



Ensolum

January 16, 2025

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - Sarchet 41-23 & UPRR 42-23
3X Wellhead**

Project Number - 09A1417890

Attached are your analytical results for KMG - Sarchet 41-23 & UPRR 42-23 3X Wellhead received by Origins Laboratory December 06, 2024. This project is associated with Origins project number E4L0258-01.

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

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417890

Project: KMG - Sarchet 41-23 & UPRR 42-23 3X
Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01(41-23)@6'	E4L0258-01	Soil	December 6, 2024 13:20	12/06/2024 17:54
B01(41-23)@6'-V	E4L0258-02	Soil	December 6, 2024 13:25	12/06/2024 17:54
WH01-RISER(41-23)@3'	E4L0258-03	Soil	December 6, 2024 13:30	12/06/2024 17:54
WH01-RISER(41-23)@3'-V	E4L0258-04	Soil	December 6, 2024 13:35	12/06/2024 17:54
WH01-RISER(42-23 3X)@3'	E4L0258-05	Soil	December 6, 2024 15:45	12/06/2024 17:54
WH01-RISER(42-23 3X)@3'-V	E4L0258-06	Soil	December 6, 2024 15:50	12/06/2024 17:54
NATIVE-BG01@3'	E4L0258-07	Soil	December 6, 2024 14:25	12/06/2024 17:54
NATIVE-BG01@6'	E4L0258-08	Soil	December 6, 2024 14:30	12/06/2024 17:54
NATIVE-BG02@3'	E4L0258-09	Soil	December 6, 2024 14:35	12/06/2024 17:54
NATIVE-BG02@6'	E4L0258-10	Soil	December 6, 2024 14:40	12/06/2024 17:54
NATIVE-BG03@3'	E4L0258-11	Soil	December 6, 2024 14:42	12/06/2024 17:54
NATIVE-BG03@6'	E4L0258-12	Soil	December 6, 2024 14:45	12/06/2024 17:54
NATIVE-BG04@3'	E4L0258-13	Soil	December 6, 2024 14:47	12/06/2024 17:54
NATIVE-BG04@6'	E4L0258-14	Soil	December 6, 2024 14:50	12/06/2024 17:54

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Jeremy Espinoza

Project Number: 09A1417890

Project: KMG - Sarchet 41-23 & UPRR 42-23 3X
Wellhead

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NATIVE-BG05@3'	E4L0258-15	Soil	December 6, 2024 14:52	12/06/2024 17:54
NATIVE-BG05@6'	E4L0258-16	Soil	December 6, 2024 14:55	12/06/2024 17:54
NATIVE-BG06@3'	E4L0258-17	Soil	December 6, 2024 15:00	12/06/2024 17:54
NATIVE-BG06@6'	E4L0258-18	Soil	December 6, 2024 15:02	12/06/2024 17:54
NATIVE-BG07@3'	E4L0258-19	Soil	December 6, 2024 15:05	12/06/2024 17:54
NATIVE-BG07@6'	E4L0258-20	Soil	December 6, 2024 15:07	12/06/2024 17:54
NATIVE-BG08@3'	E4L0258-21	Soil	December 6, 2024 15:30	12/06/2024 17:54
NATIVE-BG08@6'	E4L0258-22	Soil	December 6, 2024 15:35	12/06/2024 17:54

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Jeremy Espinoza

Project Number: 09A1417890

Project: KMG - Sarchet 41-23 & UPRR 42-23 3X Wellhead

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640258

Client: Ensolum LLC

Project Manager: Jeremy Espinoza

Address: Sarchet 41-23 & Sarchet UPRR 42-23 3X Wellhead

Project Name: 09A1417890

Project Number: LC

Telephone Number: (970) 570-2134

Email Address: KMG Team

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Soil	Groundwater	Other	HCI	Unpreserved	Ball Table 915-1	Ball Table 915-2	Ball Table 915-3	Ball Table 915-4	Ball Table 915-5	Ball Table 915-6	Ball Table 915-7	Ball Table 915-8	Ball Table 915-9	Ball Table 915-10	Sample Instructions
801 41-23 PU	12/6/24	1320	3	X						X										Match 801 - Match 801
801 41-23 PU		1325	3																	also associated w/ 2
801 41-23 PU		1330	3							X										Sarchet 41-23 42-23
801 41-23 PU		1335	3																	Facility
801 41-23 PU		1345	3							X										09A1417890
801 41-23 PU		1350	3																	Added per the email
801 41-23 PU		1405	2																	from Jeremy on 12/13/24
801 41-23 PU		1410	2																	801 41-23 42-23 3X Wellhead
801 41-23 PU		1415	2																	Match 801 - Match 801
801 41-23 PU		1440	2																	Match 801 - Match 801
Relinquished By: <i>Jeremy Espinoza</i>	Date: 12/6/24	Time: 1354																		Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>
Relinquished By: <i>Jeremy Espinoza</i>	Date: 12/6/24	Time: 1354																		

