



Absaroka
Max Dahlgren
112 High St.

July 28, 2025

Buffalo WY 82834

Project Name - KMG - Nishimoto 23-36/10-36 Facility

Project Number - [none]

Attached are your analytical results for KMG - Nishimoto 23-36/10-36 Facility received by Origins Laboratory July 01, 2025. This project is associated with Origins project number E5G0045-01.

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 - Nishimoto 23-36/10-36 Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG01@3"	E5G0045-01	Soil	July 1, 2025 12:00	07/01/2025 14:55
BG01@3'	E5G0045-02	Soil	July 1, 2025 12:03	07/01/2025 14:55
BG01@6'	E5G0045-03	Soil	July 1, 2025 12:05	07/01/2025 14:55
BG02@3"	E5G0045-04	Soil	July 1, 2025 12:10	07/01/2025 14:55
BG02@3'	E5G0045-05	Soil	July 1, 2025 12:13	07/01/2025 14:55
BG02@6'	E5G0045-06	Soil	July 1, 2025 12:15	07/01/2025 14:55
BG03@3"	E5G0045-07	Soil	July 1, 2025 12:20	07/01/2025 14:55
BG03@3'	E5G0045-08	Soil	July 1, 2025 12:23	07/01/2025 14:55
BG03@6'	E5G0045-09	Soil	July 1, 2025 12:25	07/01/2025 14:55
BG04@3"	E5G0045-10	Soil	July 1, 2025 12:30	07/01/2025 14:55
BG04@3'	E5G0045-11	Soil	July 1, 2025 12:33	07/01/2025 14:55
BG04@6'	E5G0045-12	Soil	July 1, 2025 12:35	07/01/2025 14:55

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.

ORIGINS LABORATORY

Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Nishimoto 23-36/10-36 Facility

ORIGINS
LABORATORY

2550015


Page 1 of 4

Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis			Comments
					F, Li, 915	Boron	pH, SAR, EC	
660108 ¹	7/1/15	12:00	2	WR	N	N	N	
660108 ²		12:05						
660108 ³		12:05						
660108 ⁴		12:10						
660108 ⁵		12:15						
660108 ⁶		12:15						
660108 ⁷		12:20						
660108 ⁸		12:25						
660108 ⁹		12:30						
660108 ¹⁰		12:35						

Client: OXI / Absaroka
Address: _____
Project Manager: Max Dahlgren
Project Name: NISHIMOTO 23-36/10-36
Project Number: 2550015
Temp Received: 4.1°C
Received On Ice? Yes No
Turnaround Time: 48 Hr 72 SAME DAY 24

Telephone Number: 970-461-6909
Email Address: a2d@reports@sharmanahalston.com
Invoicing/Billing Info: On File - OXI
WVI=Waste Water
SWS=Surface Water
GHW=Groundwater

Collected by: SD
Date: 7/1/15

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.

ORIGINS LABORATORY

Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Nishimoto 23-36/10-36 Facility

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 5560045

Client: Absaroka

Client Project ID: Nishimoto 23-36/10-36 facility

Checklist Completed by: OFF INO

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 7/11/25

Airbill #: N/A

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

Cooler Number/Temperature: 1, 4.1 °C (Describe)

Thermometer ID: 1007

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 dry 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 sub-contracted analyses in order to insure sample integrity)(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaOH, NaOH, and 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 be taken in the additional comments (above) and the case narrative.

Reviewed by (Project Manager)

07/10/25
Date/Time Reviewed

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.

