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29 August 2023

Kyle Siesser
Cottonwood Consulting
PO Box 1653
Durango, CO 81302
RE: DIA 35-11

Enclosed are the results of analyses for samples received by the laboratory on 08/14/23 16:23. 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: T104704514-23-17

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: T104704398-23-16



Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: DIA 35-11	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	08/29/23 13:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS01	2308249-01	Solid	08/11/23 09:40	08/14/23 16:23	

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Jeremy D Allen, Laboratory Director

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: DIA 35-11 Project Manager: Kyle Siesser	Reported: 08/29/23 13:35
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SS01

2308249-01 (Soil)

Sampled Date: 08/11/23 09:40

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

Hexavalent Chromium	<0.250	0.250	0.191	mg/kg dry	25	08/28/23 17:02	3060A/3500-Cr B		CAI
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Saturated Paste Extraction

Calcium	53.1	0.100	0.058	mg/L	1	08/22/23 18:37	EPA200.7		AES
Conductivity	292			umho/cm@25 C	1	08/18/23 14:00	ASA#9 10-3.3		QEB
Magnesium	7.45	0.100	0.065	mg/L	1	08/22/23 18:38	EPA200.7		AES
pH	7.86			pH Units	1	08/18/23 11:30	ASA#9 10-3.2		QEB
SAR	1.49			No Unit	1	08/22/23 18:37	Calculation		AES
Sodium	43.8	1.00	0.079	mg/L	1	08/22/23 18:37	EPA200.7		AES

Total Metals by ICP

Barium	163	5.00	0.942	mg/kg dry	100	08/25/23 16:03	6010B		AES
Cadmium	<5.00	5.00	1.29	mg/kg dry	100	08/25/23 16:03	6010B	SD2	AES
Chromium	14.1	5.00	4.53	mg/kg dry	100	08/25/23 16:03	6010B		AES
Copper	22.2	10.0	4.61	mg/kg dry	100	08/25/23 16:03	6010B		AES
Lead	<10.0	10.0	1.88	mg/kg dry	100	08/25/23 16:03	6010B	SD2	AES
Nickel	7.73	5.00	1.41	mg/kg dry	100	08/25/23 16:03	6010B	SD2	AES
Selenium	<20.0	20.0	9.47	mg/kg dry	100	08/25/23 16:03	6010B	SD2	AES
Silver	<1.00	1.00	0.460	mg/kg dry	100	08/25/23 16:03	6010B		AES
Zinc	33.4	10.0	1.24	mg/kg dry	100	08/25/23 16:03	6010B	SD2	AES

Total Metals by ICPMS

Arsenic	2.33	1.00	0.158	mg/kg dry	1000	08/25/23 10:20	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	08/22/23 19:11	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	08/16/23 23:15	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	08/16/23 23:15	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	08/16/23 23:15	8015B		MS

Surrogate: 1-Chlorooctane	94.9 %	48.2-134				08/16/23 23:15	8015B		MS
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Durango CO, 81302	Project Manager: Kyle Siesser	08/29/23 13:35

SS01

2308249-01 (Soil)

Sampled Date: 08/11/23 09:40

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

Surrogate: 1-Chlorooctadecane	104 %	49.1-148				08/16/23 23:15	8015B		MS
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VOLATILES BY GC/MS

Benzene*	<0.00885	0.0250	0.00885	mg/kg	50	08/16/23 17:48	8260B		MS
Toluene*	<0.00670	0.0250	0.00670	mg/kg	50	08/16/23 17:48	8260B		MS
Ethylbenzene*	<0.00405	0.0250	0.00405	mg/kg	50	08/16/23 17:48	8260B		MS
m+p - Xylene*	0.0306	0.0500	0.0186	mg/kg	50	08/16/23 17:48	8260B	J	MS
o-Xylene*	0.0172	0.0250	0.00700	mg/kg	50	08/16/23 17:48	8260B	J	MS
Total Xylenes*	0.0478	0.0750	0.0256	mg/kg	50	08/16/23 17:48	8260B	J	MS
1,3,5-Trimethylbenzene	0.0131	0.0250	0.00450	mg/kg	50	08/16/23 17:48	8260B	J	MS
1,2,4-Trimethylbenzene	0.0164	0.0250	0.00650	mg/kg	50	08/16/23 17:48	8260B	J	MS
Naphthalene*	0.00574	0.0250	0.00500	mg/kg	50	08/16/23 17:48	8260B	J	MS