Date Results Needed

Origins Laboratory

Byron

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Jeremy Espinoza

Project Number: 09A1417890

Project: KMG - Sarchet 41-23 & UPRR 42-23 3X Wellhead

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page 2 of 3

640258

Client: Ensolum LLC

Project Manager: Jeremy Espinoza

Project Name: Sarchet 41-23 & Sarchet UPRR 42-23 3X Wellhead

Project Number: 09A1417890

Telephone Number: 970-590-2034

Email Address: KMG Team

Samples Collected By: JC

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Soil	Full Table 915-1	EC/PT SAR/PT	TH/GR/PC/AC/BC/CO	1.24/1.14/1.05/TH/PT	DATE	Time	Turnaround Time
Native-Bios 03'	11/16/14	1442	2	X	X	X	X	X	X	12/02/14	1754	24 Hr
Native-Bios 06'		1445										48 Hr
Native-Bios 07'		1447										72 Hr
Native-Bios 08'		1450										Standard
Native-Bios 03'		1452										
Native-Bios 05'		1455										
Native-Bios 06'		1500										
Native-Bios 06'		1502										
Native-Bios 03'		1505										
Native-Bios 07'		1507										
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:						
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:						

Date Results Needed

Origins Laboratory

J. Bynon

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Jeremy Espinoza

Project Number: 09A1417890

Project: KMG - Sarchet 41-23 & UPRR 42-23 3X Wellhead

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

Sample Receipt Checklist

Origins Work Order: E410250 Client: Ensolum
Client Project ID: Sarchet

Checklist Completed by: SHC Shipped Via: HO
Date/Time completed: 12/10/12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A

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

Cooler Number/Temperature: 116 °C °C °C (Describe) °C

Thermometer ID: 7007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<u>✓</u>			
Is there ice present (document if blue ice is used)	<u>✓</u>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<u>✓</u>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<u>✓</u>		
Were all samples received intact ⁽¹⁾ ?	<u>✓</u>			
Was adequate sample volume provided ⁽¹⁾ ?	<u>✓</u>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<u>✓</u>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<u>✓</u>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<u>✓</u>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<u>✓</u>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<u>✓</u>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<u>✓</u>	
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 NaAsO ₂ +NaOH, ZnAc+NaOH)			<u>✓</u>	
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) SHC

Date/Time Reviewed 12/10/12

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Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X
Wellhead

B01(41-23)@6'

12/6/2024 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0258-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B4L0906	12/09/2024	12/11/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	145	25.0	mg/kg	1	B4L0648	12/06/2024	12/07/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	75.3 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4L0646	12/06/2024	12/06/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	5.09	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.4 %	70-130			"	"	"	

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Wellhead

B01(41-23)@6'

12/6/2024 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0258-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	100 %	70-130	B4L06 46	12/06/2024	12/06/2024
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Metals by Saturated Paste by EPA 6010

Calcium	3.28	0.499	meq/L	10	[CALC]	12/10/2024	12/12/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270E SIM

1-Methylnaphthalene	0.00337	0.00124	0.00374	mg/kg dry	1	2721434	12/16/2024	12/16/2024	J
2-Methylnaphthalene	0.00337	0.00124	0.00374	"	"	"	"	"	J
Acenaphthene	ND	0.00124	0.00374	"	"	"	"	"	U
Anthracene	ND	0.00124	0.00374	"	"	"	"	"	U
Benzo(a)anthracene	0.00225	0.00124	0.00374	"	"	"	"	"	J
Benzo(a)pyrene	ND	0.00124	0.00374	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00124	0.00374	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00124	0.00374	"	"	"	"	"	U
Chrysene	ND	0.00124	0.00374	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00124	0.00374	"	"	"	"	"	U
Fluoranthene	ND	0.00124	0.00374	"	"	"	"	"	U
Fluorene	ND	0.00124	0.00374	"	"	"	"	"	U

