



**Absaroka**  
**Max Dahlgren**  
**112 High St.**

**May 06, 2025**

**Buffalo WY 82834**

**Project Name - KMG - Miller 2&7-7 Facility**

**Project Number - [none]**

Attached are your analytical results for KMG - Miller 2&7-7 Facility received by Origins Laboratory April 03, 2025. This project is associated with Origins project number E5D0112-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows: "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory  
303.433.1322  
projectmanager@originslab.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Absaroka  
 112 High St.  
 Buffalo WY 82834

Max Dahlgren  
 Project Number: [none]  
 Project: KMG - Miller 2&7-7 Facility

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST-B01@3"	E5D0112-01	Soil	April 3, 2025 13:20	04/03/2025 16:26
SEP-B01@4'	E5D0112-02	Soil	April 3, 2025 13:30	04/03/2025 16:26
SEP-B02@4'	E5D0112-03	Soil	April 3, 2025 13:35	04/03/2025 16:26
PW-B01@4'	E5D0112-04	Soil	April 3, 2025 13:40	04/03/2025 16:26
PW-W01@2'	E5D0112-05	Soil	April 3, 2025 13:50	04/03/2025 16:26

A Cadmium, Lead, and Selenium re run was requested for SEP-BO2@4' per Jeffs email on 04/23/2025. KDK

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Absaroka  
112 High St.  
Buffalo WY 82834

Max Dahlgren  
Project Number: [none]  
Project: KMG - Miller 2&7-7 Facility

Page 1 of 1

**E5D0112**



Client: OXY / Absaroka  
Address: \_\_\_\_\_  
Telephone Number: 970-481-6009  
Email Address: oxy.co.rem@absarakasolutions.com

Project Manager: Max Dahlgren  
Project Name: Miller 2&7-7 Facility  
Project Number: \_\_\_\_\_  
Collected By: CH  
Invoice/Filling Info: On file - Oxy

Matrix:  Groundwater  Surface Water  Waste Water

Analysis:  Metals  pH, SAR, EC  Boron  Full 915

Matrix Preservative: \_\_\_\_\_  
# of Containers: \_\_\_\_\_  
Date Sampled: \_\_\_\_\_  
Time Sampled: \_\_\_\_\_

S-Split ISO-Solid (D-DIT) (A-AHF) (G-Gas) || UUP-Sulphide (H-H) - Hydrochloric (HClO3) Ferriate (H2SO4) Sulfate (NaOH) Sodium Hydroxide

Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis	Comments
AST-B1023"	4/3/25	1320	3	5 UWP		
SEP-B1024'		1330	3			
SEP-B1024'		1335	3			
PW-B1024'		1340	3			
PW-W1022'		1350	3			

Relinquished By: *Calvin Austin*  
Relinquished By: \_\_\_\_\_  
Date: 4/3/25  
Time: 1626

Received By: *JNA*  
Received By: \_\_\_\_\_  
Date: 4/13/25  
Time: 1626

Turnaround Time:  SAME DAY  24 Hr  48 Hr  72 Hr  
 Standard

Temp Received: *34* Received On Ice?  Yes  No

Origins Laboratory  
*Kayla Kenyon*

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Buffalo WY 82834

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Project Number: [none]  
Project: KMG - Miller 2&7-7 Facility

Origins Laboratory F-012207-01-R1  
Effective Date: 01/09/12

**Sample Receipt Checklist**

Origins Work Order: E5DD0112 Client: OXYLABSAROKA

Client Project ID: Miller 2&7-7 Facility

Checklist Completed by: NKM/JAR Shipped Via: HD

Date/time completed: 04/03/25 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 1 / 3.4 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: T-001

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>			
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcooled analyses in order to insure sample integrity)/pH < 2 for samples preserved with HNO3, HCL, H2SO4 / (pH < 10 for samples preserved with NaAcO2+NaOH, ZnAc2+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 4/7/25

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 Buffalo WY 82834

Max Dahlgren  
 Project Number: [none]  
 Project: KMG - Miller 2&7-7 Facility

**AST-B01@3"**

**4/3/2025 1:20:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0112-01 (Soil)  
 GEL Laboratories, LLC**

**Total Metals 7196A**

Hexavalent Chromium	ND	0.130	0.326	mg/kg dry	1	2781071	04/15/2025	04/17/2025	U
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**Origins Laboratory**

**Boron (DTPA Sorbitol)**

Boron	ND		0.0995	mg/L	1	B5D0407	04/04/2025	04/06/2025	Ua
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D0401	04/04/2025	04/04/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	97.0 %				50-150	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D0425	04/04/2025	04/05/2025	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua

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**AST-B01@3"**

**4/3/2025 1:20:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0112-01 (Soil)  
Origins Laboratory**

**GBTEX+TMBs by 8260D**

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5D0425	04/04/2025	04/05/2025	Ua
Surrogate: 1,2-Dichloroethane-d4	126 %			70-130		"	"	"	
Surrogate: Toluene-d8	101 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %			70-130		"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	9.72		0.499	meq/L	10	[CALC]	04/07/2025	04/09/2025	
Magnesium	4.79		0.823	"	"	"	"	"	
Sodium	1.09		0.435	"	"	"	"	"	

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5D0432	04/04/2025	04/04/2025	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua

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**AST-B01@3"**

**4/3/2025 1:20:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0112-01 (Soil)  
Origins Laboratory**

**PAH by EPA 8270E extracted via 3580A**

Chrysene	ND		0.020	mg/kg	1	B5D0432	04/04/2025	04/04/2025	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	98.0 %			60-130		"	"	"	
Surrogate: Anthracene-d10	96.7 %			60-130		"	"	"	
Surrogate: Pyrene-d10	99.2 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.4 %			60-130		"	"	"	

**pH in Soil by 9045D**

pH	7.85			pH Units	1	B5D0721	04/07/2025	04/09/2025	
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**SAR by 20B Saturated Paste**

SAR	ND		0.0100	SAR	1	B5D0717	04/07/2025	04/09/2025	Ua
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**Specific Conductance Mod. 9050A**

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**AST-B01@3"**

**4/3/2025 1:20:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5D0112-01 (Soil) Origins Laboratory</b>									
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	2.35		0.00500	mmhos/cm	1	B5D0721	04/07/2025	04/09/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	4.10		0.252	mg/kg	10	B5D0436	04/04/2025	04/06/2025	
Barium	49.4		8.68	"	"	"	"	"	
Cadmium	0.283		0.0868	"	"	"	"	"	
Copper	13.6		8.68	"	"	"	"	"	
Lead	12.2		0.868	"	"	"	"	"	
Nickel	8.69		0.868	"	"	"	"	"	
Selenium	0.493		0.226	"	"	"	"	"	
Silver	ND		0.0868	"	"	"	"	"	Ua
Zinc	38.7		32.1	"	"	"	"	"	

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Project Number: [none]  
Project: KMG - Miller 2&7-7 Facility

SEP-B01@4'

4/3/2025 1:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5D0112-02 (Soil)</b>									
<b>GEL Laboratories, LLC</b>									
<b>Total Metals 7196A</b>									
Hexavalent Chromium	ND	0.148	0.369	mg/kg dry	1	2781071	04/15/2025	04/17/2025	U
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
Boron	0.360		0.0996	mg/L	1	B5D0407	04/04/2025	04/06/2025	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D0401	04/04/2025	04/04/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua
Surrogate: o-Terphenyl	94.3 %			50-150		"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D0425	04/04/2025	04/05/2025	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua

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Project Number: [none]  
Project: KMG - Miller 2&7-7 Facility

**SEP-B01@4'**

**4/3/2025 1:30:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0112-02 (Soil)  
Origins Laboratory**

**GBTEX+TMBs by 8260D**

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5D0425	04/04/2025	04/05/2025	Ua
Surrogate: 1,2-Dichloroethane-d4	129 %			70-130		"	"	"	
Surrogate: Toluene-d8	102 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %			70-130		"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.07		0.499	meq/L	10	[CALC]	04/07/2025	04/09/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.652		0.435	"	"	"	"	"	

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5D0432	04/04/2025	04/04/2025	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	0.014		0.005	"	"	"	"	"	
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	0.022		0.020	"	"	"	"	"	

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Max Dahlgren  
Project Number: [none]  
Project: KMG - Miller 2&7-7 Facility

**SEP-B01@4'**  
**4/3/2025 1:30:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5D0112-02 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>PAH by EPA 8270E extracted via 3580A</b>									
Dibenz (a,h) anthracene	ND		0.020	mg/kg	1	B5D0432	04/04/2025	04/04/2025	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	0.023		0.020	"	"	"	"	"	
<i>Surrogate: Fluorene-d10</i>									
	98.8 %			60-130		"	"	"	
<i>Surrogate: Anthracene-d10</i>									
	99.8 %			60-130		"	"	"	
<i>Surrogate: Pyrene-d10</i>									
	97.0 %			60-130		"	"	"	
<i>Surrogate: Benzo (a) pyrene-d12</i>									
	96.8 %			60-130		"	"	"	
<b>pH in Soil by 9045D</b>									
pH	7.16			pH Units	1	B5D0721	04/07/2025	04/09/2025	
<b>SAR by 20B Saturated Paste</b>									
SAR	ND		0.0100	SAR	1	B5D0717	04/07/2025	04/09/2025	Ua
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.297		0.00500	mmhos/cm	1	B5D0721	04/07/2025	04/09/2025	

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Max Dahlgren  
 Project Number: [none]  
 Project: KMG - Miller 2&7-7 Facility

SEP-B01@4'

4/3/2025 1:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5D0112-02 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	6.54		0.271	mg/kg	10	B5D0436	04/04/2025	04/06/2025	
Barium	121		9.33	"	"	"	"	"	"
Cadmium	1.40		0.0933	"	"	"	"	"	"
Copper	37.5		9.33	"	"	"	"	"	"
Lead	60.6		0.933	"	"	"	"	"	"
Nickel	11.9		0.933	"	"	"	"	"	"
Selenium	0.584		0.243	"	"	"	"	"	"
Zinc	152		34.5	"	"	"	"	"	"

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Max Dahlgren  
Project Number: [none]  
Project: KMG - Miller 2&7-7 Facility

SEP-B02@4'

4/3/2025 1:35:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5D0112-03 (Soil)</b>									
<b>GEL Laboratories, LLC</b>									
<b>Total Metals 7196A</b>									
Hexavalent Chromium	ND	0.138	0.345	mg/kg dry	1	2781071	04/15/2025	04/17/2025	U
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
Boron	0.103		0.0992	mg/L	1	B5D0407	04/04/2025	04/06/2025	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D0401	04/04/2025	04/04/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua
Surrogate: o-Terphenyl	99.4 %			50-150		"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D0425	04/04/2025	04/05/2025	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua

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Max Dahlgren  
Project Number: [none]  
Project: KMG - Miller 2&7-7 Facility

**SEP-B02@4'**

**4/3/2025 1:35:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0112-03 (Soil)  
Origins Laboratory**

**GBTEX+TMBs by 8260D**

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5D0425	04/04/2025	04/05/2025	Ua
Surrogate: 1,2-Dichloroethane-d4	130 %			70-130		"	"	"	
Surrogate: Toluene-d8	100 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	0.840		0.499	meq/L	10	[CALC]	04/07/2025	04/09/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5D0432	04/04/2025	04/04/2025	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	0.006		0.005	"	"	"	"	"	
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua

Origins Laboratory



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Absaroka  
112 High St.  
Buffalo WY 82834

Max Dahlgren  
Project Number: [none]  
Project: KMG - Miller 2&7-7 Facility

SEP-B02@4'

4/3/2025 1:35:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5D0112-03 (Soil) Origins Laboratory</b>									
<b>PAH by EPA 8270E extracted via 3580A</b>									
Chrysene	ND		0.020	mg/kg	1	B5D0432	04/04/2025	04/04/2025	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua
Surrogate: Fluorene-d10	98.2 %			60-130		"	"	"	
Surrogate: Anthracene-d10	99.6 %			60-130		"	"	"	
Surrogate: Pyrene-d10	98.2 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	96.3 %			60-130		"	"	"	
<b>pH in Soil by 9045D</b>									
pH	7.21			pH Units	1	B5D0721	04/07/2025	04/09/2025	
<b>SAR by 20B Saturated Paste</b>									
SAR	ND		0.0100	SAR	1	B5D0717	04/07/2025	04/09/2025	Ua
<b>Specific Conductance Mod. 9050A</b>									

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Absaroka  
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 Buffalo WY 82834

Max Dahlgren  
 Project Number: [none]  
 Project: KMG - Miller 2&7-7 Facility

SEP-B02@4'  
 4/3/2025 1:35:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5D0112-03 (Soil) Origins Laboratory</b>									
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.108		0.00500	mmhos/cm	1	B5D0721	04/07/2025	04/09/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	4.38		0.249	mg/kg	10	B5D0436	04/04/2025	04/06/2025	
Barium	97.1		8.58	"	"	"	"	"	
Cadmium	0.633		0.0858	"	"	"	"	"	
Copper	19.1		8.58	"	"	"	"	"	
Lead	29.2		0.858	"	"	"	"	"	
Nickel	7.95		0.858	"	"	"	"	"	
Selenium	0.393		0.223	"	"	"	"	"	
Silver	0.282		0.0858	"	"	"	"	"	
Zinc	77.1		31.8	"	"	"	"	"	

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 Project Number: [none]  
 Project: KMG - Miller 2&7-7 Facility

SEP-B02@4'

4/3/2025 1:35:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5D0112-03RE1 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	3.25		0.244	mg/kg	10	B5D2335	04/04/2025	04/24/2025	
Barium	84.7		8.43	"	"	"	"	"	
Cadmium	0.513		0.0843	"	"	"	"	"	
Copper	15.5		8.43	"	"	"	"	"	
Lead	21.7		0.843	"	"	"	"	"	
Nickel	6.61		0.843	"	"	"	"	"	
Selenium	ND		0.219	"	"	"	"	"	Ua
Silver	0.252		0.0843	"	"	"	"	"	
Zinc	60.7		31.2	"	"	"	"	"	

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 Project Number: [none]  
 Project: KMG - Miller 2&7-7 Facility

SEP-B02@4'  
 4/3/2025 1:35:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5D0112-03RE2 (Soil) Origins Laboratory</b>									
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	2.89		0.255	mg/kg	10	B5D2335	04/04/2025	04/24/2025	
Barium	84.3		8.80	"	"	"	"	"	
Cadmium	0.392		0.0880	"	"	"	"	"	
Copper	12.6		8.80	"	"	"	"	"	
Lead	16.4		0.880	"	"	"	"	"	
Nickel	6.41		0.880	"	"	"	"	"	
Selenium	ND		0.229	"	"	"	"	"	Ua
Silver	0.168		0.0880	"	"	"	"	"	
Zinc	53.2		32.6	"	"	"	"	"	

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Project Number: [none]  
Project: KMG - Miller 2&7-7 Facility

**PW-B01@4'**

**4/3/2025 1:40:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5D0112-04 (Soil)</b>									
<b>GEL Laboratories, LLC</b>									
<b>Total Metals 7196A</b>									
Hexavalent Chromium	ND	0.136	0.341	mg/kg dry	1	2781071	04/15/2025	04/17/2025	U
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
Boron	ND		0.0995	mg/L	1	B5D0407	04/04/2025	04/06/2025	Ua
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D0401	04/04/2025	04/04/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua
Surrogate: o-Terphenyl	105 %			50-150		"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D0425	04/04/2025	04/05/2025	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua

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112 High St.  
Buffalo WY 82834

Max Dahlgren  
Project Number: [none]  
Project: KMG - Miller 2&7-7 Facility

**PW-B01@4'**

**4/3/2025 1:40:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0112-04 (Soil)  
Origins Laboratory**

**GBTEX+TMBs by 8260D**

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5D0425	04/04/2025	04/05/2025	Ua
Surrogate: 1,2-Dichloroethane-d4	124 %			70-130		"	"	"	
Surrogate: Toluene-d8	101 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	0.936		0.499	meq/L	10	[CALC]	04/07/2025	04/09/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5D0432	04/04/2025	04/04/2025	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	0.007		0.005	"	"	"	"	"	
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua

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112 High St.  
Buffalo WY 82834

Max Dahlgren  
Project Number: [none]  
Project: KMG - Miller 2&7-7 Facility

**PW-B01@4'**

**4/3/2025 1:40:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0112-04 (Soil)  
Origins Laboratory**

**PAH by EPA 8270E extracted via 3580A**

Chrysene	ND		0.020	mg/kg	1	B5D0432	04/04/2025	04/04/2025	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	98.6 %			60-130		"	"	"	
Surrogate: Anthracene-d10	97.3 %			60-130		"	"	"	
Surrogate: Pyrene-d10	98.4 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.3 %			60-130		"	"	"	

**pH in Soil by 9045D**

pH	8.32			pH Units	1	B5D0721	04/07/2025	04/09/2025	
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**SAR by 20B Saturated Paste**

SAR	ND		0.0100	SAR	1	B5D0717	04/07/2025	04/09/2025	Ua
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**Specific Conductance Mod. 9050A**

Origins Laboratory



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 112 High St.  
 Buffalo WY 82834

Max Dahlgren  
 Project Number: [none]  
 Project: KMG - Miller 2&7-7 Facility

**PW-B01@4'**

**4/3/2025 1:40:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0112-04 (Soil)**  
**Origins Laboratory**

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.197		0.00500	mmhos/cm	1	B5D0721	04/07/2025	04/09/2025	
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**Table 915 metals by EPA 6020B**

Arsenic	3.01		0.262	mg/kg	10	B5D0436	04/04/2025	04/06/2025	
Barium	69.2		9.02	"	"	"	"	"	"
Cadmium	0.212		0.0902	"	"	"	"	"	"
Copper	9.82		9.02	"	"	"	"	"	"
Lead	11.9		0.902	"	"	"	"	"	"
Nickel	5.89		0.902	"	"	"	"	"	"
Selenium	0.303		0.235	"	"	"	"	"	"
Silver	0.102		0.0902	"	"	"	"	"	"
Zinc	38.2		33.4	"	"	"	"	"	"

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112 High St.  
Buffalo WY 82834

Max Dahlgren  
Project Number: [none]  
Project: KMG - Miller 2&7-7 Facility

**PW-W01@2'**  
**4/3/2025 1:50:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5D0112-05 (Soil)</b>									
<b>GEL Laboratories, LLC</b>									
<b>Total Metals 7196A</b>									
Hexavalent Chromium	ND	0.158	0.394	mg/kg dry	1	2781071	04/15/2025	04/17/2025	U
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
Boron	0.163		0.0997	mg/L	1	B5D0407	04/04/2025	04/06/2025	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D0401	04/04/2025	04/04/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua
Surrogate: o-Terphenyl	105 %			50-150		"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D0425	04/04/2025	04/05/2025	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua

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Absaroka  
112 High St.  
Buffalo WY 82834

Max Dahlgren  
Project Number: [none]  
Project: KMG - Miller 2&7-7 Facility

PW-W01@2'  
4/3/2025 1:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0112-05 (Soil)  
Origins Laboratory**

**GBTEX+TMBs by 8260D**

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5D0425	04/04/2025	04/05/2025	Ua
Surrogate: 1,2-Dichloroethane-d4	126 %			70-130		"	"	"	
Surrogate: Toluene-d8	102 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	0.991		0.499	meq/L	10	[CALC]	04/07/2025	04/09/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5D0432	04/04/2025	04/04/2025	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	0.021		0.005	"	"	"	"	"	
Benzo (a) pyrene	0.027		0.020	"	"	"	"	"	
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	0.028		0.020	"	"	"	"	"	

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Absaroka  
112 High St.  
Buffalo WY 82834

Max Dahlgren  
Project Number: [none]  
Project: KMG - Miller 2&7-7 Facility

**PW-W01@2'**  
**4/3/2025 1:50:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0112-05 (Soil)**  
**Origins Laboratory**

**PAH by EPA 8270E extracted via 3580A**

Dibenz (a,h) anthracene	ND		0.020	mg/kg	1	B5D0432	04/04/2025	04/04/2025	Ua
Fluoranthene	0.023		0.020	"	"	"	"	"	
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	0.035		0.020	"	"	"	"	"	
Surrogate: Fluorene-d10	98.9 %			60-130		"	"	"	
Surrogate: Anthracene-d10	96.6 %			60-130		"	"	"	
Surrogate: Pyrene-d10	96.6 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	96.4 %			60-130		"	"	"	

**pH in Soil by 9045D**

pH	8.29			pH Units	1	B5D0721	04/07/2025	04/09/2025	
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**SAR by 20B Saturated Paste**

SAR	ND		0.0100	SAR	1	B5D0717	04/07/2025	04/09/2025	Ua
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.183		0.00500	mmhos/cm	1	B5D0721	04/07/2025	04/09/2025	
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Absaroka  
 112 High St.  
 Buffalo WY 82834