Surrogate: Dibromofluoromethane	102 %	84.6-114				08/16/23 17:48	8260B		MS
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Surrogate: Toluene-d8	104 %	90.4-109				08/16/23 17:48	8260B		MS
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Surrogate: 4-Bromofluorobenzene	90.3 %	82.5-117				08/16/23 17:48	8260B		MS
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Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	08/23/23 15:53	8270C		MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	08/23/23 15:53	8270C		MS
1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	08/23/23 15:53	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	08/23/23 15:53	8270C		MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	08/23/23 15:53	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	08/23/23 15:53	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	08/23/23 15:53	8270C		MS
Pyrene*	<0.013	0.040	0.013	mg/kg	40	08/23/23 15:53	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	08/23/23 15:53	8270C		MS
Chrysene	<0.017	0.040	0.017	mg/kg	40	08/23/23 15:53	8270C		MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	08/23/23 15:53	8270C		MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	08/23/23 15:53	8270C		MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	08/23/23 15:53	8270C		MS

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Durango CO, 81302	Project Manager: Kyle Siesser	08/29/23 13:35

SS01

2308249-01 (Soil)

Sampled Date: 08/11/23 09:40

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	08/23/23 15:53	8270C		MS
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	08/23/23 15:53	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			89.7 %	39.6-121		08/23/23 15:53	8270C		MS
<i>Surrogate: 2-Fluorobiphenyl</i>			113 %	39.8-134		08/23/23 15:53	8270C		MS
<i>Surrogate: Terphenyl-d14</i>			140 %	33.3-136		08/23/23 15:53	8270C	S-04	MS

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Durango CO, 81302	Project Manager: Kyle Siesser	08/29/23 13:35

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B232499 - General Prep - Wet Chem										
Blank (B232499-BLK1)										
Prepared: 08/23/23 Analyzed: 08/28/23										
Hexavalent Chromium	ND	0.250	mg/kg dry							
LCS (B232499-BS1)										
Prepared: 08/23/23 Analyzed: 08/28/23										
Hexavalent Chromium	2.34	0.250	mg/kg dry	2.50		93.4	85-115			

Saturated Paste Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B232450 - Paste Extract										
Reference (B232450-SRM1)										
Prepared & Analyzed: 08/18/23										
pH	7.44		pH Units	7.35		101	92-108			
Batch B232451 - Paste Extract										
Reference (B232451-SRM1)										
Prepared & Analyzed: 08/18/23										
Conductivity	6460		umho/cm@25C	6480		99.8	90-110			
Batch B232452 - Paste Extract										
Blank (B232452-BLK1)										
Prepared: 08/17/23 Analyzed: 08/22/23										
Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
SAR	0.00		No Unit							
Sodium	ND	1.00	mg/L							

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: DIA 35-11	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	08/29/23 13:35

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 B232506 - EPA 3050

Blank (B232506-BLK1)

Prepared: 08/23/23 Analyzed: 08/25/23

Barium	ND	5.00	mg/kg dry							
Cadmium	ND	5.00	mg/kg dry							
Chromium	ND	5.00	mg/kg dry							
Copper	ND	10.0	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 (B232506-BS1)