Kayla Kenyon For Jordan A. Bynon, Project Manager



Absaroka
112 High St.
Buffalo WY 82834

Max Dahlgren
Project Number: [none]
Project: KMG - Nishimoto 23-36/10-36 Facility

BG01@3"

7/1/2025 12:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

**E5G0045-01 (Soil)
Enthalpy Analytical**

TOTAL METALS BY SW7199

Chromium, Hexavalent	0.18	0.08	0.20	mg/kg	1	BIG0793	07/16/2025	07/22/2025	J
----------------------	------	------	------	-------	---	---------	------------	------------	---

Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.996		0.0998	mg/L	1	B5G0207	07/02/2025	07/07/2025	
-------	-------	--	--------	------	---	---------	------------	------------	--

Metals by Saturated Paste by EPA 6010

Calcium	3.47		0.499	meq/L	10	[CALC]	07/02/2025	07/07/2025	
Magnesium	1.18		0.823	"	"	"	"	"	
Sodium	2.44		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.89			pH Units	1	B5G0218	07/02/2025	07/07/2025	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	1.60		0.0100	SAR	1	B5G0211	07/02/2025	07/07/2025	
-----	------	--	--------	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.700		0.00500	mmhos/cm	1	B5G0218	07/02/2025	07/07/2025	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

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 - Nishimoto 23-36/10-36 Facility

BG01@3"

7/1/2025 12:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

**E5G0045-01 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Arsenic	5.66		0.261	mg/kg	10	B5G0245	07/02/2025	07/07/2025	
Barium	168		73.7	"	"	"	"	"	
Cadmium	0.479		0.342	"	"	"	"	"	
Copper	ND		41.4	"	"	"	"	"	U
Lead	32.2		12.6	"	"	"	"	"	
Nickel	ND		23.4	"	"	"	"	"	U
Selenium	0.512		0.234	"	"	"	"	"	
Silver	ND		0.719	"	"	"	"	"	U
Zinc	ND		333	"	"	"	"	"	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 - Nishimoto 23-36/10-36 Facility

BG01@3'

7/1/2025 12:03:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

**E5G0045-02 (Soil)
 Enthalpy Analytical**

TOTAL METALS BY SW7199

Chromium, Hexavalent	0.47	0.08	0.20	mg/kg	1	BIG0793	07/16/2025	07/22/2025	
----------------------	------	------	------	-------	---	---------	------------	------------	--

Origins Laboratory

Boron (DTPA Sorbitol)

Boron	ND		0.986	mg/L	10	B5G0207	07/02/2025	07/08/2025	U
-------	----	--	-------	------	----	---------	------------	------------	---

Metals by Saturated Paste by EPA 6010

Calcium	0.954		0.499	meq/L	"	[CALC]	07/02/2025	07/07/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.99		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.40			pH Units	1	B5G0218	07/02/2025	07/07/2025	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	4.63		0.0100	SAR	1	B5G0211	07/02/2025	07/07/2025	
-----	------	--	--------	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.556		0.00500	mmhos/cm	1	B5G0218	07/02/2025	07/07/2025	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

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 - Nishimoto 23-36/10-36 Facility

BG01@3'

7/1/2025 12:03:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

E5G0045-02 (Soil)
 Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	1.67		0.248	mg/kg	10	B5G0245	07/02/2025	07/07/2025	
Barium	114		70.3	"	"	"	"	"	
Cadmium	ND		0.326	"	"	"	"	"	U
Copper	ND		39.4	"	"	"	"	"	U
Lead	ND		12.0	"	"	"	"	"	U
Nickel	ND		22.3	"	"	"	"	"	U
Selenium	0.312		0.223	"	"	"	"	"	
Silver	ND		0.685	"	"	"	"	"	U
Zinc	ND		317	"	"	"	"	"	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 - Nishimoto 23-36/10-36 Facility

BG01@6'

7/1/2025 12:05:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

**E5G0045-03 (Soil)
 Enthalpy Analytical**

TOTAL METALS BY SW7199

Chromium, Hexavalent	0.29	0.08	0.20	mg/kg	1	BIG0793	07/16/2025	07/22/2025	
----------------------	------	------	------	-------	---	---------	------------	------------	--

Origins Laboratory

Boron (DTPA Sorbitol)

Boron	ND		1.01	mg/L	10	B5G0207	07/02/2025	07/08/2025	U
-------	----	--	------	------	----	---------	------------	------------	---