Max Dahlgren  
 Project Number: [none]  
 Project: KMG - Miller 2&7-7 Facility

PW-W01@2'  
 4/3/2025 1:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5D0112-05 (Soil) Origins Laboratory</b>									
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	3.74		0.288	mg/kg	10	B5D0436	04/04/2025	04/06/2025	
Barium	95.4		9.92	"	"	"	"	"	"
Cadmium	0.350		0.0992	"	"	"	"	"	"
Copper	13.2		9.92	"	"	"	"	"	"
Lead	16.9		0.992	"	"	"	"	"	"
Nickel	7.01		0.992	"	"	"	"	"	"
Selenium	0.356		0.258	"	"	"	"	"	"
Silver	0.161		0.0992	"	"	"	"	"	"
Zinc	54.5		36.7	"	"	"	"	"	"

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Buffalo WY 82834

Max Dahlgren  
Project Number: [none]  
Project: KMG - Miller 2&7-7 Facility

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5D0407 - DTPA Sorbitol Preparation**

**Blank (B5D0407-BLK1)**

Prepared: 04/04/2025 Analyzed: 04/06/2025

Boron	ND	0.100	mg/L							Ua
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**Duplicate (B5D0407-DUP1)**

**Source: E5D0111-01**

Prepared: 04/04/2025 Analyzed: 04/06/2025

Boron	0.277	0.0997	mg/L		0.326			16.2	50	
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**Batch B5D0717 - Saturated Paste Metals**

**Blank (B5D0717-BLK1)**

Prepared: 04/07/2025 Analyzed: 04/09/2025

SAR	ND	0.0100	SAR							Ua
Calcium PPM	ND	10.0	mg/L							Ua
Magnesium PPM	ND	10.0	"							Ua
Sodium PPM	ND	10.0	"							Ua

**Duplicate (B5D0717-DUP1)**

**Source: E5D0108-06**

Prepared: 04/07/2025 Analyzed: 04/09/2025

SAR	ND	0.0100	SAR	ND					200	Ua
Calcium PPM	46.9	10.0	mg/L	55.4				16.7	50	
Magnesium PPM	5.13	10.0	"	6.00				15.6	50	Ua
Sodium PPM	3.15	10.0	"	3.34				5.86	50	Ua

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Max Dahlgren  
 Project Number: [none]  
 Project: KMG - Miller 2&7-7 Facility

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5D0432 - EPA 3580**

**Blank (B5D0432-BLK1)**

Prepared: 04/04/2025 Analyzed: 04/04/2025

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Pyrene	ND	0.020	"							Ua

Surrogate: Fluorene-d10	200		ug/kg	200		98.9	60-130			
Surrogate: Anthracene-d10	200		"	200		99.6	60-130			
Surrogate: Pyrene-d10	200		"	200		98.6	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.3	60-130			

**LCS (B5D0432-BS1)**

Prepared: 04/04/2025 Analyzed: 04/04/2025

1-Methylnaphthalene	0.185	0.002	mg/kg	0.200		92.4	70-130			
2-Methylnaphthalene	0.184	0.002	"	0.200		92.2	70-130			
Acenaphthene	0.190	0.020	"	0.200		94.9	70-130			
Anthracene	0.192	0.020	"	0.200		95.8	70-130			
Benzo (a) anthracene	0.209	0.005	"	0.200		104	70-130			
Benzo (a) pyrene	0.197	0.020	"	0.200		98.5	70-130			

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Project Number: [none]  
Project: KMG - Miller 2&7-7 Facility

## EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch B5D0432 - EPA 3580

#### LCS (B5D0432-BS1)

Prepared: 04/04/2025 Analyzed: 04/04/2025

Benzo (b) fluoranthene	0.174	0.020	mg/kg	0.200		86.8	70-130			
Benzo (k) fluoranthene	0.197	0.020	"	0.200		98.7	70-130			
Chrysene	0.196	0.020	"	0.200		98.1	70-130			
Dibenz (a,h) anthracene	0.211	0.020	"	0.200		106	70-130			
Fluoranthene	0.201	0.020	"	0.200		101	70-130			
Fluorene	0.195	0.020	"	0.200		97.7	70-130			
Indeno (1,2,3-cd) pyrene	0.207	0.020	"	0.200		104	70-130			
Naphthalene	0.190	0.002	"	0.200		95.1	70-130			
Pyrene	0.205	0.020	"	0.200		103	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.8	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	200		"	200		98.2	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.7	60-130			

#### Matrix Spike (B5D0432-MS1)

Source: E5D0107-01

Prepared: 04/04/2025 Analyzed: 04/04/2025

1-Methylnaphthalene	0.202	0.002	mg/kg	0.200	0.002	99.9	70-130			
2-Methylnaphthalene	0.209	0.002	"	0.200	0.004	102	70-130			
Acenaphthene	0.202	0.020	"	0.200	0.0007	101	70-130			
Anthracene	0.197	0.020	"	0.200	0.004	96.3	70-130			
Benzo (a) anthracene	0.233	0.005	"	0.200	0.005	114	70-130			
Benzo (a) pyrene	0.212	0.020	"	0.200	0.007	103	70-130			
Benzo (b) fluoranthene	0.208	0.020	"	0.200	0.006	101	70-130			
Benzo (k) fluoranthene	0.219	0.020	"	0.200	0.006	107	70-130			
Chrysene	0.222	0.020	"	0.200	0.008	107	70-130			
Dibenz (a,h) anthracene	0.231	0.020	"	0.200	0.004	113	70-130			
Fluoranthene	0.215	0.020	"	0.200	0.005	105	70-130			
Fluorene	0.203	0.020	"	0.200	0.001	101	70-130			

