



75 Suttle Street  
Durango, CO 81303  
970.247.4220 Phone  
970.247.4227 Fax  
[www.greenanalytical.com](http://www.greenanalytical.com)

16 November 2023

Jacob Harter  
Cottonwood Consulting  
PO Box 1653  
Durango, CO 81302  
RE: Dyehard (OWP) 3A

Enclosed are the results of analyses for samples received by the laboratory on 11/02/23 14:25. 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 'Veronica J. Wells'. The signature is written in a cursive, flowing style.

Veronica Wells  
Project Manager

All accredited analytes contained in this report are denoted by an asterisk (\*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: T104704514-23-18

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



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

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Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project: Table 915-1  
Project Name / Number: Dyehard (OWP) 3A  
Project Manager: Jacob Harter

**Reported:**  
11/16/23 10:48

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS02	2311039-01	Solid	11/02/23 09:55	11/02/23 14:25	
SS03	2311039-02	Solid	11/02/23 10:05	11/02/23 14:25	

Green Analytical Laboratories

Veronica Wells, Project Manager

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Project: Table 915-1  
Project Name / Number: Dyehard (OWP) 3A  
Project Manager: Jacob Harter

Reported:  
11/16/23 10:48

## SS02

2311039-01 (Soil)

Sampled Date: 11/02/23 09:55

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	11/15/23 17:01	3060A/3500-Cr B		CAI
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### Saturated Paste Extraction

Calcium	641	2.00	1.16	mg/L	20	11/13/23 13:35	EPA200.7		AES
Conductivity	16500			umho/cm@25 C	1	11/09/23 10:45	ASA#9 10-3.3		AES
Magnesium	71.0	2.00	1.31	mg/L	20	11/13/23 13:35	EPA200.7		AES
pH	7.30			pH Units	1	11/09/23 10:41	ASA#9 10-3.2		AES
SAR	27.3			No Unit	1	11/13/23 13:35	Calculation		AES
Sodium	2730	20.0	1.59	mg/L	20	11/13/23 13:35	EPA200.7		AES

### Total Metals by ICP

Barium	225	5.00	0.942	mg/kg dry	100	11/13/23 16:01	6010B		AES
Cadmium	<5.00	5.00	1.29	mg/kg dry	100	11/13/23 16:01	6010B		AES
Chromium	21.5	5.00	4.53	mg/kg dry	100	11/13/23 16:01	6010B		AES
Copper	34.2	10.0	4.61	mg/kg dry	100	11/13/23 16:01	6010B		AES
Lead	17.6	10.0	1.88	mg/kg dry	100	11/13/23 16:01	6010B		AES
Nickel	12.0	5.00	1.41	mg/kg dry	100	11/13/23 16:01	6010B		AES
Selenium	<20.0	20.0	9.47	mg/kg dry	100	11/13/23 16:00	6010B		AES
Silver	<1.00	1.00	0.460	mg/kg dry	100	11/13/23 16:00	6010B		AES
Zinc	47.8	10.0	1.24	mg/kg dry	100	11/13/23 16:01	6010B		AES

### Total Metals by ICPMS

Arsenic	6.74	1.00	0.158	mg/kg dry	1000	11/14/23 15:58	6020A		AES
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### Hot Water Extractable

Boron	1.71	1.20	0.568	mg/L	4	11/13/23 14:33	EPA200.7		AES
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

### Petroleum Hydrocarbons by GC FID

DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	11/07/23 12:59	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	11/07/23 12:59	8015B		MS
GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	11/07/23 12:59	8015B		MS

Surrogate: 1-Chlorooctadecane

73.2 % 49.1-148

11/07/23  
12:59

8015B

MS

Green Analytical Laboratories

Veronica J. Wells

Veronica Wells, Project Manager

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Project: Table 915-1  
Project Name / Number: Dyehard (OWP) 3A  
Project Manager: Jacob Harter

Reported:  
11/16/23 10:48

**SS02****2311039-01 (Soil)****Sampled Date: 11/02/23 09:55**

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-Chlorooctane	79.6 %	48.2-134	11/07/23 12:59	8015B	MS
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**VOLATILES BY GC/MS**