Metals by Saturated Paste by EPA 6010

Calcium	1.12		0.499	meq/L	"	[CALC]	07/02/2025	07/07/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.70		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.87			pH Units	1	B5G0218	07/02/2025	07/07/2025	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	3.08		0.0100	SAR	1	B5G0211	07/02/2025	07/07/2025	
-----	------	--	--------	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.488		0.00500	mmhos/cm	1	B5G0218	07/02/2025	07/07/2025	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

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 - Nishimoto 23-36/10-36 Facility

BG01@6'

7/1/2025 12:05:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

E5G0045-03 (Soil)
 Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.80		0.257	mg/kg	10	B5G0245	07/02/2025	07/07/2025	
Barium	158		72.8	"	"	"	"	"	
Cadmium	ND		0.337	"	"	"	"	"	U
Copper	ND		40.8	"	"	"	"	"	U
Lead	13.4		12.4	"	"	"	"	"	
Nickel	ND		23.1	"	"	"	"	"	U
Selenium	0.435		0.231	"	"	"	"	"	
Silver	ND		0.710	"	"	"	"	"	U
Zinc	ND		328	"	"	"	"	"	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 - Nishimoto 23-36/10-36 Facility

BG02@3"

7/1/2025 12:10:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

**E5G0045-04 (Soil)
Enthalpy Analytical**

TOTAL METALS BY SW7199

Chromium, Hexavalent	0.15	0.08	0.21	mg/kg	1	BIG0793	07/16/2025	07/22/2025	J
----------------------	------	------	------	-------	---	---------	------------	------------	---

Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.867		0.0998	mg/L	1	B5G0207	07/02/2025	07/07/2025	
-------	-------	--	--------	------	---	---------	------------	------------	--

Metals by Saturated Paste by EPA 6010

Calcium	5.60		0.499	meq/L	10	[CALC]	07/02/2025	07/07/2025	
Magnesium	1.98		0.823	"	"	"	"	"	
Sodium	2.45		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.74			pH Units	1	B5G0218	07/02/2025	07/07/2025	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	1.26		0.0100	SAR	1	B5G0211	07/02/2025	07/07/2025	
-----	------	--	--------	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.09		0.00500	mmhos/cm	1	B5G0218	07/02/2025	07/07/2025	
---------------------------	------	--	---------	----------	---	---------	------------	------------	--

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 - Nishimoto 23-36/10-36 Facility

BG02@3"
7/1/2025 12:10:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

E5G0045-04 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	5.11		0.249	mg/kg	10	B5G0245	07/02/2025	07/07/2025	
Barium	161		70.5	"	"	"	"	"	
Cadmium	0.464		0.327	"	"	"	"	"	
Copper	ND		39.6	"	"	"	"	"	U
Lead	29.4		12.0	"	"	"	"	"	
Nickel	ND		22.4	"	"	"	"	"	U
Selenium	0.447		0.224	"	"	"	"	"	
Silver	ND		0.688	"	"	"	"	"	U
Zinc	ND		318	"	"	"	"	"	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 - Nishimoto 23-36/10-36 Facility

BG02@3'

7/1/2025 12:13:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

**E5G0045-05 (Soil)
 Enthalpy Analytical**

TOTAL METALS BY SW7199

Chromium, Hexavalent	0.48	0.08	0.19	mg/kg	1	BIG0793	07/16/2025	07/22/2025	
----------------------	------	------	------	-------	---	---------	------------	------------	--

Origins Laboratory

Boron (DTPA Sorbitol)

Boron	ND		1.02	mg/L	10	B5G0207	07/02/2025	07/08/2025	U
-------	----	--	------	------	----	---------	------------	------------	---

Metals by Saturated Paste by EPA 6010

Calcium	5.58		0.499	meq/L	"	[CALC]	07/02/2025	07/07/2025	
Magnesium	1.96		0.823	"	"	"	"	"	
Sodium	11.7		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.06			pH Units	1	B5G0218	07/02/2025	07/07/2025	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	6.02		0.0100	SAR	1	B5G0211	07/02/2025	07/07/2025	
-----	------	--	--------	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.84		0.00500	mmhos/cm	1	B5G0218	07/02/2025	07/07/2025	
---------------------------	------	--	---------	----------	---	---------	------------	------------	--