Prepared: 08/23/23 Analyzed: 08/25/23

Barium	187	5.00	mg/kg dry	200		93.6	80-120			
Cadmium	176	5.00	mg/kg dry	200		87.8	80-120			
Chromium	191	5.00	mg/kg dry	200		95.5	80-120			
Copper	395	10.0	mg/kg dry	400		98.7	80-120			
Lead	179	10.0	mg/kg dry	200		89.4	80-120			
Nickel	180	5.00	mg/kg dry	200		90.1	80-120			
Selenium	776	20.0	mg/kg dry	800		97.1	80-120			
Silver	9.27	1.00	mg/kg dry	10.0		92.7	80-120			
Zinc	168	10.0	mg/kg dry	200		84.2	80-120			

LCS Dup (B232506-BSD1)

Prepared: 08/23/23 Analyzed: 08/25/23

Barium	186	5.00	mg/kg dry	200		92.9	80-120	0.809	20	
Cadmium	174	5.00	mg/kg dry	200		87.1	80-120	0.725	20	
Chromium	189	5.00	mg/kg dry	200		94.7	80-120	0.837	20	
Copper	393	10.0	mg/kg dry	400		98.1	80-120	0.603	20	
Lead	182	10.0	mg/kg dry	200		90.9	80-120	1.59	20	
Nickel	178	5.00	mg/kg dry	200		89.2	80-120	0.953	20	
Selenium	773	20.0	mg/kg dry	800		96.6	80-120	0.454	20	
Silver	9.23	1.00	mg/kg dry	10.0		92.3	80-120	0.497	20	
Zinc	167	10.0	mg/kg dry	200		83.4	80-120	1.02	20	

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PO Box 1653	Project Name / Number: DIA 35-11	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	08/29/23 13:35

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 B232507 - EPA 3050M

Blank (B232507-BLK1)

Prepared: 08/23/23 Analyzed: 08/25/23

Arsenic	ND	0.100	mg/kg dry							
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LCS (B232507-BS1)

Prepared: 08/23/23 Analyzed: 08/25/23

Arsenic	5.27	0.100	mg/kg dry	5.00		105	80-120			
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LCS Dup (B232507-BSD1)

Prepared: 08/23/23 Analyzed: 08/25/23

Arsenic	5.13	0.100	mg/kg dry	5.00		103	80-120	2.77	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 B232453 - General Prep-SOILS

Blank (B232453-BLK1)

Prepared: 08/17/23 Analyzed: 08/22/23

Boron	ND	1.20	mg/L							
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PO Box 1653	Project Name / Number: DIA 35-11	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	08/29/23 13:35

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 3081622 - General Prep - Organics

Blank (3081622-BLK1)

Prepared & Analyzed: 08/16/23

Surrogate: 1-Chlorooctadecane	54.7		mg/kg	50.0		109	49.1-148			
Surrogate: 1-Chlorooctane	50.1		mg/kg	50.0		100	48.2-134			
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 (3081622-BS1)

Prepared & Analyzed: 08/16/23

Surrogate: 1-Chlorooctadecane	63.2		mg/kg	50.0		126	49.1-148			
Surrogate: 1-Chlorooctane	54.7		mg/kg	50.0		109	48.2-134			
DRO >C10-C28	206	10.0	mg/kg	200		103	66.5-118			
GRO C6-C10	194	10.0	mg/kg	200		97.0	66.4-123			
Total TPH C6-C28	400	10.0	mg/kg	400		100	77.6-123			

LCS Dup (3081622-BSD1)

Prepared & Analyzed: 08/16/23

Surrogate: 1-Chlorooctadecane	55.5		mg/kg	50.0		111	49.1-148			
Surrogate: 1-Chlorooctane	46.6		mg/kg	50.0		93.1	48.2-134			
DRO >C10-C28	203	10.0	mg/kg	200		101	66.5-118	1.70	21	
GRO C6-C10	188	10.0	mg/kg	200		94.1	66.4-123	3.07	17.7	
Total TPH C6-C28	391	10.0	mg/kg	400		97.7	77.6-123	2.36	18.5	