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5D0432 - EPA 3580**

**Matrix Spike (B5D0432-MS1)**

Source: E5D0107-01

Prepared: 04/04/2025 Analyzed: 04/04/2025

Indeno (1,2,3-cd) pyrene	0.225	0.020	mg/kg	0.200	0.005	110	70-130			
Naphthalene	0.205	0.002	"	0.200	0.002	102	70-130			
Pyrene	0.221	0.020	"	0.200	0.006	108	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		97.8	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	190		"	200		97.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.6	60-130			

**Matrix Spike Dup (B5D0432-MSD1)**

Source: E5D0107-01

Prepared: 04/04/2025 Analyzed: 04/04/2025

1-Methylnaphthalene	0.201	0.002	mg/kg	0.200	0.002	99.7	70-130	0.201	20	
2-Methylnaphthalene	0.206	0.002	"	0.200	0.004	101	70-130	1.61	20	
Acenaphthene	0.200	0.020	"	0.200	0.0007	99.8	70-130	0.921	20	
Anthracene	0.214	0.020	"	0.200	0.004	105	70-130	8.06	20	
Benzo (a) anthracene	0.231	0.005	"	0.200	0.005	113	70-130	1.09	20	
Benzo (a) pyrene	0.208	0.020	"	0.200	0.007	100	70-130	2.23	20	
Benzo (b) fluoranthene	0.204	0.020	"	0.200	0.006	99.4	70-130	1.80	20	
Benzo (k) fluoranthene	0.211	0.020	"	0.200	0.006	103	70-130	3.78	20	
Chrysene	0.220	0.020	"	0.200	0.008	106	70-130	0.811	20	
Dibenz (a,h) anthracene	0.226	0.020	"	0.200	0.004	111	70-130	2.30	20	
Fluoranthene	0.220	0.020	"	0.200	0.005	108	70-130	2.60	20	
Fluorene	0.204	0.020	"	0.200	0.001	101	70-130	0.354	20	
Indeno (1,2,3-cd) pyrene	0.225	0.020	"	0.200	0.005	110	70-130	0.0509	20	
Naphthalene	0.206	0.002	"	0.200	0.002	102	70-130	0.242	20	
Pyrene	0.219	0.020	"	0.200	0.006	107	70-130	0.859	20	
Surrogate: Fluorene-d10	200		ug/kg	200		98.7	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	200		"	200		97.6	60-130			

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Project Number: [none]  
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**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D0432 - EPA 3580

Matrix Spike Dup (B5D0432-MSD1)

Source: E5D0107-01

Prepared: 04/04/2025 Analyzed: 04/04/2025

Surrogate: Benzo (a) pyrene-d12	190		ug/kg	200		96.6	60-130			
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**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5D0401 - EPA 3550B**

**Blank (B5D0401-BLK1)**

Prepared: 04/04/2025 Analyzed: 04/04/2025

Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	26		"	24.9		104	50-150			

**LCS (B5D0401-BS1)**

Prepared: 04/04/2025 Analyzed: 04/04/2025

Diesel (C10-C28)	1100	50.0	mg/kg	1000		110	70-130			
Residual Range Organics (C28-C40)	1190	200	"	1000		119	70-130			
Surrogate: o-Terphenyl	57		"	49.8		115	50-150			

**Matrix Spike (B5D0401-MS1)**

**Source: E5D0073-01**

Prepared: 04/04/2025 Analyzed: 04/04/2025

Diesel (C10-C28)	910	50.0	mg/kg	1000	ND	91.0	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

**Matrix Spike Dup (B5D0401-MSD1)**

**Source: E5D0073-01**

Prepared: 04/04/2025 Analyzed: 04/04/2025

Diesel (C10-C28)	979	50.0	mg/kg	1000	ND	97.9	70-130	7.31	35	
Residual Range Organics (C28-C40)	1080	200	"	1000	ND	108	70-130	6.50	35	
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

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 Project Number: [none]  
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**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5D0436 - EPA 3050B**

**Blank (B5D0436-BLK1)**

Prepared: 04/04/2025 Analyzed: 04/06/2025

Arsenic	ND	0.290	mg/kg							Ua
Barium	ND	10.0	"							Ua
Cadmium	ND	0.100	"							Ua
Copper	ND	10.0	"							Ua
Lead	ND	1.00	"							Ua
Nickel	ND	1.00	"							Ua
Selenium	ND	0.260	"							Ua
Zinc	ND	37.0	"							Ua

**LCS (B5D0436-BS1)**

Prepared: 04/04/2025 Analyzed: 04/06/2025

Arsenic	5.74	0.290	mg/kg	5.00		115	80-120			
Barium	585	10.0	"	500		117	80-120			
Cadmium	5.96	0.100	"	5.00		119	80-120			
Copper	54.1	10.0	"	50.0		108	80-120			
Lead	5.90	1.00	"	5.00		118	80-120			
Nickel	5.76	1.00	"	5.00		115	80-120			
Selenium	5.44	0.260	"	5.00		109	80-120			
Zinc	54.7	37.0	"	50.0		109	80-120			

**Matrix Spike (B5D0436-MS1)**

**Source: E5D0112-02**

Prepared: 04/04/2025 Analyzed: 04/06/2025

Arsenic	10.3	0.274	mg/kg	4.72	6.54	80.2	75-125			
Barium	703	9.44	"	472	121	123	75-125			
Cadmium	6.35	0.0944	"	4.72	1.40	105	75-125			
Copper	76.4	9.44	"	47.2	37.5	82.5	75-125			
Lead	40.8	0.944	"	4.72	60.6	NR	75-125			QM-4X
Nickel	16.3	0.944	"	4.72	11.9	93.2	75-125			
Selenium	5.54	0.245	"	4.72	0.584	105	75-125			

