	2.48	8.65	
Chrysene	0.366	0.040	mg/kg	0.400		91.4	12.2-190	1.30	21.8	
Dibenz[a,h]anthracene	0.353	0.040	mg/kg	0.400		88.2	59.1-111	0.715	11.6	
Fluoranthene	0.317	0.040	mg/kg	0.400		79.3	60.6-111	1.84	7.54	
Fluorene	0.338	0.040	mg/kg	0.400		84.5	59.3-108	1.95	5.49	
Indeno[1,2,3-cd]pyrene	0.314	0.040	mg/kg	0.400		78.5	53.4-116	6.21	22.3	
Naphthalene	0.351	0.040	mg/kg	0.400		87.7	56.5-106	1.60	4.56	
Surrogate: Nitrobenzene-d5	2.03		mg/kg	2.00		102	39.6-121			
Phenanthrene	0.341	0.040	mg/kg	0.400		85.2	59.9-107	4.13	5.21	
Pyrene	0.358	0.040	mg/kg	0.400		89.6	51.5-122	0.425	10.6	
Surrogate: Terphenyl-d14	2.56		mg/kg	2.00		128	33.3-136			

**Batch 2081508 - SW846-3510**

**Blank (2081508-BLK1)**

Prepared: 08/15/22 Analyzed: 08/23/22

1-Methylnaphthalene	ND	0.040	mg/kg							
Surrogate: 2-Fluorobiphenyl	1.10		mg/kg	2.00		54.9	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							

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Durango CO, 81302

Project: COGCC Table 915-1  
Project Name / Number: Ignacio 34-8 #3-18  
Project Manager: Kyle Siesser

Reported:  
09/08/22 10:27

**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 2081508 - SW846-3510 (Continued)**

**Blank (2081508-BLK1) (Continued)**

Prepared: 08/15/22 Analyzed: 08/23/22

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	0.976		mg/kg	2.00		48.8	39.6-121			
Pyrene	ND	0.040	mg/kg							
Surrogate: Terphenyl-dl4	1.11		mg/kg	2.00		55.7	33.3-136			

**LCS (2081508-BS1)**

Prepared: 08/15/22 Analyzed: 08/24/22

1-Methylnaphthalene	0.337	0.040	mg/kg	0.400		84.3	57.6-108			
Surrogate: 2-Fluorobiphenyl	1.56		mg/kg	2.00		77.8	39.8-134			
2-Methylnaphthalene	0.343	0.040	mg/kg	0.400		85.7	59-106			
Acenaphthene	0.306	0.040	mg/kg	0.400		76.6	60.9-105			
Acenaphthylene	0.327	0.040	mg/kg	0.400		81.6	57.4-107			
Anthracene	0.328	0.040	mg/kg	0.400		82.0	60.8-105			
Benzo[a]anthracene	0.368	0.040	mg/kg	0.400		91.9	56.1-121			
Benzo[a]pyrene	0.344	0.040	mg/kg	0.400		86.0	56.7-115			
Benzo[b]fluoranthene	0.365	0.040	mg/kg	0.400		91.2	45.4-128			
Benzo[g,h,i]perylene	0.360	0.040	mg/kg	0.400		89.9	56.5-107			
Benzo[k]fluoranthene	0.353	0.040	mg/kg	0.400		88.3	49.6-119			
Carbazole	0.347	0.040	mg/kg	0.400		86.7	59.7-107			
Chrysene	0.372	0.040	mg/kg	0.400		93.1	12.2-190			
Dibenz[a,h]anthracene	0.363	0.040	mg/kg	0.400		90.8	59.1-111			
Fluoranthene	0.331	0.040	mg/kg	0.400		82.7	60.6-111			
Fluorene	0.359	0.040	mg/kg	0.400		89.8	59.3-108			
Indeno[1,2,3-cd]pyrene	0.325	0.040	mg/kg	0.400		81.2	53.4-116			
Naphthalene	0.332	0.040	mg/kg	0.400		83.1	56.5-106			