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Durango CO, 81302	Project Manager: Kyle Siesser	08/29/23 13:35

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 3081528 - Volatiles

Blank (3081528-BLK1)

Prepared: 08/15/23 Analyzed: 08/16/23

1,2,4-Trimethylbenzene	0.0170	0.0250	mg/kg							J
1,3,5-Trimethylbenzene	0.0134	0.0250	mg/kg							J
<i>Surrogate: 4-Bromofluorobenzene</i>	1.16		mg/kg	1.25		92.7	82.5-117			
Benzene	ND	0.0250	mg/kg							
<i>Surrogate: Dibromofluoromethane</i>	1.26		mg/kg	1.25		101	84.6-114			
Ethylbenzene	ND	0.0250	mg/kg							
m+p - Xylene	0.0297	0.0500	mg/kg							J
Naphthalene	0.00545	0.0250	mg/kg							J
o-Xylene	0.0170	0.0250	mg/kg							J
Toluene	ND	0.0250	mg/kg							
<i>Surrogate: Toluene-d8</i>	1.32		mg/kg	1.25		105	90.4-109			
Total Xylenes	0.0467	0.0750	mg/kg							J

LCS (3081528-BS1)

Prepared: 08/15/23 Analyzed: 08/16/23

1,2,4-Trimethylbenzene	0.490	0.0250	mg/kg	0.500		97.9	62.4-140			
1,3,5-Trimethylbenzene	0.483	0.0250	mg/kg	0.500		96.7	64.4-138			
<i>Surrogate: 4-Bromofluorobenzene</i>	1.25		mg/kg	1.25		99.8	82.5-117			
Benzene	0.528	0.0250	mg/kg	0.500		106	73-130			
<i>Surrogate: Dibromofluoromethane</i>	1.22		mg/kg	1.25		97.4	84.6-114			
Ethylbenzene	0.539	0.0250	mg/kg	0.500		108	75.4-127			
m+p - Xylene	0.938	0.0500	mg/kg	1.00		93.8	71.8-133			
Naphthalene	0.455	0.0250	mg/kg	0.500		90.9	28.7-158			
o-Xylene	0.425	0.0250	mg/kg	0.500		85.0	78.6-125			
Toluene	0.530	0.0250	mg/kg	0.500		106	79-122			
<i>Surrogate: Toluene-d8</i>	1.28		mg/kg	1.25		102	90.4-109			
Total Xylenes	1.36	0.0750	mg/kg	1.50		90.9	74.6-130			

LCS Dup (3081528-BSD1)

Prepared: 08/15/23 Analyzed: 08/16/23

1,2,4-Trimethylbenzene	0.455	0.0250	mg/kg	0.500		91.1	62.4-140	7.25	38.2	
1,3,5-Trimethylbenzene	0.458	0.0250	mg/kg	0.500		91.5	64.4-138	5.50	39.1	
<i>Surrogate: 4-Bromofluorobenzene</i>	1.25		mg/kg	1.25		100	82.5-117			
Benzene	0.521	0.0250	mg/kg	0.500		104	73-130	1.26	17.1	
<i>Surrogate: Dibromofluoromethane</i>	1.24		mg/kg	1.25		99.1	84.6-114			
Ethylbenzene	0.538	0.0250	mg/kg	0.500		108	75.4-127	0.188	16.5	
m+p - Xylene	0.919	0.0500	mg/kg	1.00		91.9	71.8-133	2.11	19.1	
Naphthalene	0.395	0.0250	mg/kg	0.500		79.0	28.7-158	14.0	64	
o-Xylene	0.411	0.0250	mg/kg	0.500		82.1	78.6-125	3.45	13.2	
Toluene	0.519	0.0250	mg/kg	0.500		104	79-122	2.00	18.3	

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Jeremy D Allen, Laboratory Director

