



Absaroka

Max Dahlgren

112 High St.

Buffalo

WY

82834

October 22, 2025

Project Name - KMG - Marcus St W 36-6J WH

Project Number - [none]

Attached are your analytical results for KMG - Marcus St W 36-6J WH received by Origins Laboratory August 19, 2025. This project is associated with Origins project number E5H0429-01.

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.

The laboratory is TNI accredited by the Utah DHHS ELAP under certificate number CO010822024.

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





Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Marcus St W 36-6J WH

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@6'	E5H0429-01	Soil	August 19, 2025 8:30	08/19/2025 12:20
WH-Riser@4'	E5H0429-02	Soil	August 19, 2025 9:15	08/19/2025 12:20
BG01@3"	E5H0429-03	Soil	August 19, 2025 9:20	08/19/2025 12:20
BG01@3'	E5H0429-04	Soil	August 19, 2025 9:25	08/19/2025 12:20
BG01@6'	E5H0429-05	Soil	August 19, 2025 9:30	08/19/2025 12:20
BG02@3"	E5H0429-06	Soil	August 19, 2025 9:35	08/19/2025 12:20
BG02@3'	E5H0429-07	Soil	August 19, 2025 9:40	08/19/2025 12:20
BG02@6'	E5H0429-08	Soil	August 19, 2025 9:45	08/19/2025 12:20
BG03@3"	E5H0429-09	Soil	August 19, 2025 9:50	08/19/2025 12:20
BG03@3'	E5H0429-10	Soil	August 19, 2025 9:55	08/19/2025 12:20
BG03@6'	E5H0429-11	Soil	August 19, 2025 10:00	08/19/2025 12:20
BG04@3"	E5H0429-12	Soil	August 19, 2025 10:05	08/19/2025 12:20
BG04@3'	E5H0429-13	Soil	August 19, 2025 10:10	08/19/2025 12:20
BG04@6'	E5H0429-14	Soil	August 19, 2025 10:15	08/19/2025 12:20

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Absaroka

112 High St.

Buffalo WY 82834

Max Dahlgren

Project Number: [none]

Project: KMG - Marcus St W 36-6J WH

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@6V	E5H0429-15	Soil	August 19, 2025 10:20	08/19/2025 12:20
WH-Riser@4V	E5H0429-16	Soil	August 19, 2025 10:25	08/19/2025 12:20

Reruns added to the following samples per Max Dahlgren's email on 9/15/25 EHS:

WH-B01@6 for lead. No errors were found in the original data, all results are reported. EHS

WH-Riser@4' for lead and zinc. No errors were found in the original data, however, the sample displayed non-homogeneity.

All results are reported. EHS

Origins Laboratory

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ORIGINS LABORATORY

Absaroka
112 High St.
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Max Dahlgren
Project Number: [none]
Project: KMG - Marcus St W 36-6J WH

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LABORATORY

ESH0429

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Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis			Comments
						Full 915	Boron	pH, SAR, EC	
WH-B0106'	8/19/25	8:30	3	S	WNP	X			Tests added
WH-Ascece4'		9:15	3			X			Per marks
B60103'		9:20	2			X			email on
B60103'		9:25				X			
B60106'		9:30				X			9/15/25 EHO
B60203"		9:35				X			
B60203'		9:40				X			
B60206'		9:45				X			
B60303"		9:50				X			
B60303'		9:55				X			

Reinforced By: AK Date: 8/19/25 Time: 12:00 Received By: NB Date: 8/19/25 Time: 12:20
 Turnaround Time: 48 Hr 72 DAY SAME DAY

Temp Received -3 3°C Received On Ice? Yes No

Client: OXY / Absaroka
 Project Manager: Max Dahlgren
 Project Name: Marcus St W 36-6J Wellhead
 Telephone Number: 970-881-6999
 Project Number: [none]
 Email Address: ae2oxyreports@absarokasolutions.com
 Collected By: AK
 Invoice/Billing Info: On File - Oxy
 Key: CHL-Crunchwater
 SW- Surface Water
 WW- Waste Water

Origins Laboratory
EHO

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ORIGINS LABORATORY

Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Marcus St W 36-6J WH

ORIGINS
LABORATORY

ESH0429


Page 2 of 2

Client: OXY / Absaroka
 Address: _____
 Project Manager: Max Dahlgren
 Project Name: Marcus St W 36-6J WH
 Project Number: _____
 Telephone Number: 970-481-6919
 Email Address: ada@reports@absarokasolutions.com
 Collected By: _____
 Invoice/Billing Info: _____
 On file - Oxy _____
 SW - Surface Water _____
 WW - Waste Water _____

5-Soil | 50-Solid | 0-GUI | 4-Air | 16-Tree | 18Hr-Dupes | 11E- Hydrochloric | 11MOS mine | H2SO4 sulfur | 11MOH sodium hydroxide

Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis			Comments
						Full 915	Boron	pH, SAR, EC	
B603061	8/19	10:00	2	S	UNP	XXXX	XXXX	XXXX	
B604031		11:10	1			XXXX	XXXX	XXXX	
B601061		11:15	1			XXXX	XXXX	XXXX	
WT-B01061.V		10:20					XXXX	XXXX	
WT-A01061.V		10:25					XXXX	XXXX	

Requisitioned By: _____ Date: 8/19/25 Time: 12:20
 Received By: NB Date: 8/19/25 Time: 12:20
 Turnaround Time: SAME DAY 24 48 Hr 72
 Temp Received: 3-3 °C Received On Ice? Yes No

Origins Laboratory


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Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Marcus St W 36-6J WH

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: ESH0429

Client: Absaroka/OW

Client Project ID: Marcus St W 36-6J WH

Checklist Completed by: NB/TZH

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 8/20/25

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Soil Solid

Water

Other:

(Describe)

Cooler Number/Temperature: 1 / 3.3 °C

Thermometer ID: T007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with Na ₂ CO ₃ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ 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)

08/22/25
Date/Time Reviewed

Origins Laboratory

EHO

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

WH-B01@6'
8/19/2025 8:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0429-01 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	0.889		0.119	mg/L dry	1	B5H2041	08/20/2025	08/22/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		29.8	mg/kg dry	1	B5H2028	08/20/2025	08/21/2025	U
Residual Range Organics (C28-C36)	ND		119	"	"	"	"	"	U
Surrogate: o-Terphenyl	78.7 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B5H2054	08/20/2025	08/23/2025	U
1,3,5-Trimethylbenzene	ND		0.002	"	"	"	"	"	U
Benzene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Xylenes, total	ND		0.002	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.238	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	114 %			70-130		"	"	"	
Surrogate: Toluene-d8	104 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %			70-130		"	"	"	

Origins Laboratory

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 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

WH-B01@6'
8/19/2025 8:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5H0429-01 (Soil)
Origins Laboratory

Metals by Saturated Paste by EPA 6010

Calcium	11.5		0.499	meq/L	10	[CALC]	08/20/2025	08/22/2025	
Magnesium	0.987		0.823	"	"	"	"	"	
Sodium	10.5		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B5H2130	08/21/2025	08/22/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.024	"	"	"	"	"	U
Anthracene	ND		0.024	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.024	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.024	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.024	"	"	"	"	"	U
Chrysene	ND		0.024	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.024	"	"	"	"	"	U
Fluoranthene	ND		0.024	"	"	"	"	"	U
Fluorene	ND		0.024	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.024	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.024	"	"	"	"	"	U

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Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Marcus St W 36-6J WH