1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	11/10/23 18:10	8260B	ZZZ
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	11/10/23 18:10	8260B	ZZZ
Benzene*	<0.0250	0.0250	0.00885	mg/kg	50	11/10/23 18:10	8260B	ZZZ
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	11/10/23 18:10	8260B	ZZZ
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	11/10/23 18:10	8260B	ZZZ
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	11/10/23 18:10	8260B	ZZZ
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	11/10/23 18:10	8260B	ZZZ
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	11/10/23 18:10	8260B	ZZZ
Total Xylenes*	<0.0750	0.0750	0.0256	mg/kg	50	11/10/23 18:10	8260B	ZZZ

Surrogate: 4-Bromofluorobenzene	95.2 %	82.5-117	11/10/23 18:10	8260B	ZZZ
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Surrogate: Dibromofluoromethane	90.0 %	84.6-114	11/10/23 18:10	8260B	ZZZ
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Surrogate: Toluene-d8	100 %	90.4-109	11/10/23 18:10	8260B	ZZZ
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**Polynuclear Aromatic Compounds by GC/MS**

1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	11/13/23 14:33	8270C	MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	11/13/23 14:33	8270C	MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	11/13/23 14:33	8270C	MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	11/13/23 14:33	8270C	MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	11/13/23 14:33	8270C	MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	11/13/23 14:33	8270C	MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	11/13/23 14:33	8270C	MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	11/13/23 14:33	8270C	MS
Chrysene	<0.017	0.040	0.017	mg/kg	40	11/13/23 14:33	8270C	MS
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	11/13/23 14:33	8270C	MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	11/13/23 14:33	8270C	MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	11/13/23 14:33	8270C	MS
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	11/13/23 14:33	8270C	MS

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Veronica Wells, Project Manager

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Project: Table 915-1  
Project Name / Number: Dyehard (OWP) 3A  
Project Manager: Jacob Harter

Reported:  
11/16/23 10:48

SS02

2311039-01 (Soil)

Sampled Date: 11/02/23 09:55

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**

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	11/13/23 14:33	8270C		MS
Pyrene*	<0.013	0.040	0.013	mg/kg	40	11/13/23 14:33	8270C		MS
Surrogate: 2-Fluorobiphenyl			108 %	39.8-134		11/13/23 14:33	8270C		MS
Surrogate: Nitrobenzene-d5			91.3 %	39.6-121		11/13/23 14:33	8270C		MS
Surrogate: Terphenyl-d14			107 %	33.3-136		11/13/23 14:33	8270C		MS

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Veronica J. Wells

Veronica Wells, Project Manager

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Project: Table 915-1  
Project Name / Number: Dyehard (OWP) 3A  
Project Manager: Jacob Harter

Reported:  
11/16/23 10:48

### SS03

#### 2311039-02 (Soil)

Sampled Date: 11/02/23 10:05

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	11/15/23 17:01	3060A/3500-Cr B		CAI
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#### Saturated Paste Extraction

Calcium	29.8	0.100	0.058	mg/L	1	11/13/23 13:38	EPA200.7		AES
Conductivity	515			umho/cm@25 C	1	11/09/23 10:45	ASA#9 10-3.3		AES
Magnesium	6.71	0.100	0.065	mg/L	1	11/13/23 13:38	EPA200.7		AES
pH	7.99			pH Units	1	11/09/23 10:41	ASA#9 10-3.2		AES
SAR	3.19			No Unit	1	11/13/23 13:38	Calculation		AES
Sodium	74.0	1.00	0.079	mg/L	1	11/13/23 13:38	EPA200.7		AES

#### Total Metals by ICP

Barium	222	5.00	0.942	mg/kg dry	100	11/13/23 16:05	6010B		AES
Cadmium	<5.00	5.00	1.29	mg/kg dry	100	11/13/23 16:05	6010B		AES
Chromium	19.4	5.00	4.53	mg/kg dry	100	11/13/23 16:05	6010B		AES
Copper	20.4	10.0	4.61	mg/kg dry	100	11/13/23 16:05	6010B		AES
Lead	<10.0	10.0	1.88	mg/kg dry	100	11/13/23 16:05	6010B		AES
Nickel	11.5	5.00	1.41	mg/kg dry	100	11/13/23 16:05	6010B		AES
Selenium	<20.0	20.0	9.47	mg/kg dry	100	11/13/23 16:05	6010B		AES
Silver	<1.00	1.00	0.460	mg/kg dry	100	11/13/23 16:05	6010B		AES
Zinc	41.2	10.0	1.24	mg/kg dry	100	11/13/23 16:05	6010B		AES