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 - Nishimoto 23-36/10-36 Facility

BG02@3'

7/1/2025 12:13:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

E5G0045-05 (Soil)
 Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.99		0.255	mg/kg	10	B5G0245	07/02/2025	07/07/2025	
Barium	169		72.2	"	"	"	"	"	
Cadmium	ND		0.335	"	"	"	"	"	U
Copper	ND		40.5	"	"	"	"	"	U
Lead	12.3		12.3	"	"	"	"	"	U
Nickel	ND		22.9	"	"	"	"	"	U
Selenium	0.325		0.229	"	"	"	"	"	
Silver	ND		0.704	"	"	"	"	"	U
Zinc	ND		326	"	"	"	"	"	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 - Nishimoto 23-36/10-36 Facility

BG02@6'

7/1/2025 12:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

**E5G0045-06 (Soil)
 Enthalpy Analytical**

TOTAL METALS BY SW7199

Chromium, Hexavalent	0.18	0.08	0.20	mg/kg	1	BIG0793	07/16/2025	07/22/2025	J
----------------------	------	------	------	-------	---	---------	------------	------------	---

Origins Laboratory

Boron (DTPA Sorbitol)

Boron	ND		0.0990	mg/L	1	B5G0207	07/02/2025	07/07/2025	U
-------	----	--	--------	------	---	---------	------------	------------	---

Metals by Saturated Paste by EPA 6010

Calcium	1.31		0.499	meq/L	10	[CALC]	07/02/2025	07/07/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.87		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.79			pH Units	1	B5G0218	07/02/2025	07/07/2025	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	3.03		0.0100	SAR	1	B5G0211	07/02/2025	07/07/2025	
-----	------	--	--------	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.563		0.00500	mmhos/cm	1	B5G0218	07/02/2025	07/07/2025	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

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 - Nishimoto 23-36/10-36 Facility

BG02@6'

7/1/2025 12:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

E5G0045-06 (Soil)
 Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	1.40		0.243	mg/kg	10	B5G0245	07/02/2025	07/07/2025	
Barium	96.3		68.7	"	"	"	"	"	
Cadmium	ND		0.318	"	"	"	"	"	U
Copper	ND		38.5	"	"	"	"	"	U
Lead	ND		11.7	"	"	"	"	"	U
Nickel	ND		21.8	"	"	"	"	"	U
Selenium	ND		0.218	"	"	"	"	"	U
Silver	ND		0.670	"	"	"	"	"	U
Zinc	ND		310	"	"	"	"	"	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 - Nishimoto 23-36/10-36 Facility

BG03@3"

7/1/2025 12:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

**E5G0045-07 (Soil)
Enthalpy Analytical**

TOTAL METALS BY SW7199

Chromium, Hexavalent	0.21	0.08	0.20	mg/kg	1	BIG0793	07/16/2025	07/22/2025	
----------------------	------	------	------	-------	---	---------	------------	------------	--

Origins Laboratory

Boron (DTPA Sorbitol)

Boron	1.06		0.0989	mg/L	1	B5G0207	07/02/2025	07/07/2025	
-------	------	--	--------	------	---	---------	------------	------------	--

Metals by Saturated Paste by EPA 6010

Calcium	2.83		0.499	meq/L	10	[CALC]	07/02/2025	07/07/2025	
Magnesium	0.971		0.823	"	"	"	"	"	
Sodium	4.75		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.11			pH Units	1	B5G0218	07/02/2025	07/07/2025	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	3.44		0.0100	SAR	1	B5G0211	07/02/2025	07/07/2025	
-----	------	--	--------	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.874		0.00500	mmhos/cm	1	B5G0218	07/02/2025	07/07/2025	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

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 - Nishimoto 23-36/10-36 Facility

BG03@3"