WH-B01@6'
8/19/2025 8:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5H0429-01 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	98.1 %			60-130		B5H2130	08/21/2025	08/22/2025	
Surrogate: Anthracene-d10	93.5 %			60-130		"	"	"	
Surrogate: Pyrene-d10	110 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %			60-130		"	"	"	

Percent Solids

Total Solids, Percent	83.9			mass percent	1	B5I0312	09/03/2025	09/05/2025	
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pH in Soil by 9045D

pH	8.94			pH Units	1	B5H2051	08/20/2025	08/22/2025	
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SAR by 20B Saturated Paste

SAR	4.20		0.0100	SAR	1	B5H2047	08/20/2025	08/22/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.13		0.00500	mmhos/cm	1	B5H2051	08/20/2025	08/22/2025	
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Table 915 metals by EPA 6020B

Arsenic	5.11		0.234	mg/kg dry	10	B5H2161	08/21/2025	08/25/2025	
Barium	171		66.0	"	"	"	"	"	

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Marcus St W 36-6J WH

WH-B01@6'
8/19/2025 8:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5H0429-01 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Cadmium	ND		0.306	mg/kg dry	10	B5H2161	08/21/2025	08/25/2025	U
Copper	ND		37.0	"	"	"	"	"	U
Lead	30.8		11.3	"	"	"	"	"	U
Nickel	ND		20.9	"	"	"	"	"	U
Selenium	0.289		0.198	"	"	"	"	"	U
Silver	ND		0.644	"	"	"	"	"	U
Zinc	ND		298	"	"	"	"	"	U

Waypoint Analytical, LLC.

SW-DRYWT

Moisture	15.5	0	0.05	% dry	1	L836121	08/19/2025	08/27/2025	
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.288	0.591	mg/Kg - dry	1	L835584	"	08/25/2025	
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Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Marcus St W 36-6J WH

WH-B01@6'
8/19/2025 8:30:00AM

Analyte	Detection Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0429-01RE1 (Soil)								
Origins Laboratory								
Table 915 metals by EPA 6020B								
Lead	23.3	10.9	mg/kg dry	10	B511543	09/15/2025	09/16/2025	

Origins Laboratory

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112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Marcus St W 36-6J WH

WH-B01@6'

8/19/2025 8:30:00AM

Analyte	Detection Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0429-01RE2 (Soil)								
Origins Laboratory								
Table 915 metals by EPA 6020B								
Lead	40.8	10.8	mg/kg dry	10	B511543	09/15/2025	09/16/2025	

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

WH-Riser@4'
8/19/2025 9:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0429-02 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	0.668		0.118	mg/L dry	1	B5H2041	08/20/2025	08/22/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		29.3	mg/kg dry	1	B5H2028	08/20/2025	08/21/2025	U
Residual Range Organics (C28-C36)	ND		117	"	"	"	"	"	U
Surrogate: o-Terphenyl	77.8 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B5H2054	08/20/2025	08/23/2025	U
1,3,5-Trimethylbenzene	ND		0.002	"	"	"	"	"	U
Benzene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Xylenes, total	ND		0.002	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.235	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	114 %			70-130		"	"	"	
Surrogate: Toluene-d8	104 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %			70-130		"	"	"	

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

WH-Riser@4'
8/19/2025 9:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5H0429-02 (Soil)
Origins Laboratory

Metals by Saturated Paste by EPA 6010

Calcium	22.0		0.499	meq/L	10	[CALC]	08/20/2025	08/22/2025	
Magnesium	8.84		0.823	"	"	"	"	"	
Sodium	5.29		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B5H2130	08/21/2025	08/22/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.023	"	"	"	"	"	U
Anthracene	ND		0.023	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.023	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.023	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.023	"	"	"	"	"	U
Chrysene	ND		0.023	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.023	"	"	"	"	"	U
Fluoranthene	ND		0.023	"	"	"	"	"	U
Fluorene	ND		0.023	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.023	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.023	"	"	"	"	"	U

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

WH-Riser@4'
8/19/2025 9:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5H0429-02 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	99.4 %			60-130		B5H2130	08/21/2025	08/22/2025	
Surrogate: Anthracene-d10	91.6 %			60-130		"	"	"	
Surrogate: Pyrene-d10	110 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %			60-130		"	"	"	

Percent Solids

Total Solids, Percent	85.3			mass percent	1	B5I0312	09/03/2025	09/05/2025	
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pH in Soil by 9045D

pH	7.74			pH Units	1	B5H2051	08/20/2025	08/22/2025	
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SAR by 20B Saturated Paste

SAR	1.35		0.0100	SAR	1	B5H2047	08/20/2025	08/22/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.99		0.00500	mmhos/cm	1	B5H2051	08/20/2025	08/22/2025	
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Table 915 metals by EPA 6020B

Arsenic	4.10		0.246	mg/kg dry	10	B5H2161	08/21/2025	08/25/2025	
Barium	123		69.5	"	"	"	"	"	

Origins Laboratory

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.



Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

WH-Riser@4'
8/19/2025 9:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5H0429-02 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Cadmium	ND		0.322	mg/kg dry	10	B5H2161	08/21/2025	08/25/2025	U
Copper	ND		39.0	"	"	"	"	"	U
Lead	245		11.9	"	"	"	"	"	U
Nickel	ND		22.0	"	"	"	"	"	U
Selenium	0.216		0.208	"	"	"	"	"	U
Silver	ND		0.678	"	"	"	"	"	U
Zinc	569		314	"	"	"	"	"	U

Waypoint Analytical, LLC.

SW-DRYWT

Moisture	17	0	0.05	% dry	1	L836121	08/19/2025	08/27/2025	
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.293	0.602	mg/Kg - dry	1	L835584	"	08/25/2025	
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Origins Laboratory

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.



Absaroka

112 High St.

Buffalo WY 82834

Max Dahlgren

Project Number: [none]

Project: KMG - Marcus St W 36-6J WH

WH-Riser@4'

8/19/2025 9:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0429-02RE1 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Lead	26.2		11.1	mg/kg dry	10	B511543	09/15/2025	09/16/2025	
Zinc	ND		295	"	"	"	"	"	U

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

WH-Riser@4'
8/19/2025 9:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0429-02RE2 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Lead	33.2		11.0	mg/kg dry	10	B511543	09/15/2025	09/16/2025	
Zinc	ND		291	"	"	"	"	"	U

Origins Laboratory

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.



Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

BG01@3"

8/19/2025 9:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0429-03 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	ND		0.107	mg/L dry	1	B5H2041	08/20/2025	08/22/2025	U
Metals by Saturated Paste by EPA 6010									
Calcium	0.990		0.499	meq/L	10	[CALC]	08/20/2025	08/22/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	
Percent Solids									
Total Solids, Percent	93.5			mass percent	1	B5I0312	09/03/2025	09/05/2025	
pH in Soil by 9045D									
pH	6.70			pH Units	1	B5H2051	08/20/2025	08/22/2025	
SAR by 20B Saturated Paste									
SAR	0.459		0.0100	SAR	1	B5H2047	08/20/2025	08/22/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.361		0.00500	mmhos/cm	1	B5H2051	08/20/2025	08/22/2025	

Origins Laboratory

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.



Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

BG01@3"
8/19/2025 9:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5H0429-03 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.02		0.195	mg/kg dry	10	B5H2161	08/21/2025	08/25/2025	
Barium	ND		55.1	"	"	"	"	"	U
Cadmium	ND		0.255	"	"	"	"	"	U
Copper	ND		30.9	"	"	"	"	"	U
Lead	ND		9.41	"	"	"	"	"	U
Nickel	ND		17.5	"	"	"	"	"	U
Selenium	ND		0.165	"	"	"	"	"	U
Silver	ND		0.538	"	"	"	"	"	U
Zinc	ND		249	"	"	"	"	"	U

Waypoint Analytical, LLC.