#### Total Metals by ICPMS

Arsenic	4.39	1.00	0.158	mg/kg dry	1000	11/14/23 16:00	6020A		AES
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#### Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	11/13/23 14:37	EPA200.7		AES
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

#### Petroleum Hydrocarbons by GC FID

DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	11/07/23 13:16	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	11/07/23 13:16	8015B		MS
GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	11/07/23 13:16	8015B		MS

Surrogate: 1-Chlorooctadecane

66.7 % 49.1-148

11/07/23  
13:16

8015B

MS

Green Analytical Laboratories

Veronica Wells, Project Manager

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Project: Table 915-1  
Project Name / Number: Dyehard (OWP) 3A  
Project Manager: Jacob Harter

Reported:  
11/16/23 10:48

SS03

2311039-02 (Soil)

Sampled Date: 11/02/23 10:05

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-Chlorooctane	74.6 %	48.2-134	11/07/23 13:16	8015B	MS
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#### VOLATILES BY GC/MS

1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	11/10/23 18:33	8260B	ZZZ
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	11/10/23 18:33	8260B	ZZZ
Benzene*	<0.0250	0.0250	0.00885	mg/kg	50	11/10/23 18:33	8260B	ZZZ
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	11/10/23 18:33	8260B	ZZZ
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	11/10/23 18:33	8260B	ZZZ
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	11/10/23 18:33	8260B	ZZZ
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	11/10/23 18:33	8260B	ZZZ
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	11/10/23 18:33	8260B	ZZZ
Total Xylenes*	<0.0750	0.0750	0.0256	mg/kg	50	11/10/23 18:33	8260B	ZZZ

Surrogate: 4-Bromofluorobenzene	93.6 %	82.5-117	11/10/23 18:33	8260B	ZZZ
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Surrogate: Dibromofluoromethane	89.5 %	84.6-114	11/10/23 18:33	8260B	ZZZ
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Surrogate: Toluene-d8	101 %	90.4-109	11/10/23 18:33	8260B	ZZZ
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#### Polynuclear Aromatic Compounds by GC/MS

1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	11/13/23 15:46	8270C	MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	11/13/23 15:46	8270C	MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	11/13/23 15:46	8270C	MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	11/13/23 15:46	8270C	MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	11/13/23 15:46	8270C	MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	11/13/23 15:46	8270C	MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	11/13/23 15:46	8270C	MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	11/13/23 15:46	8270C	MS
Chrysene	<0.017	0.040	0.017	mg/kg	40	11/13/23 15:46	8270C	MS
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	11/13/23 15:46	8270C	MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	11/13/23 15:46	8270C	MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	11/13/23 15:46	8270C	MS
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	11/13/23 15:46	8270C	MS

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Veronica J Wells

Veronica Wells, Project Manager

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Project: Table 915-1  
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Project Manager: Jacob Harter

Reported:  
11/16/23 10:48

SS03

2311039-02 (Soil)

Sampled Date: 11/02/23 10:05

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**

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	11/13/23 15:46	8270C		MS
Pyrene*	<0.013	0.040	0.013	mg/kg	40	11/13/23 15:46	8270C		MS
Surrogate: 2-Fluorobiphenyl			74.5 %	39.8-134		11/13/23 15:46	8270C		MS
Surrogate: Nitrobenzene-d5			61.6 %	39.6-121		11/13/23 15:46	8270C		MS
Surrogate: Terphenyl-d14			70.5 %	33.3-136		11/13/23 15:46	8270C		MS

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Veronica J. Wells

Veronica Wells, Project Manager

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Project Name / Number: Dyehard (OWP) 3A  
Project Manager: Jacob Harter

Reported:  
11/16/23 10:48

### 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 B233355 - General Prep - Wet Chem

##### Blank (B233355-BLK1)

Prepared: 11/08/23 Analyzed: 11/15/23

Hexavalent Chromium	ND	0.250	mg/kg dry							
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##### LCS (B233355-BS1)