7/1/2025 12:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

**E5G0045-07 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Arsenic	4.65		0.274	mg/kg	10	B5G0245	07/02/2025	07/07/2025	
Barium	158		77.6	"	"	"	"	"	
Cadmium	0.454		0.360	"	"	"	"	"	
Copper	ND		43.5	"	"	"	"	"	U
Lead	29.2		13.3	"	"	"	"	"	
Nickel	ND		24.6	"	"	"	"	"	U
Selenium	0.408		0.246	"	"	"	"	"	
Silver	ND		0.757	"	"	"	"	"	U
Zinc	ND		350	"	"	"	"	"	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 - Nishimoto 23-36/10-36 Facility

BG03@3'

7/1/2025 12:23:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

**E5G0045-08 (Soil)
Enthalpy Analytical**

TOTAL METALS BY SW7199

Chromium, Hexavalent	ND	0.08	0.20	mg/kg	1	BIG0793	07/16/2025	07/22/2025	
----------------------	----	------	------	-------	---	---------	------------	------------	--

Origins Laboratory

Boron (DTPA Sorbitol)

Boron	ND		0.0991	mg/L	1	B5G0207	07/02/2025	07/07/2025	U
-------	----	--	--------	------	---	---------	------------	------------	---

Metals by Saturated Paste by EPA 6010

Calcium	0.949		0.499	meq/L	10	[CALC]	07/02/2025	07/07/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.57		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.22			pH Units	1	B5G0218	07/02/2025	07/07/2025	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	1.97		0.0100	SAR	1	B5G0211	07/02/2025	07/07/2025	
-----	------	--	--------	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.354		0.00500	mmhos/cm	1	B5G0218	07/02/2025	07/07/2025	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

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 - Nishimoto 23-36/10-36 Facility

BG03@3'

7/1/2025 12:23:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5G0045-08 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	1.34		0.273	mg/kg	10	B5G0245	07/02/2025	07/07/2025	
Barium	ND		77.3	"	"	"	"	"	U
Cadmium	ND		0.358	"	"	"	"	"	U
Copper	ND		43.4	"	"	"	"	"	U
Lead	ND		13.2	"	"	"	"	"	U
Nickel	ND		24.5	"	"	"	"	"	U
Selenium	ND		0.245	"	"	"	"	"	U
Silver	ND		0.754	"	"	"	"	"	U
Zinc	ND		349	"	"	"	"	"	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 - Nishimoto 23-36/10-36 Facility

BG03@6'

7/1/2025 12:25:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

**E5G0045-09 (Soil)
Enthalpy Analytical**

TOTAL METALS BY SW7199

Chromium, Hexavalent	ND	0.08	0.20	mg/kg	1	BIG0793	07/16/2025	07/22/2025	
----------------------	----	------	------	-------	---	---------	------------	------------	--

Origins Laboratory

Boron (DTPA Sorbitol)

Boron	ND		0.102	mg/L	1	B5G0207	07/02/2025	07/07/2025	U
-------	----	--	-------	------	---	---------	------------	------------	---

Metals by Saturated Paste by EPA 6010

Calcium	0.677		0.499	meq/L	10	[CALC]	07/02/2025	07/07/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.795		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.23			pH Units	1	B5G0218	07/02/2025	07/07/2025	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	1.17		0.0100	SAR	1	B5G0211	07/02/2025	07/07/2025	
-----	------	--	--------	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.210		0.00500	mmhos/cm	1	B5G0218	07/02/2025	07/07/2025	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

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 - Nishimoto 23-36/10-36 Facility

BG03@6'

7/1/2025 12:25:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

E5G0045-09 (Soil)
 Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	0.574		0.278	mg/kg	10	B5G0245	07/02/2025	07/07/2025	
Barium	ND		78.6	"	"	"	"	"	U
Cadmium	ND		0.364	"	"	"	"	"	U
Copper	ND		44.1	"	"	"	"	"	U
Lead	ND		13.4	"	"	"	"	"	U
Nickel	ND		24.9	"	"	"	"	"	U
Selenium	ND		0.249	"	"	"	"	"	U
Silver	ND		0.767	"	"	"	"	"	U
Zinc	ND		355	"	"	"	"	"	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 - Nishimoto 23-36/10-36 Facility

BG04@3"