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Project Number: [none]  
Project: KMG - Miller 2&7-7 Facility

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5D0436 - EPA 3050B**

**Matrix Spike (B5D0436-MS1)**

Source: E5D0112-02

Prepared: 04/04/2025 Analyzed: 04/06/2025

Zinc	156	34.9	mg/kg	47.2	152	8.88	75-125			QM-07
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**Matrix Spike Dup (B5D0436-MSD1)**

Source: E5D0112-02

Prepared: 04/04/2025 Analyzed: 04/06/2025

Arsenic	9.92	0.265	mg/kg	4.57	6.54	74.1	75-125	3.93	20	QM-07
Barium	638	9.14	"	457	121	113	75-125	9.69	20	
Cadmium	6.13	0.0914	"	4.57	1.40	104	75-125	3.57	20	
Copper	72.0	9.14	"	45.7	37.5	75.6	75-125	5.91	20	
Lead	42.5	0.914	"	4.57	60.6	NR	75-125	4.19	20	QM-4X
Nickel	15.3	0.914	"	4.57	11.9	73.2	75-125	6.66	20	QM-07
Selenium	5.28	0.238	"	4.57	0.584	103	75-125	4.89	20	
Zinc	150	33.8	"	45.7	152	NR	75-125	4.07	20	QM-07

**Batch B5D2335 - EPA 3050B**

**Blank (B5D2335-BLK1)**

Prepared: 04/23/2025 Analyzed: 04/24/2025

Arsenic	ND	0.290	mg/kg							Ua
Barium	ND	10.0	"							Ua
Cadmium	ND	0.100	"							Ua
Copper	ND	10.0	"							Ua
Lead	ND	1.00	"							Ua
Nickel	ND	1.00	"							Ua
Selenium	ND	0.260	"							Ua
Silver	ND	0.100	"							Ua
Zinc	ND	37.0	"							Ua

**LCS (B5D2335-BS1)**

Prepared: 04/23/2025 Analyzed: 04/24/2025

Arsenic	5.06	0.290	mg/kg	5.00		101	80-120			
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Buffalo WY 82834

Max Dahlgren  
Project Number: [none]  
Project: KMG - Miller 2&7-7 Facility

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5D2335 - EPA 3050B**

**LCS (B5D2335-BS1)**

Prepared: 04/23/2025 Analyzed: 04/24/2025

Barium	520	10.0	mg/kg	500		104	80-120			
Cadmium	5.35	0.100	"	5.00		107	80-120			
Copper	52.4	10.0	"	50.0		105	80-120			
Lead	5.42	1.00	"	5.00		108	80-120			
Nickel	5.21	1.00	"	5.00		104	80-120			
Selenium	5.16	0.260	"	5.00		103	80-120			
Silver	5.44	0.100	"	5.00		109	80-120			
Zinc	50.9	37.0	"	50.0		102	80-120			

**Matrix Spike (B5D2335-MS1)**

**Source: E5D0013-01RE1**

Prepared: 04/23/2025 Analyzed: 04/24/2025

Arsenic	11.3	0.288	mg/kg	4.96	5.75	113	75-125			
Barium	747	9.92	"	496	214	108	75-125			
Cadmium	5.77	0.0992	"	4.96	0.322	110	75-125			
Copper	69.9	9.92	"	49.6	16.4	108	75-125			
Lead	24.2	0.992	"	4.96	15.7	172	75-125			QM-07
Nickel	21.3	0.992	"	4.96	15.7	113	75-125			
Selenium	5.39	0.258	"	4.96	0.253	104	75-125			
Silver	5.61	0.0992	"	4.96	0.106	111	75-125			
Zinc	115	36.7	"	49.6	58.1	115	75-125			

**Matrix Spike Dup (B5D2335-MSD1)**

**Source: E5D0013-01RE1**

Prepared: 04/23/2025 Analyzed: 04/24/2025

Arsenic	10.6	0.281	mg/kg	4.84	5.75	101	75-125	6.44	20	
Barium	728	9.68	"	484	214	106	75-125	2.59	20	
Cadmium	5.42	0.0968	"	4.84	0.322	105	75-125	6.23	20	
Copper	64.9	9.68	"	48.4	16.4	100	75-125	7.48	20	
Lead	20.4	0.968	"	4.84	15.7	96.6	75-125	17.2	20	
Nickel	19.8	0.968	"	4.84	15.7	86.2	75-125	6.84	20	

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Max Dahlgren  
Project Number: [none]  
Project: KMG - Miller 2&7-7 Facility

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2335 - EPA 3050B

Matrix Spike Dup (B5D2335-MSD1)

Source: E5D0013-01RE1

Prepared: 04/23/2025 Analyzed: 04/24/2025

Selenium	4.96	0.252	mg/kg	4.84	0.253	97.3	75-125	8.29	20	
Silver	5.25	0.0968	"	4.84	0.106	106	75-125	6.63	20	
Zinc	105	35.8	"	48.4	58.1	97.2	75-125	8.96	20	

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 Project Number: [none]  
 Project: KMG - Miller 2&7-7 Facility