Prepared: 11/08/23 Analyzed: 11/15/23

Hexavalent Chromium	2.26	0.250	mg/kg dry	2.50		90.3	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 B233346 - Paste Extract

##### Reference (B233346-SRM1)

Prepared: 11/07/23 Analyzed: 11/09/23

Conductivity	5460		umho/cm@25C	6480		84.3	90-110			BS3
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#### Batch B233347 - Paste Extract

##### Reference (B233347-SRM1)

Prepared: 11/07/23 Analyzed: 11/09/23

pH	7.49		pH Units	7.35		102	92-108			
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#### Batch B233348 - General Prep-SOILS

##### Blank (B233348-BLK1)

Prepared: 11/07/23 Analyzed: 11/13/23

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

##### Reference (B233348-SRM1)

Prepared: 11/07/23 Analyzed: 11/13/23

SAR	5.99		No Unit	6.20		96.7	90-110			
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Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project: Table 915-1  
Project Name / Number: Dyehard (OWP) 3A  
Project Manager: Jacob Harter

Reported:  
11/16/23 10:48

### 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 B233330 - EPA 3050

##### Blank (B233330-BLK1)

Prepared: 11/06/23 Analyzed: 11/13/23

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 (B233330-BS1)

Prepared: 11/06/23 Analyzed: 11/13/23

Barium	188	5.00	mg/kg dry	200	94.2	80-120
Cadmium	178	5.00	mg/kg dry	200	89.0	80-120
Chromium	194	5.00	mg/kg dry	200	96.8	80-120
Copper	386	10.0	mg/kg dry	400	96.6	80-120
Lead	184	10.0	mg/kg dry	200	91.8	80-120
Nickel	184	5.00	mg/kg dry	200	92.1	80-120
Selenium	791	20.0	mg/kg dry	800	98.9	80-120
Silver	9.18	1.00	mg/kg dry	10.0	91.8	80-120
Zinc	174	10.0	mg/kg dry	200	86.8	80-120

##### LCS Dup (B233330-BSD1)

Prepared: 11/06/23 Analyzed: 11/13/23

Barium	185	5.00	mg/kg dry	200	92.6	80-120	1.80	20
Cadmium	174	5.00	mg/kg dry	200	87.1	80-120	2.22	20
Chromium	190	5.00	mg/kg dry	200	95.2	80-120	1.67	20
Copper	383	10.0	mg/kg dry	400	95.7	80-120	0.922	20
Lead	178	10.0	mg/kg dry	200	89.2	80-120	2.91	20
Nickel	177	5.00	mg/kg dry	200	88.6	80-120	3.91	20
Selenium	780	20.0	mg/kg dry	800	97.5	80-120	1.48	20
Silver	9.19	1.00	mg/kg dry	10.0	91.9	80-120	0.144	20
Zinc	169	10.0	mg/kg dry	200	84.7	80-120	2.43	20

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

www.GreenAnalytical.com

Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project: Table 915-1  
Project Name / Number: Dyehard (OWP) 3A  
Project Manager: Jacob Harter

Reported:  
11/16/23 10:48

### 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 B233331 - EPA 3050M

##### Blank (B233331-BLK1)

Prepared: 11/06/23 Analyzed: 11/14/23

Arsenic ND 0.100 mg/kg dry

##### LCS (B233331-BS1)

Prepared: 11/06/23 Analyzed: 11/14/23

Arsenic 5.18 0.100 mg/kg dry 5.00 104 80-120

##### LCS Dup (B233331-BSD1)

Prepared: 11/06/23 Analyzed: 11/14/23

Arsenic 5.14 0.100 mg/kg dry 5.00 103 80-120 0.913 20

### 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 B233349 - General Prep-SOILS

##### Blank (B233349-BLK1)

Prepared: 11/07/23 Analyzed: 11/13/23

Boron ND 1.20 mg/L

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

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PO Box 1653  
Durango CO, 81302

Project: Table 915-1  
Project Name / Number: Dyehard (OWP) 3A  
Project Manager: Jacob Harter