7/1/2025 12:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

**E5G0045-10 (Soil)
Enthalpy Analytical**

TOTAL METALS BY SW7199

Chromium, Hexavalent	0.21	0.08	0.19	mg/kg	1	BIG0793	07/16/2025	07/22/2025	
----------------------	------	------	------	-------	---	---------	------------	------------	--

Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.669		0.100	mg/L	1	B5G0207	07/02/2025	07/07/2025	
-------	-------	--	-------	------	---	---------	------------	------------	--

Metals by Saturated Paste by EPA 6010

Calcium	3.71		0.499	meq/L	10	[CALC]	07/02/2025	07/07/2025	
Magnesium	1.28		0.823	"	"	"	"	"	
Sodium	2.36		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.71			pH Units	1	B5G0218	07/02/2025	07/07/2025	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	1.49		0.0100	SAR	1	B5G0211	07/02/2025	07/07/2025	
-----	------	--	--------	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.771		0.00500	mmhos/cm	1	B5G0218	07/02/2025	07/07/2025	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

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 - Nishimoto 23-36/10-36 Facility

BG04@3"
7/1/2025 12:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

E5G0045-10 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	4.57		0.256	mg/kg	10	B5G0245	07/02/2025	07/07/2025	
Barium	167		72.2	"	"	"	"	"	
Cadmium	0.465		0.335	"	"	"	"	"	
Copper	ND		40.5	"	"	"	"	"	U
Lead	27.9		12.3	"	"	"	"	"	
Nickel	ND		22.9	"	"	"	"	"	U
Selenium	0.481		0.229	"	"	"	"	"	
Silver	ND		0.705	"	"	"	"	"	U
Zinc	ND		326	"	"	"	"	"	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 - Nishimoto 23-36/10-36 Facility

BG04@3'

7/1/2025 12:33:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

**E5G0045-11 (Soil)
 Enthalpy Analytical**

TOTAL METALS BY SW7199

Chromium, Hexavalent	0.18	0.08	0.20	mg/kg	1	BIG0793	07/16/2025	07/22/2025	J
----------------------	------	------	------	-------	---	---------	------------	------------	---

Origins Laboratory

Boron (DTPA Sorbitol)

Boron	ND		0.994	mg/L	10	B5G0207	07/02/2025	07/08/2025	U
-------	----	--	-------	------	----	---------	------------	------------	---

Metals by Saturated Paste by EPA 6010

Calcium	2.29		0.499	meq/L	"	[CALC]	07/02/2025	07/07/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	11.8		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.10			pH Units	1	B5G0218	07/02/2025	07/07/2025	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	9.49		0.0100	SAR	1	B5G0211	07/02/2025	07/07/2025	
-----	------	--	--------	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.54		0.00500	mmhos/cm	1	B5G0218	07/02/2025	07/07/2025	
---------------------------	------	--	---------	----------	---	---------	------------	------------	--

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 - Nishimoto 23-36/10-36 Facility

BG04@3'

7/1/2025 12:33:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

E5G0045-11 (Soil)
 Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	3.98		0.246	mg/kg	10	B5G0245	07/02/2025	07/07/2025	
Barium	139		69.5	"	"	"	"	"	
Cadmium	ND		0.322	"	"	"	"	"	U
Copper	ND		39.0	"	"	"	"	"	U
Lead	19.9		11.9	"	"	"	"	"	
Nickel	ND		22.0	"	"	"	"	"	U
Selenium	0.736		0.220	"	"	"	"	"	
Silver	ND		0.678	"	"	"	"	"	U
Zinc	ND		314	"	"	"	"	"	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 - Nishimoto 23-36/10-36 Facility

BG04@6'

7/1/2025 12:35:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

**E5G0045-12 (Soil)
Enthalpy Analytical**

TOTAL METALS BY SW7199

Chromium, Hexavalent	0.34	0.08	0.20	mg/kg	1	BIG0793	07/16/2025	07/22/2025	
----------------------	------	------	------	-------	---	---------	------------	------------	--