Origins Laboratory



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B01(41-23)@6'

12/6/2024 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
E4L0258-01 (Soil)

PAH by 8270E SIM

Indeno(1,2,3-cd)pyrene	ND	0.00124	0.00374	mg/kg dry	1	2721434	12/16/2024	12/16/2024	U
Naphthalene	ND	0.00124	0.00374	"	"	"	"	"	U
Pyrene	0.00225	0.00124	0.00374	"	"	"	"	"	J

Surrogate: 5-alpha-Androstane	38 %	22-135	"	"	"
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pH in Soil by 9045D

pH	9.72	pH Units	1	B4L1022	12/10/2024	12/11/2024
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SAR by 20B Saturated Paste

SAR	0.312	0.0100	SAR	1	B4L1013	12/10/2024	12/12/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.518	0.00500	mmhos/cm	1	B4L1022	12/10/2024	12/11/2024
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Table 915 metals by EPA 6020B

Arsenic	1.83	0.267	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Barium	160	9.20	"	"	"	"	"
Cadmium	0.109	0.0920	"	"	"	"	"
Copper	ND	9.20	"	"	"	"	"

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Project Number: 09A1417890

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Wellhead

B01(41-23)@6'

12/6/2024 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0258-01 (Soil)

Table 915 metals by EPA 6020B

Lead	17.0		0.920	mg/kg	10	B4L0650	12/06/2024	12/07/2024	
Nickel	4.37		0.920	"	"	"	"	"	
Selenium	ND		0.239	"	"	"	"	"	
Silver	ND		0.0920	"	"	"	"	"	
Zinc	ND		34.0	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.155	0.387	mg/kg dry	1	2727307	01/03/2025	01/10/2025	U
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Wellhead

B01(41-23)@6'-V

12/6/2024 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0258-02 (Soil)

pH in Soil by 9045D

pH	8.62			pH Units	1	B4L1346	12/13/2024	12/16/2024
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Table 915 metals by EPA 6020B

Barium	115	8.52	mg/kg	10	B4L1621	12/16/2024	12/18/2024
Lead	14.2	0.852	"	"	"	"	"

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Wellhead

WH01-RISER(41-23)@3'

12/6/2024 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0258-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0989	mg/L	1	B4L0906	12/09/2024	12/11/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4L0648	12/06/2024	12/07/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	72.1 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4L0646	12/06/2024	12/06/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130	"	"	"
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Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X Wellhead

WH01-RISER(41-23)@3'

12/6/2024 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4L0258-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.6 %		70-130			B4L06 46	12/06/2024	12/06/2024	
Surrogate: 4-Bromofluorobenzene	103 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.657		0.499	meq/L	10	[CALC]	12/10/2024	12/12/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270E SIM

1-Methylnaphthalene	ND	0.00122	0.00371	mg/kg dry	1	2721434	12/16/2024	12/16/2024	U
2-Methylnaphthalene	ND	0.00122	0.00371	"	"	"	"	"	U
Acenaphthene	ND	0.00122	0.00371	"	"	"	"	"	U
Anthracene	ND	0.00122	0.00371	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00122	0.00371	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00122	0.00371	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00122	0.00371	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00122	0.00371	"	"	"	"	"	U
Chrysene	ND	0.00122	0.00371	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00122	0.00371	"	"	"	"	"	U
Fluoranthene	ND	0.00122	0.00371	"	"	"	"	"	U

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Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X Wellhead

WH01-RISER(41-23)@3'

12/6/2024 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC

E4L0258-03 (Soil)

PAH by 8270E SIM

Fluorene	ND	0.00122	0.00371	mg/kg dry	1	2721434	12/16/2024	12/16/2024	U
Indeno(1,2,3-cd)pyrene	ND	0.00122	0.00371	"	"	"	"	"	U
Naphthalene	ND	0.00122	0.00371	"	"	"	"	"	U
Pyrene	ND	0.00122	0.00371	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 46 % 22-135 " " "

pH in Soil by 9045D

pH	8.47			pH Units	1	B4L1022	12/10/2024	12/11/2024	
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SAR by 20B Saturated Paste

SAR	ND		0.0100	SAR	1	B4L1013	12/10/2024	12/12/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.210		0.00500	mmhos/cm	1	B4L1022	12/10/2024	12/11/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.70		0.278	mg/kg	10	B4L0650	12/06/2024	12/07/2024	
Barium	405		9.57	"	"	"	"	"	