Reported:  
11/16/23 10:48

### 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 3110323 - General Prep - Organics

##### Blank (3110323-BLK1)

Prepared: 11/03/23 Analyzed: 11/06/23

Surrogate: 1-Chlorooctadecane	44.6		mg/kg	50.0		89.2	49.1-148			
Surrogate: 1-Chlorooctane	47.8		mg/kg	50.0		95.6	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 (3110323-BS1)

Prepared: 11/03/23 Analyzed: 11/06/23

Surrogate: 1-Chlorooctadecane	51.7		mg/kg	50.0		103	49.1-148			
Surrogate: 1-Chlorooctane	51.6		mg/kg	50.0		103	48.2-134			
DRO >C10-C28	195	10.0	mg/kg	200		97.4	66.5-118			
GRO C6-C10	207	10.0	mg/kg	200		103	66.4-123			
Total TPH C6-C28	401	10.0	mg/kg	400		100	77.6-123			

##### LCS Dup (3110323-BSD1)

Prepared: 11/03/23 Analyzed: 11/06/23

Surrogate: 1-Chlorooctadecane	51.9		mg/kg	50.0		104	49.1-148			
Surrogate: 1-Chlorooctane	51.4		mg/kg	50.0		103	48.2-134			
DRO >C10-C28	189	10.0	mg/kg	200		94.7	66.5-118	2.75	21	
GRO C6-C10	208	10.0	mg/kg	200		104	66.4-123	0.756	17.7	
Total TPH C6-C28	398	10.0	mg/kg	400		99.4	77.6-123	0.929	18.5	

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Veronica J. Wells

Veronica Wells, Project Manager

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Project: Table 915-1  
Project Name / Number: Dyehard (OWP) 3A  
Project Manager: Jacob Harter

Reported:  
11/16/23 10:48

**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 3110731 - Volatiles****Blank (3110731-BLK1)**

Prepared: 11/07/23 Analyzed: 11/10/23

1,2,4-Trimethylbenzene	ND	0.0250	mg/kg						
1,3,5-Trimethylbenzene	ND	0.0250	mg/kg						
Surrogate: 4-Bromofluorobenzene	1.14		mg/kg	1.25		91.4	82.5-117		
Benzene	ND	0.0250	mg/kg						
Surrogate: Dibromofluoromethane	1.16		mg/kg	1.25		92.6	84.6-114		
Ethylbenzene	ND	0.0250	mg/kg						
m+p - Xylene	ND	0.0500	mg/kg						
Naphthalene	ND	0.0250	mg/kg						
o-Xylene	ND	0.0250	mg/kg						
Toluene	ND	0.0250	mg/kg						
Surrogate: Toluene-d8	1.29		mg/kg	1.25		103	90.4-109		
Total Xylenes	ND	0.0750	mg/kg						

**LCS (3110731-BS1)**

Prepared: 11/07/23 Analyzed: 11/10/23

1,2,4-Trimethylbenzene	0.569	0.0250	mg/kg	0.500		114	62.4-140		
1,3,5-Trimethylbenzene	0.581	0.0250	mg/kg	0.500		116	64.4-138		
Surrogate: 4-Bromofluorobenzene	1.22		mg/kg	1.25		97.5	82.5-117		
Benzene	0.503	0.0250	mg/kg	0.500		101	73-130		
Surrogate: Dibromofluoromethane	1.18		mg/kg	1.25		94.2	84.6-114		
Ethylbenzene	0.533	0.0250	mg/kg	0.500		107	75.4-127		
m+p - Xylene	1.17	0.0500	mg/kg	1.00		117	71.8-133		
Naphthalene	0.481	0.0250	mg/kg	0.500		96.3	28.7-158		
o-Xylene	0.465	0.0250	mg/kg	0.500		93.0	78.6-125		
Toluene	0.528	0.0250	mg/kg	0.500		106	79-122		
Surrogate: Toluene-d8	1.24		mg/kg	1.25		99.4	90.4-109		
Total Xylenes	1.64	0.0750	mg/kg	1.50		109	74.6-130		