SW-DRYWT

Moisture	6.84	0	0.05	% dry	1	L836121	08/19/2025	08/27/2025	
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.261	0.536	mg/Kg - dry	1	L835584	"	08/25/2025	
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Origins Laboratory

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.



Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

BG01@3'

8/19/2025 9:25:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0429-04 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	3.84		0.110	mg/L dry	1	B5H2041	08/20/2025	08/22/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	21.9		0.499	meq/L	10	[CALC]	08/20/2025	08/22/2025	
Magnesium	12.3		0.823	"	"	"	"	"	
Sodium	26.2		0.435	"	"	"	"	"	
Percent Solids									
Total Solids, Percent	91.1			mass percent	1	B5I0312	09/03/2025	09/05/2025	
pH in Soil by 9045D									
pH	7.85			pH Units	1	B5H2051	08/20/2025	08/22/2025	
SAR by 20B Saturated Paste									
SAR	6.33		0.0100	SAR	1	B5H2047	08/20/2025	08/22/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	4.67		0.00500	mmhos/cm	1	B5H2051	08/20/2025	08/22/2025	

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

BG01@3'

8/19/2025 9:25:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5H0429-04 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	5.89		0.220	mg/kg dry	10	B5H2161	08/21/2025	08/25/2025	
Barium	346		62.1	"	"	"	"	"	
Cadmium	ND		0.288	"	"	"	"	"	U
Copper	ND		34.8	"	"	"	"	"	U
Lead	12.4		10.6	"	"	"	"	"	
Nickel	ND		19.7	"	"	"	"	"	U
Selenium	0.261		0.186	"	"	"	"	"	
Silver	ND		0.606	"	"	"	"	"	U
Zinc	ND		280	"	"	"	"	"	U

Waypoint Analytical, LLC.

SW-DRYWT

Moisture	11.8	0	0.05	% dry	1	L836121	08/19/2025	08/27/2025	
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.276	0.566	mg/Kg - dry	1	L835584	"	08/25/2025	
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Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

BG01@6'

8/19/2025 9:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0429-05 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	2.58		0.114	mg/L dry	1	B5H2041	08/20/2025	08/22/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	1.74		0.499	meq/L	10	[CALC]	08/20/2025	08/22/2025	
Magnesium	1.43		0.823	"	"	"	"	"	
Sodium	11.6		0.435	"	"	"	"	"	
Percent Solids									
Total Solids, Percent	87.6			mass percent	1	B5I0312	09/03/2025	09/05/2025	
pH in Soil by 9045D									
pH	8.23			pH Units	1	B5H2051	08/20/2025	08/22/2025	
SAR by 20B Saturated Paste									
SAR	9.18		0.0100	SAR	1	B5H2047	08/20/2025	08/22/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	1.59		0.00500	mmhos/cm	1	B5H2051	08/20/2025	08/22/2025	

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

BG01@6'
8/19/2025 9:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5H0429-05 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	7.59		0.210	mg/kg dry	10	B5H2161	08/21/2025	08/25/2025	
Barium	267		59.2	"	"	"	"	"	
Cadmium	ND		0.274	"	"	"	"	"	U
Copper	ND		33.2	"	"	"	"	"	U
Lead	12.5		10.1	"	"	"	"	"	
Nickel	ND		18.8	"	"	"	"	"	U
Selenium	0.293		0.178	"	"	"	"	"	
Silver	ND		0.577	"	"	"	"	"	U
Zinc	ND		267	"	"	"	"	"	U

Waypoint Analytical, LLC.

SW-DRYWT

Moisture	15.1	0	0.05	% dry	1	L836121	08/19/2025	08/27/2025	
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.287	0.588	mg/Kg - dry	1	L835584	"	08/25/2025	
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Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

BG02@3"
8/19/2025 9:35:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0429-06 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	0.251		0.105	mg/L dry	1	B5H2041	08/20/2025	08/22/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	2.66		0.499	meq/L	10	[CALC]	08/20/2025	08/22/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	
Percent Solids									
Total Solids, Percent	95.2			mass percent	1	B5I0312	09/03/2025	09/05/2025	
pH in Soil by 9045D									
pH	7.75			pH Units	1	B5H2051	08/20/2025	08/22/2025	
SAR by 20B Saturated Paste									
SAR	0.0532		0.0100	SAR	1	B5H2047	08/20/2025	08/22/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.431		0.00500	mmhos/cm	1	B5H2051	08/20/2025	08/22/2025	

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

BG02@3"
8/19/2025 9:35:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5H0429-06 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.41		0.222	mg/kg dry	10	B5H2161	08/21/2025	08/25/2025	
Barium	70.0		62.5	"	"	"	"	"	
Cadmium	ND		0.290	"	"	"	"	"	U
Copper	ND		35.1	"	"	"	"	"	U
Lead	11.5		10.7	"	"	"	"	"	
Nickel	ND		19.8	"	"	"	"	"	U
Selenium	ND		0.188	"	"	"	"	"	U
Silver	ND		0.610	"	"	"	"	"	U
Zinc	ND		282	"	"	"	"	"	U

Waypoint Analytical, LLC.

SW- DRYWT

Moisture	6.16	0	0.05	% dry	1	L836122	08/19/2025	08/27/2025	
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.26	0.532	mg/Kg - dry	1	L835804	"	08/26/2025	
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Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

BG02@3'

8/19/2025 9:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0429-07 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	2.42		0.111	mg/L dry	1	B5H2041	08/20/2025	08/22/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	3.91		0.499	meq/L	10	[CALC]	08/20/2025	08/22/2025	
Magnesium	2.66		0.823	"	"	"	"	"	
Sodium	13.2		0.435	"	"	"	"	"	
Percent Solids									
Total Solids, Percent	89.9			mass percent	1	B5I0312	09/03/2025	09/05/2025	
pH in Soil by 9045D									
pH	8.13			pH Units	1	B5H2051	08/20/2025	08/22/2025	
SAR by 20B Saturated Paste									
SAR	7.30		0.0100	SAR	1	B5H2047	08/20/2025	08/22/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	1.90		0.00500	mmhos/cm	1	B5H2051	08/20/2025	08/22/2025	

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

BG02@3'
8/19/2025 9:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5H0429-07 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	6.04		0.212	mg/kg dry	10	B5H2161	08/21/2025	08/25/2025	
Barium	192		59.9	"	"	"	"	"	
Cadmium	ND		0.278	"	"	"	"	"	U
Copper	ND		33.6	"	"	"	"	"	U
Lead	12.1		10.2	"	"	"	"	"	
Nickel	ND		19.0	"	"	"	"	"	U
Selenium	0.313		0.180	"	"	"	"	"	
Silver	ND		0.584	"	"	"	"	"	U
Zinc	ND		270	"	"	"	"	"	U

Waypoint Analytical, LLC.

SW- DRYWT

Moisture	10.9	0	0.05	% dry	1	L836122	08/19/2025	08/27/2025	
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.273	0.561	mg/Kg - dry	1	L835804	"	08/26/2025	
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Origins Laboratory

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.



Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

BG02@6'

8/19/2025 9:45:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0429-08 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	2.63		0.117	mg/L dry	1	B5H2041	08/20/2025	08/22/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	20.2		0.499	meq/L	10	[CALC]	08/20/2025	08/22/2025	
Magnesium	20.6		0.823	"	"	"	"	"	
Sodium	47.7		0.435	"	"	"	"	"	
Percent Solids									
Total Solids, Percent	85.8			mass percent	1	B5I0312	09/03/2025	09/05/2025	
pH in Soil by 9045D									
pH	7.92			pH Units	1	B5H2051	08/20/2025	08/22/2025	
SAR by 20B Saturated Paste									
SAR	10.6		0.0100	SAR	1	B5H2047	08/20/2025	08/22/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	6.42		0.00500	mmhos/cm	1	B5H2051	08/20/2025	08/22/2025	

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

BG02@6'
8/19/2025 9:45:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0429-08 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	1.71		0.212	mg/kg dry	10	B5H2161	08/21/2025	08/25/2025	
Barium	ND		59.8	"	"	"	"	"	U
Cadmium	ND		0.277	"	"	"	"	"	U
Copper	ND		33.6	"	"	"	"	"	U
Lead	15.0		10.2	"	"	"	"	"	
Nickel	ND		19.0	"	"	"	"	"	U
Selenium	ND		0.180	"	"	"	"	"	U
Silver	ND		0.584	"	"	"	"	"	U
Zinc	ND		270	"	"	"	"	"	U
Waypoint Analytical, LLC.									
SW- DRYWT									
Moisture	13.4	0	0.05	% dry	1	L836122	08/19/2025	08/27/2025	
Total Metals by 7196A									
Chromium, Hexavalent	ND	0.281	0.577	mg/Kg - dry	1	L835804	"	08/26/2025	

Origins Laboratory

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.



Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

BG03@3"

8/19/2025 9:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0429-09 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	ND		0.105	mg/L dry	1	B5H2041	08/20/2025	08/22/2025	U
Metals by Saturated Paste by EPA 6010									
Calcium	0.572		0.499	meq/L	10	[CALC]	08/20/2025	08/22/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	
Percent Solids									
Total Solids, Percent	94.7			mass percent	1	B5I0312	09/03/2025	09/05/2025	
pH in Soil by 9045D									
pH	6.00			pH Units	1	B5H2051	08/20/2025	08/22/2025	
SAR by 20B Saturated Paste									
SAR	0.0966		0.0100	SAR	1	B5H2047	08/20/2025	08/22/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.269		0.00500	mmhos/cm	1	B5H2051	08/20/2025	08/22/2025	

Origins Laboratory

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.



Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

BG03@3"
8/19/2025 9:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5H0429-09 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	1.86		0.221	mg/kg dry	10	B5H2161	08/21/2025	08/25/2025	
Barium	ND		62.2	"	"	"	"	"	U
Cadmium	ND		0.288	"	"	"	"	"	U
Copper	ND		34.9	"	"	"	"	"	U
Lead	ND		10.6	"	"	"	"	"	U
Nickel	ND		19.7	"	"	"	"	"	U
Selenium	ND		0.187	"	"	"	"	"	U
Silver	ND		0.607	"	"	"	"	"	U
Zinc	ND		281	"	"	"	"	"	U

Waypoint Analytical, LLC.

SW- DRYWT

Moisture	5.8	0	0.05	% dry	1	L836122	08/19/2025	08/27/2025	
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.259	0.53	mg/Kg - dry	1	L835804	"	08/26/2025	
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Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

BG03@3'

8/19/2025 9:55:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0429-10 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	2.70		0.111	mg/L dry	1	B5H2041	08/20/2025	08/22/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	1.24		0.499	meq/L	10	[CALC]	08/20/2025	08/22/2025	
Magnesium	1.36		0.823	"	"	"	"	"	
Sodium	13.3		0.435	"	"	"	"	"	
Percent Solids									
Total Solids, Percent	89.7			mass percent	1	B5I0312	09/03/2025	09/05/2025	
pH in Soil by 9045D									
pH	8.40			pH Units	1	B5H2051	08/20/2025	08/22/2025	
SAR by 20B Saturated Paste									
SAR	11.7		0.0100	SAR	1	B5H2047	08/20/2025	08/22/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	1.53		0.00500	mmhos/cm	1	B5H2051	08/20/2025	08/22/2025	

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

BG03@3'

8/19/2025 9:55:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5H0429-10 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	5.99		0.222	mg/kg dry	10	B5H2161	08/21/2025	08/25/2025	
Barium	4560		62.6	"	"	"	"	"	
Cadmium	ND		0.290	"	"	"	"	"	U
Copper	ND		35.1	"	"	"	"	"	U
Lead	10.9		10.7	"	"	"	"	"	
Nickel	ND		19.9	"	"	"	"	"	U
Selenium	0.404		0.188	"	"	"	"	"	
Silver	ND		0.611	"	"	"	"	"	U
Zinc	ND		283	"	"	"	"	"	U

Waypoint Analytical, LLC.

SW- DRYWT

Moisture	11.9	0	0.05	% dry	1	L836122	08/19/2025	08/27/2025	
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.276	0.567	mg/Kg - dry	1	L835804	"	08/26/2025	
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Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

BG03@6'

8/19/2025 10:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0429-11 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	3.53		0.116	mg/L dry	1	B5H2041	08/20/2025	08/22/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	21.9		0.499	meq/L	10	[CALC]	08/20/2025	08/22/2025	
Magnesium	18.0		0.823	"	"	"	"	"	
Sodium	33.6		0.435	"	"	"	"	"	
Percent Solids									
Total Solids, Percent	86.3			mass percent	1	B5I0312	09/03/2025	09/05/2025	
pH in Soil by 9045D									
pH	7.88			pH Units	1	B5H2051	08/20/2025	08/22/2025	
SAR by 20B Saturated Paste									
SAR	7.51		0.0100	SAR	1	B5H2047	08/20/2025	08/22/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	5.22		0.00500	mmhos/cm	1	B5H2051	08/20/2025	08/22/2025	

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

BG03@6'
8/19/2025 10:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5H0429-11 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	4.08		0.216	mg/kg dry	10	B5H2161	08/21/2025	08/25/2025	
Barium	248		60.9	"	"	"	"	"	
Cadmium	ND		0.282	"	"	"	"	"	U
Copper	ND		34.1	"	"	"	"	"	U
Lead	13.7		10.4	"	"	"	"	"	
Nickel	ND		19.3	"	"	"	"	"	U
Selenium	0.415		0.183	"	"	"	"	"	
Silver	ND		0.594	"	"	"	"	"	U
Zinc	ND		275	"	"	"	"	"	U

Waypoint Analytical, LLC.

SW- DRYWT

Moisture	12.9	0	0.05	% dry	1	L836122	08/19/2025	08/27/2025	
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.28	0.574	mg/Kg - dry	1	L835804	"	08/26/2025	
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Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

BG04@3"

8/19/2025 10:05:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0429-12 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	ND		0.107	mg/L dry	1	B5H2041	08/20/2025	08/22/2025	U
Metals by Saturated Paste by EPA 6010									
Calcium	0.554		0.499	meq/L	10	[CALC]	08/20/2025	08/22/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	
Percent Solids									
Total Solids, Percent	93.4			mass percent	1	B5I0312	09/03/2025	09/05/2025	
pH in Soil by 9045D									
pH	5.71			pH Units	1	B5H2051	08/20/2025	08/22/2025	
SAR by 20B Saturated Paste									
SAR	0.0719		0.0100	SAR	1	B5H2047	08/20/2025	08/22/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.190		0.00500	mmhos/cm	1	B5H2051	08/20/2025	08/22/2025	

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

BG04@3"
8/19/2025 10:05:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5H0429-12 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.13		0.212	mg/kg dry	10	B5H2161	08/21/2025	08/25/2025	
Barium	60.2		59.8	"	"	"	"	"	
Cadmium	ND		0.277	"	"	"	"	"	U
Copper	ND		33.6	"	"	"	"	"	U
Lead	11.5		10.2	"	"	"	"	"	
Nickel	ND		19.0	"	"	"	"	"	U
Selenium	ND		0.179	"	"	"	"	"	U
Silver	ND		0.583	"	"	"	"	"	U
Zinc	ND		270	"	"	"	"	"	U

Waypoint Analytical, LLC.