Origins Laboratory



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X Wellhead

WH01-RISER(41-23)@3'

12/6/2024 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0258-03 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.119	0.0957	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Copper	ND	9.57	"	"	"	"	"
Lead	77.2	0.957	"	"	"	"	"
Nickel	3.53	0.957	"	"	"	"	"
Selenium	ND	0.249	"	"	"	"	"
Silver	ND	0.0957	"	"	"	"	"
Zinc	ND	35.4	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.162	0.404	mg/kg dry	1	2727307	01/03/2025	01/10/2025	U
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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417890

Project: KMG - Sarchet 41-23 & UPRR 42-23 3X
Wellhead

WH01-RISER(41-23)@3'-V

12/6/2024 1:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0258-04 (Soil)

pH in Soil by 9045D

pH	8.35			pH Units	1	B4L1346	12/13/2024	12/16/2024
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Table 915 metals by EPA 6020B

Barium	136	9.24	mg/kg	10	B4L1621	12/16/2024	12/18/2024
Lead	20.3	0.924	"	"	"	"	"

Origins Laboratory

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X
Wellhead

WH01-RISER(42-23 3X)@3'

12/6/2024 3:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0258-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0994	mg/L	1	B4L0906	12/09/2024	12/11/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4L0648	12/06/2024	12/07/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	66.4 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4L0646	12/06/2024	12/06/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	98.9 %	70-130			"	"	"	
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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X Wellhead

WH01-RISER(42-23 3X)@3'

12/6/2024 3:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4L0258-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	105 %		70-130			B4L06 46	12/06/2024	12/06/2024	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.46		0.499	meq/L	10	[CALC]	12/10/2024	12/12/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270E SIM

1-Methylnaphthalene	ND	0.00119	0.00360	mg/kg dry	1	2721434	12/16/2024	12/16/2024	U
2-Methylnaphthalene	0.00180	0.00119	0.00360	"	"	"	"	"	J
Acenaphthene	ND	0.00119	0.00360	"	"	"	"	"	U
Anthracene	ND	0.00119	0.00360	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00119	0.00360	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00119	0.00360	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00119	0.00360	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00119	0.00360	"	"	"	"	"	U
Chrysene	0.00575	0.00119	0.00360	"	"	"	"	"	
Dibenzo(a,h)anthracene	ND	0.00119	0.00360	"	"	"	"	"	U
Fluoranthene	ND	0.00119	0.00360	"	"	"	"	"	U

Origins Laboratory



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X Wellhead

WH01-RISER(42-23 3X)@3'

12/6/2024 3:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC

E4L0258-05 (Soil)

PAH by 8270E SIM

Fluorene	ND	0.00119	0.00360	mg/kg dry	1	2721434	12/16/2024	12/16/2024	U
Indeno(1,2,3-cd)pyrene	ND	0.00119	0.00360	"	"	"	"	"	U
Naphthalene	ND	0.00119	0.00360	"	"	"	"	"	U
Pyrene	0.00288	0.00119	0.00360	"	"	"	"	"	J

Surrogate: 5-alpha-Androstane 51 % 22-135 " " "

pH in Soil by 9045D

pH	7.87			pH Units	1	B4L1022	12/10/2024	12/11/2024	
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SAR by 20B Saturated Paste

SAR	ND		0.0100	SAR	1	B4L1013	12/10/2024	12/12/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.230		0.00500	mmhos/cm	1	B4L1022	12/10/2024	12/11/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.16		0.268	mg/kg	10	B4L0650	12/06/2024	12/07/2024	
Barium	28.9		9.23	"	"	"	"	"	

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417890

Project: KMG - Sarchet 41-23 & UPRR 42-23 3X
Wellhead

WH01-RISER(42-23 3X)@3'

12/6/2024 3:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0258-05 (Soil)

Table 915 metals by EPA 6020B

Cadmium	ND	0.0923	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Copper	10.4	9.23	"	"	"	"	"
Lead	43.4	0.923	"	"	"	"	"
Nickel	2.57	0.923	"	"	"	"	"
Selenium	ND	0.240	"	"	"	"	"
Silver	ND	0.0923	"	"	"	"	"
Zinc	37.2	34.2	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.148	0.369	mg/kg dry	1	2727307	01/03/2025	01/10/2025	U
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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417890