**LCS Dup (3110731-BSD1)**

Prepared: 11/07/23 Analyzed: 11/10/23

1,2,4-Trimethylbenzene	0.561	0.0250	mg/kg	0.500		112	62.4-140	1.32	38.2
1,3,5-Trimethylbenzene	0.574	0.0250	mg/kg	0.500		115	64.4-138	1.38	39.1
Surrogate: 4-Bromofluorobenzene	1.23		mg/kg	1.25		98.5	82.5-117		
Benzene	0.501	0.0250	mg/kg	0.500		100	73-130	0.255	17.1
Surrogate: Dibromofluoromethane	1.20		mg/kg	1.25		95.8	84.6-114		
Ethylbenzene	0.528	0.0250	mg/kg	0.500		106	75.4-127	1.00	16.5
m+p - Xylene	1.16	0.0500	mg/kg	1.00		116	71.8-133	1.23	19.1
Naphthalene	0.472	0.0250	mg/kg	0.500		94.3	28.7-158	2.04	64
o-Xylene	0.452	0.0250	mg/kg	0.500		90.5	78.6-125	2.68	13.2
Toluene	0.527	0.0250	mg/kg	0.500		105	79-122	0.286	18.3

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

www.GreenAnalytical.com

Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project: Table 915-1  
Project Name / Number: Dyehard (OWP) 3A  
Project Manager: Jacob Harter

Reported:  
11/16/23 10:48

**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 3110731 - Volatiles (Continued)**

**LCS Dup (3110731-BSD1) (Continued)**

Prepared: 11/07/23 Analyzed: 11/10/23

Surrogate: Toluene-d8	1.25		mg/kg	1.25		99.9	90.4-109			
Total Xylenes	1.61	0.0750	mg/kg	1.50		107	74.6-130	1.64	16.5	

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

www.GreenAnalytical.com

Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project: Table 915-1  
Project Name / Number: Dyehard (OWP) 3A  
Project Manager: Jacob Harter

Reported:  
11/16/23 10:48

### 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 3110609 - SW846-3510

##### Blank (3110609-BLK1)

Prepared: 11/06/23 Analyzed: 11/13/23

1-Methylnaphthalene	ND	0.040	mg/kg							
Surrogate: 2-Fluorobiphenyl	1.72		mg/kg	2.00		85.8	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	1.42		mg/kg	2.00		70.9	39.6-121			
Pyrene	ND	0.040	mg/kg							
Surrogate: Terphenyl-d14	2.03		mg/kg	2.00		101	33.3-136			

##### LCS (3110609-BS1)

Prepared: 11/06/23 Analyzed: 11/13/23

1-Methylnaphthalene	0.358	0.040	mg/kg	0.400		89.6	57.6-108			
Surrogate: 2-Fluorobiphenyl	1.86		mg/kg	2.00		93.2	39.8-134			
2-Methylnaphthalene	0.380	0.040	mg/kg	0.400		95.1	59-106			
Acenaphthene	0.370	0.040	mg/kg	0.400		92.6	60.9-105			
Acenaphthylene	0.382	0.040	mg/kg	0.400		95.4	57.4-107			
Anthracene	0.369	0.040	mg/kg	0.400		92.3	60.8-105			
Benzo[a]anthracene	0.373	0.040	mg/kg	0.400		93.1	56.1-121			
Benzo[a]pyrene	0.376	0.040	mg/kg	0.400		94.0	56.7-115			
Benzo[b]fluoranthene	0.364	0.040	mg/kg	0.400		91.0	45.4-128			
Benzo[g,h,i]perylene	0.409	0.040	mg/kg	0.400		102	56.5-107			
Benzo[k]fluoranthene	0.400	0.040	mg/kg	0.400		100	49.6-119			
Carbazole	0.373	0.040	mg/kg	0.400		93.2	59.7-107			
Chrysene	0.394	0.040	mg/kg	0.400		98.5	12.2-190			
Dibenz[a,h]anthracene	0.398	0.040	mg/kg	0.400		99.4	59.1-111			
Fluoranthene	0.391	0.040	mg/kg	0.400		97.7	60.6-111			
Fluorene	0.378	0.040	mg/kg	0.400		94.6	59.3-108			
Indeno[1,2,3-cd]pyrene	0.417	0.040	mg/kg	0.400		104	53.4-116			
Naphthalene	0.372	0.040	mg/kg	0.400		93.1	56.5-106			

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Veronica J Wells

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Durango CO, 81302

Project: Table 915-1  
Project Name / Number: Dyehard (OWP) 3A  
Project Manager: Jacob Harter