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: DIA 35-11	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	08/29/23 13:35

**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 3081528 - Volatiles (Continued)

LCS Dup (3081528-BSD1) (Continued)

Prepared: 08/15/23 Analyzed: 08/16/23

Surrogate: Toluene-d8	1.28		mg/kg	1.25		102	90.4-109			
Total Xylenes	1.33	0.0750	mg/kg	1.50		88.6	74.6-130	2.53	16.5	

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Jeremy D Allen, Laboratory Director

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: DIA 35-11	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	08/29/23 13:35

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 3082111 - SW846-3510

Blank (3082111-BLK1)

Prepared: 08/21/23 Analyzed: 08/23/23

1-Methylnaphthalene	ND	0.040	mg/kg							
<i>Surrogate: 2-Fluorobiphenyl</i>	2.87		mg/kg	2.00		144	39.8-134			S-05
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]flouranthene	ND	0.040	mg/kg							
Benzo[k]flouranthene	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>	2.47		mg/kg	2.00		124	39.6-121			S-05
Pyrene	ND	0.040	mg/kg							
<i>Surrogate: Terphenyl-d14</i>	2.34		mg/kg	2.00		117	33.3-136			

LCS (3082111-BS1)

Prepared: 08/21/23 Analyzed: 08/23/23

1-Methylnaphthalene	0.396	0.040	mg/kg	0.400		99.0	57.6-108			
<i>Surrogate: 2-Fluorobiphenyl</i>	3.92		mg/kg	2.00		196	39.8-134			S-05
2-Methylnaphthalene	0.407	0.040	mg/kg	0.400		102	59-106			
Acenaphthene	0.392	0.040	mg/kg	0.400		97.9	60.9-105			
Acenaphthylene	0.373	0.040	mg/kg	0.400		93.2	57.4-107			
Anthracene	0.385	0.040	mg/kg	0.400		96.3	60.8-105			
Benzo[a]anthracene	0.386	0.040	mg/kg	0.400		96.6	56.1-121			
Benzo[a]pyrene	0.396	0.040	mg/kg	0.400		99.0	56.7-115			
Benzo[b]flouranthene	0.411	0.040	mg/kg	0.400		103	45.4-128			
Benzo[g,h,i]perylene	0.436	0.040	mg/kg	0.400		109	56.5-107			BS1
Benzo[k]flouranthene	0.431	0.040	mg/kg	0.400		108	49.6-119			
Carbazole	0.388	0.040	mg/kg	0.400		96.9	59.7-107			
Chrysene	0.406	0.040	mg/kg	0.400		102	12.2-190			
Dibenz[a,h]anthracene	0.410	0.040	mg/kg	0.400		103	59.1-111			
Fluoranthene	0.367	0.040	mg/kg	0.400		91.9	60.6-111			
Fluorene	0.396	0.040	mg/kg	0.400		99.0	59.3-108			
Indeno[1,2,3-cd]pyrene	0.402	0.040	mg/kg	0.400		101	53.4-116			
Naphthalene	0.400	0.040	mg/kg	0.400		100	56.5-106			

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: DIA 35-11	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	08/29/23 13:35

**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 3082111 - SW846-3510 (Continued)

LCS (3082111-BS1) (Continued)

Prepared: 08/21/23 Analyzed: 08/23/23

<i>Surrogate: Nitrobenzene-d5</i>	3.37		mg/kg	2.00		169	39.6-121			S-05
Phenanthrene	0.394	0.040	mg/kg	0.400		98.5	59.9-107			
Pyrene	0.418	0.040	mg/kg	0.400		104	51.5-122			
<i>Surrogate: Terphenyl-d14</i>	3.53		mg/kg	2.00		177	33.3-136			S-05

LCS Dup (3082111-BS1)