Project: KMG - Sarchet 41-23 & UPRR 42-23 3X
Wellhead

WH01-RISER(42-23 3X)@3'-V

12/6/2024 3:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0258-06 (Soil)

pH in Soil by 9045D

pH	8.00			pH Units	1	B4L1346	12/13/2024	12/16/2024	
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Table 915 metals by EPA 6020B

Lead	139		0.973	mg/kg	10	B4L1621	12/16/2024	12/18/2024	
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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X Wellhead

NATIVE-BG01@3'

12/6/2024 2:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4L0258-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0993	mg/L	1	B4L0906	12/09/2024	12/11/2024
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	12/10/2024	12/12/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.52		pH Units	1	B4L1022	12/10/2024	12/11/2024
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SAR by 20B Saturated Paste

SAR	ND	0.0100	SAR	1	B4L1013	12/10/2024	12/12/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0477	0.00500	mmhos/cm	1	B4L1022	12/10/2024	12/11/2024
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Table 915 metals by EPA 6020B

Arsenic	1.48	0.252	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Barium	42.2	8.70	"	"	"	"	"
Cadmium	ND	0.0870	"	"	"	"	"

Origins Laboratory



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417890

Project: KMG - Sarchet 41-23 & UPRR 42-23 3X Wellhead

NATIVE-BG01@3'

12/6/2024 2:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0258-07 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	8.70	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Lead	3.86	0.870	"	"	"	"	"
Nickel	3.41	0.870	"	"	"	"	"
Selenium	ND	0.226	"	"	"	"	"
Silver	ND	0.0870	"	"	"	"	"
Zinc	ND	32.2	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.134	0.335	mg/kg dry	1	2727307	01/03/2025	01/10/2025	U
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Origins Laboratory



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X
Wellhead

NATIVE-BG01@6'

12/6/2024 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0258-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0989	mg/L	1	B4L0906	12/09/2024	12/11/2024
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	12/10/2024	12/12/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.45		pH Units	1	B4L1022	12/10/2024	12/11/2024
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SAR by 20B Saturated Paste

SAR	0.152	0.0100	SAR	1	B4L1013	12/10/2024	12/12/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0404	0.00500	mmhos/cm	1	B4L1022	12/10/2024	12/11/2024
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Table 915 metals by EPA 6020B

Arsenic	1.59	0.285	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Barium	63.7	9.83	"	"	"	"	"
Cadmium	ND	0.0983	"	"	"	"	"

Origins Laboratory

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417890

Project: KMG - Sarchet 41-23 & UPRR 42-23 3X
Wellhead

NATIVE-BG01@6'

12/6/2024 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0258-08 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.83	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Lead	4.84	0.983	"	"	"	"	"
Nickel	4.79	0.983	"	"	"	"	"
Selenium	ND	0.256	"	"	"	"	"
Silver	ND	0.0983	"	"	"	"	"
Zinc	ND	36.4	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.151	0.377	mg/kg dry	1	2727307	01/03/2025	01/10/2025	U
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Origins Laboratory

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X
Wellhead

NATIVE-BG02@3'

12/6/2024 2:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4L0258-09 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0993	mg/L	1	B4L0906	12/09/2024	12/11/2024
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Metals by Saturated Paste by EPA 6010

Calcium	1.24	0.499	meq/L	10	[CALC]	12/10/2024	12/12/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.11		pH Units	1	B4L1022	12/10/2024	12/11/2024
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SAR by 20B Saturated Paste

SAR	0.0363	0.0100	SAR	1	B4L1013	12/10/2024	12/12/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.203	0.00500	mmhos/cm	1	B4L1022	12/10/2024	12/11/2024
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Table 915 metals by EPA 6020B

Arsenic	2.21	0.273	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Barium	45.8	9.40	"	"	"	"	"
Cadmium	ND	0.0940	"	"	"	"	"

Origins Laboratory



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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417890

Project: KMG - Sarchet 41-23 & UPRR 42-23 3X Wellhead

NATIVE-BG02@3'

12/6/2024 2:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0258-09 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.40	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Lead	6.13	0.940	"	"	"	"	"
Nickel	4.00	0.940	"	"	"	"	"
Selenium	ND	0.244	"	"	"	"	"
Silver	ND	0.0940	"	"	"	"	"
Zinc	ND	34.8	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.128	0.320	mg/kg dry	1	2727307	01/03/2025	01/10/2025	U
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Origins Laboratory