Reported:  
11/16/23 10:48

**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 3110609 - SW846-3510 (Continued)**

**LCS (3110609-BS1) (Continued)**

Prepared: 11/06/23 Analyzed: 11/13/23

Surrogate: Nitrobenzene-d5	1.58		mg/kg	2.00		79.0	39.6-121			
Phenanthrene	0.390	0.040	mg/kg	0.400		97.4	59.9-107			
Pyrene	0.379	0.040	mg/kg	0.400		94.8	51.5-122			
Surrogate: Terphenyl-d14	2.18		mg/kg	2.00		109	33.3-136			

**LCS Dup (3110609-BSD1)**

Prepared: 11/06/23 Analyzed: 11/13/23

1-Methylnaphthalene	0.363	0.040	mg/kg	0.400		90.7	57.6-108	1.23	6.22	
Surrogate: 2-Fluorobiphenyl	1.84		mg/kg	2.00		92.1	39.8-134			
2-Methylnaphthalene	0.381	0.040	mg/kg	0.400		95.3	59-106	0.231	6.23	
Acenaphthene	0.370	0.040	mg/kg	0.400		92.6	60.9-105	0.0540	8.18	
Acenaphthylene	0.388	0.040	mg/kg	0.400		97.0	57.4-107	1.67	5	
Anthracene	0.370	0.040	mg/kg	0.400		92.6	60.8-105	0.316	3.68	
Benzo[a]anthracene	0.373	0.040	mg/kg	0.400		93.3	56.1-121	0.212	9.01	
Benzo[a]pyrene	0.377	0.040	mg/kg	0.400		94.4	56.7-115	0.377	4.92	
Benzo[b]fluoranthene	0.369	0.040	mg/kg	0.400		92.2	45.4-128	1.29	7.63	
Benzo[g,h,i]perylene	0.400	0.040	mg/kg	0.400		100	56.5-107	2.22	12.5	
Benzo[k]fluoranthene	0.395	0.040	mg/kg	0.400		98.8	49.6-119	1.27	10.6	
Carbazole	0.386	0.040	mg/kg	0.400		96.4	59.7-107	3.37	8.65	
Chrysene	0.404	0.040	mg/kg	0.400		101	12.2-190	2.59	21.8	
Dibenz[a,h]anthracene	0.394	0.040	mg/kg	0.400		98.5	59.1-111	0.968	11.6	
Fluoranthene	0.391	0.040	mg/kg	0.400		97.8	60.6-111	0.159	7.54	
Fluorene	0.379	0.040	mg/kg	0.400		94.8	59.3-108	0.230	5.49	
Indeno[1,2,3-cd]pyrene	0.414	0.040	mg/kg	0.400		104	53.4-116	0.763	22.3	
Naphthalene	0.378	0.040	mg/kg	0.400		94.5	56.5-106	1.53	4.56	
Surrogate: Nitrobenzene-d5	1.56		mg/kg	2.00		77.8	39.6-121			
Phenanthrene	0.380	0.040	mg/kg	0.400		95.1	59.9-107	2.44	5.21	
Pyrene	0.390	0.040	mg/kg	0.400		97.6	51.5-122	2.95	10.6	
Surrogate: Terphenyl-d14	2.17		mg/kg	2.00		108	33.3-136			

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*Veronica J. Wells*

Veronica Wells, Project Manager

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Project: Table 915-1  
Project Name / Number: Dyehard (OWP) 3A  
Project Manager: Jacob Harter

**Reported:**  
11/16/23 10:48

### Notes and Definitions

BS3 Laboratory control sample did not meet laboratory acceptance criteria.

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

Veronica Wells, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



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

† GAL cannot always accept verbal changes. Please fax or email written change requests.

**SAMPLE CONDITION RECEIPT FORM**

Client Name: Cottonwood Consulting

Work Order # 2311-039

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: 15.3°C Correction Factor: 0°C Final Temp: 15.3°C

\* Temp should be above freezing to 6°C

Date/Initials of person  
examining contents: MPW 11/2/23

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and Signature on COC:	<input checked="" 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 type="checkbox"/> Yes <input checked="" 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 SL OT	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

**Client Notification/Resolution:**

Person Contacted: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_