SW- DRYWT

Moisture	7.71	0	0.05	% dry	1	L836122	08/19/2025	08/27/2025	
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.264	0.541	mg/Kg - dry	1	L835804	"	08/26/2025	
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Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

BG04@3'

8/19/2025 10:10:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0429-13 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	1.24		0.107	mg/L dry	1	B5H2041	08/20/2025	08/22/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	1.47		0.499	meq/L	10	[CALC]	08/20/2025	08/22/2025	
Magnesium	1.12		0.823	"	"	"	"	"	
Sodium	7.47		0.435	"	"	"	"	"	
Percent Solids									
Total Solids, Percent	93.2			mass percent	1	B5I0312	09/03/2025	09/05/2025	
pH in Soil by 9045D									
pH	8.26			pH Units	1	B5H2051	08/20/2025	08/22/2025	
SAR by 20B Saturated Paste									
SAR	6.56		0.0100	SAR	1	B5H2047	08/20/2025	08/22/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	1.01		0.00500	mmhos/cm	1	B5H2051	08/20/2025	08/22/2025	

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

BG04@3'

8/19/2025 10:10:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5H0429-13 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	4.30		0.233	mg/kg dry	10	B5H2161	08/21/2025	08/25/2025	
Barium	620		65.7	"	"	"	"	"	
Cadmium	ND		0.305	"	"	"	"	"	U
Copper	ND		36.9	"	"	"	"	"	U
Lead	ND		11.2	"	"	"	"	"	U
Nickel	ND		20.8	"	"	"	"	"	U
Selenium	ND		0.197	"	"	"	"	"	U
Silver	ND		0.641	"	"	"	"	"	U
Zinc	ND		297	"	"	"	"	"	U

Waypoint Analytical, LLC.

SW- DRYWT

Moisture	5.26	0	0.05	% dry	1	L836122	08/19/2025	08/27/2025	
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.257	0.527	mg/Kg - dry	1	L835804	"	08/26/2025	
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Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

BG04@6'

8/19/2025 10:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0429-14 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	1.41		0.111	mg/L dry	1	B5H2041	08/20/2025	08/22/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	18.8		0.499	meq/L	10	[CALC]	08/20/2025	08/22/2025	
Magnesium	8.45		0.823	"	"	"	"	"	
Sodium	21.7		0.435	"	"	"	"	"	
Percent Solids									
Total Solids, Percent	89.9			mass percent	1	B5I0312	09/03/2025	09/05/2025	
pH in Soil by 9045D									
pH	7.86			pH Units	1	B5H2052	08/20/2025	08/22/2025	
SAR by 20B Saturated Paste									
SAR	5.89		0.0100	SAR	1	B5H2048	08/20/2025	08/22/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	4.24		0.00500	mmhos/cm	1	B5H2052	08/20/2025	08/22/2025	

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

BG04@6'

8/19/2025 10:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5H0429-14 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	4.42		0.234	mg/kg dry	10	B5H2161	08/21/2025	08/25/2025	
Barium	223		65.9	"	"	"	"	"	
Cadmium	ND		0.305	"	"	"	"	"	U
Copper	ND		37.0	"	"	"	"	"	U
Lead	ND		11.3	"	"	"	"	"	U
Nickel	ND		20.9	"	"	"	"	"	U
Selenium	ND		0.198	"	"	"	"	"	U
Silver	ND		0.643	"	"	"	"	"	U
Zinc	ND		297	"	"	"	"	"	U

Waypoint Analytical, LLC.

SW- DRYWT

Moisture	10.6	0	0.05	% dry	1	L836122	08/19/2025	08/27/2025	
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.272	0.559	mg/Kg - dry	1	L835804	"	08/26/2025	
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Origins Laboratory

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ORIGINS LABORATORY

Absaroka

112 High St.

Buffalo WY 82834

Max Dahlgren

Project Number: [none]

Project: KMG - Marcus St W 36-6J WH

WH-B01@6V

8/19/2025 10:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0429-15 (Soil)									
Origins Laboratory									
Percent Solids									
Total Solids, Percent	83.8			mass percent	1	B511611	09/16/2025	09/16/2025	
pH in Soil by 9045D									
pH	10.7			pH Units	1	B5H2103	08/21/2025	08/25/2025	
Table 915 metals by EPA 6020B									
Lead	29.4		11.1	mg/kg dry	10	B511543	09/15/2025	09/16/2025	

Origins Laboratory



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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

WH-Riser@4'V
8/19/2025 10:25:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0429-16 (Soil)									
Origins Laboratory									
Percent Solids									
Total Solids, Percent	85.2			mass percent	1	B511611	09/16/2025	09/16/2025	
pH in Soil by 9045D									
pH	7.82			pH Units	1	B5H2103	08/21/2025	08/25/2025	
Table 915 metals by EPA 6020B									
Lead	25.5		11.6	mg/kg dry	10	B511543	09/15/2025	09/16/2025	
Zinc	ND		305	"	"	"	"	"	U

Origins Laboratory

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Absaroka

112 High St.

Buffalo WY 82834

Max Dahlgren

Project Number: [none]

Project: KMG - Marcus St W 36-6J WH

*** DEFAULT GENERAL METHOD *** - 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 B510312 - % Solids

Duplicate (B510312-DUP1)

Source: E5H0427-09

Prepared: 09/03/2025 Analyzed: 09/05/2025

Total Solids, Percent	90.2		mass percent		90.0			0.288	20	
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Duplicate (B510312-DUP2)

Source: E5H0427-10

Prepared: 09/03/2025 Analyzed: 09/05/2025

Total Solids, Percent	95.7		mass percent		95.4			0.365	20	
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Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Marcus St W 36-6J WH

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 B5H2041 - DTPA Sorbitol Preparation

Blank (B5H2041-BLK1)

Prepared: 08/20/2025 Analyzed: 08/22/2025

(DTPA Sorbitol) Boron ND 0.100 mg/L wet U

Duplicate (B5H2041-DUP1)

Source: E5H0429-01

Prepared: 08/20/2025 Analyzed: 08/22/2025

(DTPA Sorbitol) Boron 0.923 0.119 mg/L dry 0.889 3.74 50

Batch B5H2047 - Saturated Paste Metals

Blank (B5H2047-BLK1)

Prepared: 08/20/2025 Analyzed: 08/22/2025

Calcium PPM ND 10.0 mg/L U

SAR ND 0.0100 SAR U

Magnesium PPM ND 10.0 mg/L U

Sodium PPM ND 10.0 " U

Duplicate (B5H2047-DUP1)

Source: E5H0429-01

Prepared: 08/20/2025 Analyzed: 08/22/2025

Calcium PPM 177 10.0 mg/L 230 26.1 50

SAR ND 0.0100 SAR 4.20 200 U

Magnesium PPM 26.7 10.0 mg/L 12.0 75.9 50 QR-DUP

Sodium PPM 224 10.0 " 241 6.98 50

Batch B5H2048 - Saturated Paste Metals

Blank (B5H2048-BLK1)