Origins Laboratory

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B5G0207	07/02/2025	07/07/2025	U
-------	----	--	-------	------	---	---------	------------	------------	---

Metals by Saturated Paste by EPA 6010

Calcium	0.778		0.499	meq/L	10	[CALC]	07/02/2025	07/07/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.67		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.81			pH Units	1	B5G0218	07/02/2025	07/07/2025	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	2.27		0.0100	SAR	1	B5G0211	07/02/2025	07/07/2025	
-----	------	--	--------	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.335		0.00500	mmhos/cm	1	B5G0218	07/02/2025	07/07/2025	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

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 - Nishimoto 23-36/10-36 Facility

BG04@6'

7/1/2025 12:35:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

E5G0045-12 (Soil)
 Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	1.08		0.280	mg/kg	10	B5G0245	07/02/2025	07/07/2025	
Barium	ND		79.3	"	"	"	"	"	U
Cadmium	ND		0.367	"	"	"	"	"	U
Copper	ND		44.5	"	"	"	"	"	U
Lead	ND		13.5	"	"	"	"	"	U
Nickel	ND		25.1	"	"	"	"	"	U
Selenium	ND		0.251	"	"	"	"	"	U
Silver	ND		0.774	"	"	"	"	"	U
Zinc	ND		358	"	"	"	"	"	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 - Nishimoto 23-36/10-36 Facility

Classical Chemistry Parameters - Quality Control
Origins Laboratory

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

Batch B5G0207 - DTPA Sorbitol Preparation

Blank (B5G0207-BLK1)

Prepared: 07/02/2025 Analyzed: 07/07/2025

Boron	ND	0.100	mg/L							U
-------	----	-------	------	--	--	--	--	--	--	---

Duplicate (B5G0207-DUP1)

Source: E5G0045-01

Prepared: 07/02/2025 Analyzed: 07/07/2025

Boron	1.06	0.101	mg/L		0.996			5.97	50	
-------	------	-------	------	--	-------	--	--	------	----	--

Batch B5G0211 - Saturated Paste Metals

Blank (B5G0211-BLK1)

Prepared: 07/02/2025 Analyzed: 07/07/2025

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 (B5G0211-DUP1)

Source: E5G0045-01

Prepared: 07/02/2025 Analyzed: 07/07/2025

Calcium PPM	54.4	10.0	mg/L		69.5			24.3	50	
SAR	ND	0.0100	SAR		1.60				200	U
Magnesium PPM	11.0	10.0	mg/L		14.3			25.9	50	
Sodium PPM	49.2	10.0	"		56.2			13.3	50	

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 - Nishimoto 23-36/10-36 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B5G0245 - EPA 3050B

Blank (B5G0245-BLK1)

Prepared: 07/02/2025 Analyzed: 07/07/2025

Arsenic	ND	0.290	mg/kg							U
Barium	ND	82.0	"							U
Cadmium	ND	0.380	"							U
Copper	ND	46.0	"							U
Lead	ND	14.0	"							U
Nickel	ND	26.0	"							U
Selenium	ND	0.260	"							U
Silver	ND	0.800	"							U
Zinc	ND	370	"							U

LCS (B5G0245-BS1)

Prepared: 07/02/2025 Analyzed: 07/07/2025

Arsenic	5.30	0.290	mg/kg	5.00		106	80-120			
Barium	522	82.0	"	500		104	80-120			
Cadmium	5.96	0.380	"	5.00		119	80-120			
Copper	53.1	46.0	"	50.0		106	80-120			
Lead	5.67	14.0	"	5.00		113	80-120			U
Nickel	5.92	26.0	"	5.00		118	80-120			U
Selenium	5.66	0.260	"	5.00		113	80-120			
Silver	5.86	0.800	"	5.00		117	80-120			
Zinc	55.5	370	"	50.0		111	80-120			U

Matrix Spike (B5G0245-MS1)