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X
Wellhead

NATIVE-BG02@6'

12/6/2024 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4L0258-10 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0993	mg/L	1	B4L0906	12/09/2024	12/11/2024
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Metals by Saturated Paste by EPA 6010

Calcium	2.65	0.499	meq/L	10	[CALC]	12/10/2024	12/12/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.11		pH Units	1	B4L1022	12/10/2024	12/11/2024
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SAR by 20B Saturated Paste

SAR	0.107	0.0100	SAR	1	B4L1013	12/10/2024	12/12/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.376	0.00500	mmhos/cm	1	B4L1022	12/10/2024	12/11/2024
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Table 915 metals by EPA 6020B

Arsenic	2.63	0.261	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Barium	64.4	9.01	"	"	"	"	"
Cadmium	0.115	0.0901	"	"	"	"	"

Origins Laboratory



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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417890

Project: KMG - Sarchet 41-23 & UPRR 42-23 3X Wellhead

NATIVE-BG02@6'

12/6/2024 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0258-10 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.01	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Lead	8.64	0.901	"	"	"	"	"
Nickel	6.32	0.901	"	"	"	"	"
Selenium	0.240	0.234	"	"	"	"	"
Silver	ND	0.0901	"	"	"	"	"
Zinc	ND	33.3	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.154	0.385	mg/kg dry	1	2727307	01/03/2025	01/10/2025	U
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Origins Laboratory



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X Wellhead

NATIVE-BG03@3'

12/6/2024 2:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4L0258-11 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0987	mg/L	1	B4L0906	12/09/2024	12/11/2024
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	12/10/2024	12/12/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	6.85		pH Units	1	B4L1022	12/10/2024	12/11/2024
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SAR by 20B Saturated Paste

SAR	ND	0.0100	SAR	1	B4L1013	12/10/2024	12/12/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0621	0.00500	mmhos/cm	1	B4L1022	12/10/2024	12/11/2024
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Table 915 metals by EPA 6020B

Arsenic	1.34	0.243	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Barium	36.4	8.39	"	"	"	"	"
Cadmium	0.108	0.0839	"	"	"	"	"

Origins Laboratory



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417890

Project: KMG - Sarchet 41-23 & UPRR 42-23 3X
Wellhead

NATIVE-BG03@3'

12/6/2024 2:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0258-11 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	8.39	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Lead	5.97	0.839	"	"	"	"	"
Nickel	2.35	0.839	"	"	"	"	"
Selenium	ND	0.218	"	"	"	"	"
Silver	ND	0.0839	"	"	"	"	"
Zinc	ND	31.1	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.142	0.354	mg/kg dry	1	2727307	01/03/2025	01/10/2025	U
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Origins Laboratory

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X Wellhead

NATIVE-BG03@6'

12/6/2024 2:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0258-12 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0985	mg/L	1	B4L0906	12/09/2024	12/11/2024
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	12/10/2024	12/12/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.21		pH Units	1	B4L1022	12/10/2024	12/11/2024
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SAR by 20B Saturated Paste

SAR	0.452	0.0100	SAR	1	B4L1013	12/10/2024	12/12/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0807	0.00500	mmhos/cm	1	B4L1022	12/10/2024	12/11/2024
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Table 915 metals by EPA 6020B

Arsenic	1.35	0.275	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Barium	49.6	9.47	"	"	"	"	"
Cadmium	ND	0.0947	"	"	"	"	"

Origins Laboratory



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417890

Project: KMG - Sarchet 41-23 & UPRR 42-23 3X Wellhead

NATIVE-BG03@6'

12/6/2024 2:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0258-12 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.47	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Lead	4.13	0.947	"	"	"	"	"
Nickel	3.51	0.947	"	"	"	"	"
Selenium	ND	0.246	"	"	"	"	"
Silver	ND	0.0947	"	"	"	"	"
Zinc	ND	35.0	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.149	0.372	mg/kg dry	1	2727307	01/03/2025	01/10/2025	U
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Origins Laboratory



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X Wellhead

NATIVE-BG04@3'

12/6/2024 2:47:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4L0258-13 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0993	mg/L	1	B4L0906	12/09/2024	12/11/2024
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	12/10/2024	12/12/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.64		pH Units	1	B4L1022	12/10/2024	12/11/2024
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SAR by 20B Saturated Paste