Prepared: 08/21/23 Analyzed: 08/23/23

1-Methylnaphthalene	0.410	0.040	mg/kg	0.400		103	57.6-108	3.52	6.22	
<i>Surrogate: 2-Fluorobiphenyl</i>	3.88		mg/kg	2.00		194	39.8-134			S-05
2-Methylnaphthalene	0.403	0.040	mg/kg	0.400		101	59-106	0.906	6.23	
Acenaphthene	0.397	0.040	mg/kg	0.400		99.3	60.9-105	1.44	8.18	
Acenaphthylene	0.381	0.040	mg/kg	0.400		95.3	57.4-107	2.25	5	
Anthracene	0.383	0.040	mg/kg	0.400		95.7	60.8-105	0.630	3.68	
Benzo[a]anthracene	0.398	0.040	mg/kg	0.400		99.5	56.1-121	2.97	9.01	
Benzo[a]pyrene	0.397	0.040	mg/kg	0.400		99.4	56.7-115	0.338	4.92	
Benzo[b]fluoranthene	0.420	0.040	mg/kg	0.400		105	45.4-128	2.22	7.63	
Benzo[g,h,i]perylene	0.434	0.040	mg/kg	0.400		108	56.5-107	0.460	12.5	BS1
Benzo[k]fluoranthene	0.435	0.040	mg/kg	0.400		109	49.6-119	0.862	10.6	
Carbazole	0.404	0.040	mg/kg	0.400		101	59.7-107	4.19	8.65	
Chrysene	0.420	0.040	mg/kg	0.400		105	12.2-190	3.32	21.8	
Dibenz[a,h]anthracene	0.413	0.040	mg/kg	0.400		103	59.1-111	0.564	11.6	
Fluoranthene	0.403	0.040	mg/kg	0.400		101	60.6-111	9.21	7.54	QR-04
Fluorene	0.404	0.040	mg/kg	0.400		101	59.3-108	1.89	5.49	
Indeno[1,2,3-cd]pyrene	0.403	0.040	mg/kg	0.400		101	53.4-116	0.323	22.3	
Naphthalene	0.402	0.040	mg/kg	0.400		101	56.5-106	0.533	4.56	
<i>Surrogate: Nitrobenzene-d5</i>	3.31		mg/kg	2.00		166	39.6-121			S-05
Phenanthrene	0.399	0.040	mg/kg	0.400		99.6	59.9-107	1.14	5.21	
Pyrene	0.419	0.040	mg/kg	0.400		105	51.5-122	0.215	10.6	
<i>Surrogate: Terphenyl-d14</i>	3.48		mg/kg	2.00		174	33.3-136			S-05

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: DIA 35-11	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	08/29/23 13:35

Notes and Definitions

- SD2 Serial Dilution RPD exceeded the laboratory control limit. All other QC for analyte acceptable.
- S-05 The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
- 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).
- BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
*Results reported on as received basis unless designated as dry.
- RPD Relative Percent Difference
- LCS Laboratory Control Sample (Blank Spike)
- RL Report Limit
- MDL Method Detection Limit

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SAMPLE CONDITION RECEIPT FORM

Client Name: Cottonwood Consulting

Work Order # 2308-249

Courier: Fed Ex UPS USPS Client Kangaroo

Custody Seals on Box/Cooler Present: Yes No

Seals Intact: Yes No

Thermometer Used: 2 Samples on ice, cooling process has begun: Yes No

Type of Ice: Wet Blue None

Cooler Temp: Observed Temp: 5.2 °C Correction Factor: 0 °C Final Temp: 5.2 °C

* Temp should be above freezing to 6°C

Date/Initials of person examining contents: 8/14/23
ST

Labeled by Initials: _____
(if different than above)

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.
Sampler Name and Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No	4.
Samples arrived within hold time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Dissolved Testing Needed:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	11.
Field Filtered: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Sample Labels match COC: -Includes Date/Time/ID	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
Matrix:	WT <input checked="" type="checkbox"/> SL <input type="checkbox"/> OT	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____