Source: E5G0041-01

Prepared: 07/02/2025 Analyzed: 07/07/2025

Arsenic	5.94	0.282	mg/kg	4.86	1.05	101	75-125			
Barium	552	79.6	"	486	30.5	107	75-125			
Cadmium	5.36	0.369	"	4.86	0.0151	110	75-125			
Copper	50.5	44.7	"	48.6	0.953	102	75-125			
Lead	8.85	13.6	"	4.86	3.51	110	75-125			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 - Nishimoto 23-36/10-36 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B5G0245 - EPA 3050B

Matrix Spike (B5G0245-MS1)

Source: E5G0041-01

Prepared: 07/02/2025 Analyzed: 07/07/2025

Nickel	7.26	25.2	mg/kg	4.86	1.91	110	75-125			U
Selenium	5.32	0.252	"	4.86	0.0435	109	75-125			
Silver	5.34	0.777	"	4.86	0.00533	110	75-125			
Zinc	61.2	359	"	48.6	10.3	105	75-125			U

Matrix Spike Dup (B5G0245-MSD1)

Source: E5G0041-01

Prepared: 07/02/2025 Analyzed: 07/07/2025

Arsenic	6.04	0.282	mg/kg	4.86	1.05	103	75-125	1.55	20	
Barium	520	79.7	"	486	30.5	101	75-125	5.97	20	
Cadmium	5.41	0.369	"	4.86	0.0151	111	75-125	0.996	20	
Copper	51.9	44.7	"	48.6	0.953	105	75-125	2.59	20	
Lead	8.57	13.6	"	4.86	3.51	104	75-125	3.15	20	U
Nickel	7.58	25.3	"	4.86	1.91	117	75-125	4.29	20	U
Selenium	5.34	0.253	"	4.86	0.0435	109	75-125	0.241	20	
Silver	5.45	0.777	"	4.86	0.00533	112	75-125	2.04	20	
Zinc	61.2	360	"	48.6	10.3	105	75-125	0.144	20	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 - Nishimoto 23-36/10-36 Facility

Saturated Paste - Quality Control
Origins Laboratory

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

Batch B5G0218 - Saturated Paste pH/EC

Blank (B5G0218-BLK1)

Prepared: 07/02/2025 Analyzed: 07/07/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
---------------------------	----	---------	----------	--	--	--	--	--	--	---

Duplicate (B5G0218-DUP1)

Source: E5G0045-01

Prepared: 07/02/2025 Analyzed: 07/07/2025

pH	8.01		pH Units		7.89			1.51		25
----	------	--	----------	--	------	--	--	------	--	----

Specific Conductance (EC)	0.654	0.00500	mmhos/cm		0.700			6.73		25
---------------------------	-------	---------	----------	--	-------	--	--	------	--	----

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 - Nishimoto 23-36/10-36 Facility

TOTAL METALS BY SW7199 - Quality Control
Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BIG0793 - No Prep IC-WET										
Blank (BIG0793-BLK1)										
					Prepared: 07/16/2025 Analyzed: 07/22/2025					
Chromium, Hexavalent	ND	0.005	mg/kg							
LCS (BIG0793-BS1)										
					Prepared: 07/16/2025 Analyzed: 07/22/2025					
Chromium, Hexavalent	0.05	0.005	mg/kg	0.0500		108	80-120			
LCS (BIG0793-BS2)										
					Prepared: 07/16/2025 Analyzed: 07/22/2025					
Chromium, Hexavalent	7.23	1.00	mg/kg	8.40		86.0	80-120			
Matrix Spike (BIG0793-MS1)										
		Source: 25G0602-05			Prepared: 07/16/2025 Analyzed: 07/22/2025					
Chromium, Hexavalent	2.05	0.20	mg/kg	1.97	ND	104	75-125			
Matrix Spike Dup (BIG0793-MSD1)										
		Source: 25G0602-05			Prepared: 07/16/2025 Analyzed: 07/22/2025					
Chromium, Hexavalent	2.21	0.20	mg/kg	2.01	ND	110	75-125	7.84	20	

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 - Nishimoto 23-36/10-36 Facility

Notes and Definitions

- U Sample is Non-Detect.
 - J The reported result is an estimated value.
 - 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

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.