Surrogate: Nitrobenzene-d5	1.09		mg/kg	2.00		54.4	39.6-121			
Phenanthrene	0.332	0.040	mg/kg	0.400		83.1	59.9-107			
Pyrene	0.431	0.040	mg/kg	0.400		108	51.5-122			
Surrogate: Terphenyl-dl4	2.35		mg/kg	2.00		117	33.3-136			

**LCS Dup (2081508-BS1)**

Prepared: 08/15/22 Analyzed: 08/24/22

1-Methylnaphthalene	0.350	0.040	mg/kg	0.400		87.6	57.6-108	3.83	6.22	
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Durango CO, 81302

Project: COGCC Table 915-1  
Project Name / Number: Ignacio 34-8 #3-18  
Project Manager: Kyle Siesser

Reported:  
09/08/22 10:27

**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 2081508 - SW846-3510 (Continued)**

**LCS Dup (2081508-BSD1) (Continued)**

Prepared: 08/15/22 Analyzed: 08/24/22

Surrogate: 2-Fluorobiphenyl	1.53		mg/kg	2.00		76.3	39.8-134			
2-Methylnaphthalene	0.350	0.040	mg/kg	0.400		87.4	59-106	1.94	6.23	
Acenaphthene	0.326	0.040	mg/kg	0.400		81.4	60.9-105	6.12	8.18	
Acenaphthylene	0.324	0.040	mg/kg	0.400		80.9	57.4-107	0.867	5	
Anthracene	0.323	0.040	mg/kg	0.400		80.8	60.8-105	1.41	3.68	
Benzo[a]anthracene	0.368	0.040	mg/kg	0.400		92.0	56.1-121	0.0788	9.01	
Benzo[a]pyrene	0.346	0.040	mg/kg	0.400		86.5	56.7-115	0.626	4.92	
Benzo[b]fluoranthene	0.362	0.040	mg/kg	0.400		90.5	45.4-128	0.680	7.63	
Benzo[g,h,i]perylene	0.352	0.040	mg/kg	0.400		88.0	56.5-107	2.15	12.5	
Benzo[k]fluoranthene	0.359	0.040	mg/kg	0.400		89.8	49.6-119	1.68	10.6	
Carbazole	0.343	0.040	mg/kg	0.400		85.9	59.7-107	0.974	8.65	
Chrysene	0.385	0.040	mg/kg	0.400		96.1	12.2-190	3.25	21.8	
Dibenz[a,h]anthracene	0.356	0.040	mg/kg	0.400		88.9	59.1-111	2.11	11.6	
Fluoranthene	0.336	0.040	mg/kg	0.400		84.0	60.6-111	1.65	7.54	
Fluorene	0.353	0.040	mg/kg	0.400		88.1	59.3-108	1.91	5.49	
Indeno[1,2,3-cd]pyrene	0.327	0.040	mg/kg	0.400		81.6	53.4-116	0.485	22.3	
Naphthalene	0.323	0.040	mg/kg	0.400		80.7	56.5-106	2.96	4.56	
Surrogate: Nitrobenzene-d5	1.09		mg/kg	2.00		54.3	39.6-121			
Phenanthrene	0.331	0.040	mg/kg	0.400		82.8	59.9-107	0.250	5.21	
Pyrene	0.443	0.040	mg/kg	0.400		111	51.5-122	2.62	10.6	
Surrogate: Terphenyl-d14	2.33		mg/kg	2.00		117	33.3-136			

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Project: COGCC Table 915-1  
Project Name / Number: Ignacio 34-8 #3-18  
Project Manager: Kyle Siesser

**Reported:**  
09/08/22 10:27

### Notes and Definitions

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.

B3 Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.

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

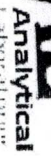
MDL Method Detection Limit

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Jeremy D Allen, Laboratory Director

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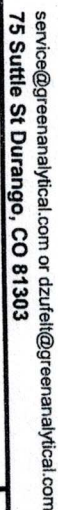


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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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