**Saturated Paste - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5D0721 - Saturated Paste pH/EC**

**Blank (B5D0721-BLK1)**

Prepared: 04/07/2025 Analyzed: 04/09/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							Ua
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**Duplicate (B5D0721-DUP1)**

**Source: E5D0108-06**

Prepared: 04/07/2025 Analyzed: 04/09/2025

Specific Conductance (EC)	0.354	0.00500	mmhos/cm		0.386			8.78	25	
pH	7.94		pH Units		7.96			0.252	25	

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Project Number: [none]  
Project: KMG - Miller 2&7-7 Facility

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5D0425 - EPA 5030 (soil)**

**Blank (B5D0425-BLK1)**

Prepared: 04/04/2025 Analyzed: 04/04/2025

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua

Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

**LCS (B5D0425-BS1)**

Prepared: 04/04/2025 Analyzed: 04/04/2025

1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100		111	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Benzene	0.0868	0.00200	"	0.100		86.8	70-130			
Ethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Naphthalene	0.116	0.00380	"	0.100		116	70-130			
Toluene	0.100	0.00200	"	0.100		100	70-130			
o-Xylene	0.109	0.00200	"	0.100		109	70-130			
m,p-Xylene	0.216	0.00400	"	0.200		108	70-130			

Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

**Matrix Spike (B5D0425-MS1)**

Source: E5D0107-01

Prepared: 04/04/2025 Analyzed: 04/04/2025

1,2,4-Trimethylbenzene	0.113	0.00200	mg/kg	0.100	0.00246	111	70-130			
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Absaroka  
112 High St.  
Buffalo WY 82834

Max Dahlgren  
Project Number: [none]  
Project: KMG - Miller 2&7-7 Facility

## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch B5D0425 - EPA 5030 (soil)

#### Matrix Spike (B5D0425-MS1)

Source: E5D0107-01

Prepared: 04/04/2025 Analyzed: 04/04/2025

1,3,5-Trimethylbenzene	0.114	0.00200	mg/kg	0.100	0.00106	113	70-130			
Benzene	0.0888	0.00200	"	0.100	ND	88.8	70-130			
Ethylbenzene	0.118	0.00200	"	0.100	0.000520	118	70-130			
Naphthalene	0.0789	0.00380	"	0.100	ND	78.9	70-130			
Toluene	0.106	0.00200	"	0.100	0.00432	101	70-130			
o-Xylene	0.120	0.00200	"	0.100	0.00172	118	70-130			
m,p-Xylene	0.244	0.00400	"	0.200	0.00474	120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	70-130			

#### Matrix Spike Dup (B5D0425-MSD1)

Source: E5D0107-01

Prepared: 04/04/2025 Analyzed: 04/04/2025

1,2,4-Trimethylbenzene	0.0986	0.00200	mg/kg	0.100	0.00246	96.1	70-130	14.0	20	
1,3,5-Trimethylbenzene	0.0974	0.00200	"	0.100	0.00106	96.3	70-130	15.5	20	
Benzene	0.0851	0.00200	"	0.100	ND	85.1	70-130	4.30	20	
Ethylbenzene	0.101	0.00200	"	0.100	0.000520	100	70-130	15.7	20	
Naphthalene	0.0857	0.00380	"	0.100	ND	85.7	70-130	8.26	20	
Toluene	0.0992	0.00200	"	0.100	0.00432	94.9	70-130	6.30	20	
o-Xylene	0.106	0.00200	"	0.100	0.00172	104	70-130	12.3	20	
m,p-Xylene	0.212	0.00400	"	0.200	0.00474	103	70-130	14.3	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		118	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

Origins Laboratory



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Absaroka  
 112 High St.  
 Buffalo WY 82834

Max Dahlgren  
 Project Number: [none]  
 Project: KMG - Miller 2&7-7 Facility

**Total Metals 7196A - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2781071 - SW846 3060A

**BLANK (1206069467-BLK)**

Prepared: 04/15/2025 Analyzed: 04/17/2025

Hexavalent Chromium	ND	0.369	mg/kg				-			U
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**LCS (1206069468-BKS)**

Prepared: 04/15/2025 Analyzed: 04/17/2025

Hexavalent Chromium	3.76	0.378	mg/kg	3.78		99.3	80-120			
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**DUP (1206069469 D)**

Source: 717881001

Prepared: 04/15/2025 Analyzed: 04/17/2025

Hexavalent Chromium	ND	0.476	mg/kg dry		<0.190		0-50	N/A	50	U
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**MS (1206069470 S)**

Source: 717881001

Prepared: 04/15/2025 Analyzed: 04/17/2025

Hexavalent Chromium	2.31	0.480	mg/kg dry	4.80	<0.192	47.9	75-125			
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**DUP (1206069471 D)**

Source: 717881002

Prepared: 04/15/2025 Analyzed: 04/17/2025

Hexavalent Chromium	ND	0.466	mg/kg dry		<0.186		0-50	N/A	50	U
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**MS (1206069472 S)**

Source: 717881002

Prepared: 04/15/2025 Analyzed: 04/17/2025

Hexavalent Chromium	3.81	0.411	mg/kg dry	4.11	<0.164	91.3	75-125			
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**ILCS (1206069473-ILCS)**

Prepared: 04/15/2025 Analyzed: 04/17/2025

Hexavalent Chromium	7.73	0.375	mg/kg	7.57		102	80-120			
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Absaroka  
112 High St.  
Buffalo WY 82834

Max Dahlgren  
Project Number: [none]  
Project: KMG - Miller 2&7-7 Facility

## Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory



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