Prepared: 08/20/2025 Analyzed: 08/22/2025

Calcium PPM ND 10.0 mg/L U

SAR ND 0.0100 SAR U

Magnesium PPM ND 10.0 mg/L U

Sodium PPM ND 10.0 " U

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Marcus St W 36-6J WH

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 B5H2048 - Saturated Paste Metals

Duplicate (B5H2048-DUP1)

Source: E5H0429-14

Prepared: 08/20/2025 Analyzed: 08/22/2025

SAR	ND	0.0100	SAR		5.89			200		U
Calcium PPM	402	10.0	mg/L		377			6.55	50	
Magnesium PPM	110	10.0	"		103			7.10	50	
Sodium PPM	544	10.0	"		500			8.56	50	

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

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 B5H2130 - EPA 3580

Blank (B5H2130-BLK1)

Prepared: 08/21/2025 Analyzed: 08/22/2025

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

Surrogate: Fluorene-d10	200		ug/kg	200	98.9	60-130
Surrogate: Anthracene-d10	180		"	200	90.3	60-130
Surrogate: Pyrene-d10	230		"	200	113	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200	102	60-130

LCS (B5H2130-BS1)

Prepared: 08/21/2025 Analyzed: 08/22/2025

1-Methylnaphthalene	0.185	0.002	mg/kg wet	0.200	92.7	70-130
2-Methylnaphthalene	0.196	0.002	"	0.200	98.2	70-130
Acenaphthene	0.201	0.020	"	0.200	100	70-130

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

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 B5H2130 - EPA 3580

LCS (B5H2130-BS1)

Prepared: 08/21/2025 Analyzed: 08/22/2025

Acenaphthylene	0.177	0.020	mg/kg wet	0.200		88.3	70-130			
Anthracene	0.183	0.020	"	0.200		91.6	70-130			
Benzo (a) anthracene	0.188	0.005	"	0.200		94.2	70-130			
Benzo (a) pyrene	0.188	0.020	"	0.200		94.1	70-130			
Benzo (b) fluoranthene	0.201	0.020	"	0.200		101	70-130			
Benzo (g,h,i) perylene	0.209	0.020	"	0.200		105	70-130			
Benzo (k) fluoranthene	0.186	0.020	"	0.200		93.2	70-130			
Chrysene	0.202	0.020	"	0.200		101	70-130			
Dibenz (a,h) anthracene	0.210	0.020	"	0.200		105	70-130			
Fluoranthene	0.180	0.020	"	0.200		89.9	70-130			
Fluorene	0.192	0.020	"	0.200		96.2	70-130			
Indeno (1,2,3-cd) pyrene	0.214	0.020	"	0.200		107	70-130			
Naphthalene	0.184	0.002	"	0.200		91.9	70-130			
Phenanthrene	0.201	0.020	"	0.200		101	70-130			
Pyrene	0.210	0.020	"	0.200		105	70-130			

Surrogate: Fluorene-d10	200		ug/kg	200		98.4	60-130			
Surrogate: Anthracene-d10	190		"	200		96.4	60-130			
Surrogate: Pyrene-d10	220		"	200		108	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike (B5H2130-MS1)

Source: E5H0429-01

Prepared: 08/21/2025 Analyzed: 08/22/2025

1-Methylnaphthalene	0.225	0.002	mg/kg dry	0.238	ND	94.4	70-130			
2-Methylnaphthalene	0.242	0.002	"	0.238	ND	102	70-130			
Acenaphthene	0.246	0.024	"	0.238	ND	103	70-130			
Acenaphthylene	0.217	0.024	"	0.238	0.0004	90.9	70-130			
Anthracene	0.224	0.024	"	0.238	ND	93.8	70-130			
Benzo (a) anthracene	0.239	0.006	"	0.238	ND	100	70-130			

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Marcus St W 36-6J WH

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 B5H2130 - EPA 3580

Matrix Spike (B5H2130-MS1)

Source: E5H0429-01

Prepared: 08/21/2025 Analyzed: 08/22/2025

Benzo (a) pyrene	0.248	0.024	mg/kg dry	0.238	0.001	103	70-130			
Benzo (b) fluoranthene	0.259	0.024	"	0.238	ND	109	70-130			
Benzo (g,h,i) perylene	0.260	0.024	"	0.238	0.0009	109	70-130			
Benzo (k) fluoranthene	0.253	0.024	"	0.238	ND	106	70-130			
Chrysene	0.248	0.024	"	0.238	ND	104	70-130			
Dibenz (a,h) anthracene	0.253	0.024	"	0.238	0.001	106	70-130			
Fluoranthene	0.223	0.024	"	0.238	ND	93.6	70-130			
Fluorene	0.235	0.024	"	0.238	0.001	98.1	70-130			
Indeno (1,2,3-cd) pyrene	0.259	0.024	"	0.238	ND	109	70-130			
Naphthalene	0.230	0.002	"	0.238	ND	96.6	70-130			
Phenanthrene	0.246	0.024	"	0.238	ND	103	70-130			
Pyrene	0.259	0.024	"	0.238	ND	109	70-130			

Surrogate: Fluorene-d10	200		ug/kg	200		99.0	60-130			
Surrogate: Anthracene-d10	180		"	200		92.3	60-130			
Surrogate: Pyrene-d10	220		"	200		108	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

Matrix Spike Dup (B5H2130-MSD1)

Source: E5H0429-01

Prepared: 08/21/2025 Analyzed: 08/22/2025

1-Methylnaphthalene	0.235	0.002	mg/kg dry	0.238	ND	98.4	70-130	4.16	20	
2-Methylnaphthalene	0.252	0.002	"	0.238	ND	106	70-130	3.99	20	
Acenaphthene	0.251	0.024	"	0.238	ND	105	70-130	2.13	20	
Acenaphthylene	0.221	0.024	"	0.238	0.0004	92.7	70-130	1.95	20	
Anthracene	0.230	0.024	"	0.238	ND	96.3	70-130	2.66	20	
Benzo (a) anthracene	0.238	0.006	"	0.238	ND	100	70-130	0.0439	20	
Benzo (a) pyrene	0.244	0.024	"	0.238	0.001	102	70-130	1.64	20	
Benzo (b) fluoranthene	0.272	0.024	"	0.238	ND	114	70-130	4.86	20	
Benzo (g,h,i) perylene	0.262	0.024	"	0.238	0.0009	109	70-130	0.726	20	

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

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 B5H2130 - EPA 3580

Matrix Spike Dup (B5H2130-MSD1)

Source: E5H0429-01

Prepared: 08/21/2025 Analyzed: 08/22/2025

Benzo (k) fluoranthene	0.238	0.024	mg/kg dry	0.238	ND	99.9	70-130	5.84	20	
Chrysene	0.252	0.024	"	0.238	ND	106	70-130	1.48	20	
Dibenz (a,h) anthracene	0.261	0.024	"	0.238	0.001	109	70-130	3.11	20	
Fluoranthene	0.232	0.024	"	0.238	ND	97.1	70-130	3.63	20	
Fluorene	0.245	0.024	"	0.238	0.001	102	70-130	4.20	20	
Indeno (1,2,3-cd) pyrene	0.262	0.024	"	0.238	ND	110	70-130	1.25	20	
Naphthalene	0.231	0.002	"	0.238	ND	97.0	70-130	0.437	20	
Phenanthrene	0.249	0.024	"	0.238	ND	104	70-130	1.26	20	
Pyrene	0.268	0.024	"	0.238	ND	112	70-130	3.32	20	
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		95.3	60-130			
Surrogate: Pyrene-d10	230		"	200		113	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Marcus St W 36-6J WH

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 B5H2028 - EPA 3550B

Prepared: 08/20/2025 Analyzed: 08/21/2025

Blank (B5H2028-BLK1)

Diesel (C10-C28)	ND	25.0	mg/kg wet							U
Residual Range Organics (C28-C36)	ND	100	"							U

Surrogate: o-Terphenyl

18 " 24.9 71.2 50-150

LCS (B5H2028-BS1)

Prepared: 08/20/2025 Analyzed: 08/21/2025

Diesel (C10-C28)	1110	50.0	mg/kg wet	1000		111	70-130			
Residual Range Organics (C28-C36)	1110	200	"	1000		111	70-130			

Surrogate: o-Terphenyl

44 " 49.8 88.7 50-150

Matrix Spike (B5H2028-MS1)

Source: E5H0428-01

Prepared: 08/20/2025 Analyzed: 08/21/2025

Diesel (C10-C28)	1170	50.0	mg/kg wet	1000	ND	117	70-130			
Residual Range Organics (C28-C36)	1200	200	"	1000	ND	120	70-130			

Surrogate: o-Terphenyl

49 " 49.8 98.4 50-150

Matrix Spike Dup (B5H2028-MSD1)

Source: E5H0428-01

Prepared: 08/20/2025 Analyzed: 08/21/2025

Diesel (C10-C28)	1220	50.0	mg/kg wet	1000	ND	122	70-130	4.15	35	
Residual Range Organics (C28-C36)	1300	200	"	1000	ND	130	70-130	7.84	35	

Surrogate: o-Terphenyl

48 " 49.8 95.9 50-150

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Marcus St W 36-6J WH

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 B5H2161 - EPA 3050B

Blank (B5H2161-BLK1)

Prepared: 08/21/2025 Analyzed: 08/25/2025

Arsenic	ND	0.218	mg/kg wet							U
Barium	ND	61.5	"							U
Cadmium	ND	0.285	"							U
Copper	ND	34.5	"							U
Lead	ND	10.5	"							U
Nickel	ND	19.5	"							U
Selenium	ND	0.184	"							U
Silver	ND	0.600	"							U
Zinc	ND	278	"							U

LCS (B5H2161-BS1)

Prepared: 08/21/2025 Analyzed: 08/25/2025

Arsenic	5.22	0.218	mg/kg wet	5.00		104	80-120			
Barium	537	61.5	"	500		107	80-120			
Cadmium	5.45	0.285	"	5.00		109	80-120			
Copper	51.0	34.5	"	50.0		102	80-120			
Lead	5.16	10.5	"	5.00		103	80-120			U
Nickel	5.26	19.5	"	5.00		105	80-120			U
Selenium	5.39	0.184	"	5.00		108	80-120			
Silver	5.64	0.600	"	5.00		113	80-120			
Zinc	50.1	278	"	50.0		100	80-120			U

Matrix Spike (B5H2161-MS1)

Source: E5H0363-10

Prepared: 08/21/2025 Analyzed: 08/25/2025

Arsenic	10.5	0.193	mg/kg dry	4.43	5.22	120	75-125			
Barium	614	54.5	"	443	119	112	75-125			
Cadmium	4.93	0.253	"	4.43	0.239	106	75-125			
Copper	54.3	30.6	"	44.3	9.33	101	75-125			
Lead	16.5	9.31	"	4.43	12.1	101	75-125			

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

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 B5H2161 - EPA 3050B

Matrix Spike (B5H2161-MS1)

Source: E5H0363-10

Prepared: 08/21/2025 Analyzed: 08/25/2025

Nickel	16.2	17.3	mg/kg dry	4.43	11.3	110	75-125			U
Selenium	4.77	0.164	"	4.43	0.190	103	75-125			
Silver	4.88	0.532	"	4.43	0.0346	109	75-125			
Zinc	88.7	246	"	44.3	41.0	108	75-125			U

Matrix Spike Dup (B5H2161-MSD1)

Source: E5H0363-10

Prepared: 08/21/2025 Analyzed: 08/25/2025

Arsenic	11.1	0.196	mg/kg dry	4.49	5.22	130	75-125	4.96	20	QM-07
Barium	580	55.3	"	449	119	103	75-125	5.58	20	
Cadmium	4.76	0.256	"	4.49	0.239	101	75-125	3.44	20	
Copper	54.1	31.0	"	44.9	9.33	99.6	75-125	0.366	20	
Lead	16.0	9.43	"	4.49	12.1	87.1	75-125	3.37	20	
Nickel	17.6	17.5	"	4.49	11.3	139	75-125	8.03	20	QM-07
Selenium	4.73	0.166	"	4.49	0.190	101	75-125	0.694	20	
Silver	4.72	0.539	"	4.49	0.0346	104	75-125	3.31	20	
Zinc	92.9	249	"	44.9	41.0	115	75-125	4.61	20	U

Batch B5I1543 - EPA 3050B

Blank (B5I1543-BLK1)

Prepared: 09/15/2025 Analyzed: 09/16/2025

Arsenic	ND	0.218	mg/kg wet							U
Barium	ND	61.5	"							U
Cadmium	ND	0.285	"							U
Copper	ND	34.5	"							U
Lead	ND	10.5	"							U
Nickel	ND	19.5	"							U
Selenium	ND	0.184	"							U
Silver	ND	0.600	"							U

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

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 B511543 - EPA 3050B

Blank (B511543-BLK1)

Prepared: 09/15/2025 Analyzed: 09/16/2025

Zinc	ND	278	mg/kg wet							U
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LCS (B511543-BS1)

Prepared: 09/15/2025 Analyzed: 09/16/2025

Arsenic	4.87	0.218	mg/kg wet	5.00		97.3	80-120			
Barium	488	61.5	"	500		97.6	80-120			
Cadmium	4.91	0.285	"	5.00		98.3	80-120			
Copper	46.0	34.5	"	50.0		91.9	80-120			
Lead	4.79	10.5	"	5.00		95.8	80-120			U
Nickel	4.59	19.5	"	5.00		91.8	80-120			U
Selenium	4.70	0.184	"	5.00		94.1	80-120			
Silver	4.77	0.600	"	5.00		95.5	80-120			
Zinc	49.1	278	"	50.0		98.2	80-120			U

Matrix Spike (B511543-MS1)

Source: E510265-01

Prepared: 09/15/2025 Analyzed: 09/16/2025

Arsenic	8.00	0.231	mg/kg dry	5.30	2.00	113	75-125			
Barium	599	65.2	"	530	45.3	104	75-125			
Cadmium	5.28	0.302	"	5.30	0.0758	98.3	75-125			
Copper	55.1	36.6	"	53.0	5.39	93.7	75-125			
Lead	9.94	11.1	"	5.30	4.83	96.4	75-125			U
Nickel	9.02	20.7	"	5.30	4.08	93.2	75-125			U
Selenium	5.22	0.196	"	5.30	0.155	95.6	75-125			
Silver	5.14	0.636	"	5.30	0.0139	96.7	75-125			
Zinc	71.8	294	"	53.0	21.3	95.3	75-125			U

Matrix Spike Dup (B511543-MSD1)

Source: E510265-01

Prepared: 09/15/2025 Analyzed: 09/16/2025

Arsenic	6.96	0.220	mg/kg dry	5.05	2.00	98.2	75-125	13.8	20	
Barium	575	62.1	"	505	45.3	105	75-125	4.02	20	

Origins Laboratory

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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

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 B511543 - EPA 3050B

Matrix Spike Dup (B511543-MSD1)

Source: E5I0265-01

Prepared: 09/15/2025 Analyzed: 09/16/2025

Cadmium	5.24	0.288	mg/kg dry	5.05	0.0758	102	75-125	0.818	20	
Copper	52.1	34.8	"	50.5	5.39	92.5	75-125	5.51	20	
Lead	9.98	10.6	"	5.05	4.83	102	75-125	0.389	20	U
Nickel	9.03	19.7	"	5.05	4.08	98.0	75-125	0.0915	20	U
Selenium	5.02	0.186	"	5.05	0.155	96.4	75-125	3.94	20	
Silver	4.97	0.606	"	5.05	0.0139	98.2	75-125	3.33	20	
Zinc	69.7	280	"	50.5	21.3	95.9	75-125	2.94	20	U

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Marcus St W 36-6J WH

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 B5H2051 - Saturated Paste pH/EC

Blank (B5H2051-BLK1)

Prepared: 08/20/2025 Analyzed: 08/22/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm U

Duplicate (B5H2051-DUP1)

Source: E5H0429-01

Prepared: 08/20/2025 Analyzed: 08/22/2025

Specific Conductance (EC) 2.03 0.00500 mmhos/cm 2.13 4.92 25

pH 8.82 pH Units 8.94 1.35 25

Batch B5H2052 - Saturated Paste pH/EC

Blank (B5H2052-BLK1)

Prepared: 08/20/2025 Analyzed: 08/22/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm U

Duplicate (B5H2052-DUP1)

Source: E5H0429-14

Prepared: 08/20/2025 Analyzed: 08/22/2025

Specific Conductance (EC) 4.61 0.00500 mmhos/cm 4.24 8.54 25

pH 7.86 pH Units 7.86 0.00 25

Batch B5H2103 - Saturated Paste pH/EC

Duplicate (B5H2103-DUP1)

Source: E5H0452-01

Prepared: 08/21/2025 Analyzed: 08/25/2025

pH 8.41 pH Units 8.32 1.08 25

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Marcus St W 36-6J WH

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 B5H2054 - EPA 5030 (soil)

Blank (B5H2054-BLK1)

Prepared: 08/20/2025 Analyzed: 08/23/2025

1,2,4-Trimethylbenzene	ND	0.002	mg/kg wet							U
1,3,5-Trimethylbenzene	ND	0.002	"							U
Benzene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U

Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.5	70-130			

LCS (B5H2054-BS1)

Prepared: 08/20/2025 Analyzed: 08/23/2025

1,2,4-Trimethylbenzene	0.089	0.002	mg/kg wet	0.100		88.9	70-130			
1,3,5-Trimethylbenzene	0.087	0.002	"	0.100		86.8	70-130			
Benzene	0.083	0.002	"	0.100		83.2	70-130			
Ethylbenzene	0.087	0.002	"	0.100		86.7	70-130			
Toluene	0.078	0.002	"	0.100		78.1	70-130			
o-Xylene	0.085	0.002	"	0.100		85.1	70-130			
m,p-Xylene	0.169	0.004	"	0.200		84.4	70-130			

Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Matrix Spike (B5H2054-MS1)

Source: E5H0425-05

Prepared: 08/20/2025 Analyzed: 08/23/2025

1,2,4-Trimethylbenzene	0.114	0.002	mg/kg dry	0.106	ND	107	70-130			
1,3,5-Trimethylbenzene	0.114	0.002	"	0.106	ND	108	70-130			
Benzene	0.097	0.002	"	0.106	ND	91.1	70-130			

Origins Laboratory

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Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Marcus St W 36-6J WH

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 B5H2054 - EPA 5030 (soil)

Matrix Spike (B5H2054-MS1)

Source: E5H0425-05

Prepared: 08/20/2025 Analyzed: 08/23/2025

Ethylbenzene	0.118	0.002	mg/kg dry	0.106	ND	111	70-130			
Toluene	0.096	0.002	"	0.106	ND	90.5	70-130			
o-Xylene	0.112	0.002	"	0.106	ND	105	70-130			
m,p-Xylene	0.227	0.004	"	0.212	ND	107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.133		92.0	70-130			
Surrogate: Toluene-d8	0.14		"	0.133		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.133		106	70-130			

Matrix Spike Dup (B5H2054-MSD1)

Source: E5H0425-05

Prepared: 08/20/2025 Analyzed: 08/23/2025

1,2,4-Trimethylbenzene	0.093	0.002	mg/kg dry	0.106	ND	87.6	70-130	20.3	20	QR-02
1,3,5-Trimethylbenzene	0.091	0.002	"	0.106	ND	85.9	70-130	22.4	20	QR-02
Benzene	0.087	0.002	"	0.106	ND	82.0	70-130	10.5	20	
Ethylbenzene	0.091	0.002	"	0.106	ND	86.1	70-130	25.3	20	QR-02
Toluene	0.084	0.002	"	0.106	ND	78.8	70-130	13.8	20	
o-Xylene	0.090	0.002	"	0.106	ND	84.7	70-130	21.6	20	QR-02
m,p-Xylene	0.179	0.004	"	0.212	ND	84.2	70-130	24.0	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.133		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.133		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.133		103	70-130			

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Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Marcus St W 36-6J WH

SW- DRYWT - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L836122 -

DUP (L 89735-DUP)

Source: E5H0429-06

Prepared: Analyzed: 08/27/2025

Moisture	5.6	0.05	% dry		6.16	-		9.5	20	
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Absaroka

112 High St.

Buffalo WY 82834

Max Dahlgren

Project Number: [none]

Project: KMG - Marcus St W 36-6J WH

SW-DRYWT - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L836121 -

DUP (L 89725-DUP)

Source: 89725

Prepared: Analyzed: 08/27/2025

Moisture	11.6	0.05	% dry		11.2	-		3.5	20	
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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L835804 -

DUP (L 89735-DUP)

Source: E5H0429-06

Prepared: Analyzed: 08/26/2025

Chromium, Hexavalent	ND	0.532	mg/Kg - dry		<0.500	-	0	20		
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MS (L 89735-MS)

Source: E5H0429-06

Prepared: Analyzed: 08/26/2025

Chromium, Hexavalent	27.9	2.66	mg/Kg - dry	39.1	< 0.244	71	75-125	*		
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LCS (LCS)

Prepared: Analyzed: 08/26/2025

Chromium, Hexavalent	6.74	0.5	mg/Kg	8	84	75-125				
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LRB (LRB)

Prepared: Analyzed: 08/26/2025

Chromium, Hexavalent	ND	0.5	mg/Kg		-					
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Absaroka
 112 High St.
 Buffalo WY 82834

Max Dahlgren
 Project Number: [none]
 Project: KMG - Marcus St W 36-6J WH

**Total Metals by 7196A - Quality Control
 Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L835584 -										
DUP (L 89716-DUP)										
			Source: 89716			Prepared: Analyzed: 08/25/2025				
Chromium, Hexavalent	ND	0.5	mg/Kg dry		<0.500	-		0	20	
MS (L 89716-MS)										
			Source: 89716			Prepared: Analyzed: 08/25/2025				
Chromium, Hexavalent	35.1	2.5	mg/Kg dry	39.4	< 0.244	89	75-125			
LCS (LCS)										
						Prepared: Analyzed: 08/25/2025				
Chromium, Hexavalent	6.69	0.5	mg/Kg	8		84	75-125			
LRB (LRB)										
						Prepared: Analyzed: 08/25/2025				
Chromium, Hexavalent	ND	0.5	mg/Kg							

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ORIGINS LABORATORY

Absaroka

112 High St.

Buffalo WY 82834

Max Dahlgren

Project Number: [none]

Project: KMG - Marcus St W 36-6J WH

Notes and Definitions

U Sample is Non-Detect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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