SAR	ND	0.0100	SAR	1	B4L1013	12/10/2024	12/12/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0671	0.00500	mmhos/cm	1	B4L1022	12/10/2024	12/11/2024
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Table 915 metals by EPA 6020B

Arsenic	1.52	0.289	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Barium	46.0	9.96	"	"	"	"	"
Cadmium	ND	0.0996	"	"	"	"	"

Origins Laboratory



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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417890

Project: KMG - Sarchet 41-23 & UPRR 42-23 3X
Wellhead

NATIVE-BG04@3'

12/6/2024 2:47:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0258-13 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.96	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Lead	5.97	0.996	"	"	"	"	"
Nickel	3.56	0.996	"	"	"	"	"
Selenium	ND	0.259	"	"	"	"	"
Silver	ND	0.0996	"	"	"	"	"
Zinc	ND	36.8	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.141	0.352	mg/kg dry	1	2727307	01/03/2025	01/10/2025	U
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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X Wellhead

NATIVE-BG04@6'

12/6/2024 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4L0258-14 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0993	mg/L	1	B4L0906	12/09/2024	12/11/2024
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	12/10/2024	12/12/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.71		pH Units	1	B4L1022	12/10/2024	12/11/2024
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SAR by 20B Saturated Paste

SAR	0.129	0.0100	SAR	1	B4L1013	12/10/2024	12/12/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0508	0.00500	mmhos/cm	1	B4L1022	12/10/2024	12/11/2024
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Table 915 metals by EPA 6020B

Arsenic	2.03	0.262	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Barium	61.5	9.04	"	"	"	"	"
Cadmium	ND	0.0904	"	"	"	"	"

Origins Laboratory



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X
Wellhead

NATIVE-BG04@6'

12/6/2024 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0258-14 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.04	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Lead	5.07	0.904	"	"	"	"	"
Nickel	4.82	0.904	"	"	"	"	"
Selenium	ND	0.235	"	"	"	"	"
Silver	ND	0.0904	"	"	"	"	"
Zinc	ND	33.5	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.149	0.373	mg/kg dry	1	2727307	01/03/2025	01/10/2025	U
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Origins Laboratory

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X Wellhead

NATIVE-BG05@3'

12/6/2024 2:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4L0258-15 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0988	mg/L	1	B4L0906	12/09/2024	12/11/2024
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	12/10/2024	12/12/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.05		pH Units	1	B4L1022	12/10/2024	12/11/2024
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SAR by 20B Saturated Paste

SAR	ND	0.0100	SAR	1	B4L1013	12/10/2024	12/12/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0294	0.00500	mmhos/cm	1	B4L1022	12/10/2024	12/11/2024
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Table 915 metals by EPA 6020B

Arsenic	1.66	0.253	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Barium	46.7	8.72	"	"	"	"	"
Cadmium	ND	0.0872	"	"	"	"	"

Origins Laboratory



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417890

Project: KMG - Sarchet 41-23 & UPRR 42-23 3X Wellhead

NATIVE-BG05@3'

12/6/2024 2:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0258-15 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	8.72	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Lead	4.33	0.872	"	"	"	"	"
Nickel	4.09	0.872	"	"	"	"	"
Selenium	ND	0.227	"	"	"	"	"
Silver	ND	0.0872	"	"	"	"	"
Zinc	ND	32.3	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.161	0.402	mg/kg dry	1	2727307	01/03/2025	01/10/2025	U
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Origins Laboratory



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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417890

Project: KMG - Sarchet 41-23 & UPRR 42-23 3X
Wellhead

NATIVE-BG05@6'

12/6/2024 2:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0258-16 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0982	mg/L	1	B4L0906	12/09/2024	12/11/2024
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	12/10/2024	12/12/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.25		pH Units	1	B4L1023	12/10/2024	12/11/2024
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SAR by 20B Saturated Paste

SAR	0.131	0.0100	SAR	1	B4L1014	12/10/2024	12/12/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0391	0.00500	mmhos/cm	1	B4L1023	12/10/2024	12/11/2024
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Table 915 metals by EPA 6020B

Arsenic	1.25	0.258	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Barium	39.5	8.88	"	"	"	"	"
Cadmium	ND	0.0888	"	"	"	"	"

Origins Laboratory

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417890

Project: KMG - Sarchet 41-23 & UPRR 42-23 3X Wellhead

NATIVE-BG05@6'

12/6/2024 2:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0258-16 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	8.88	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Lead	3.37	0.888	"	"	"	"	"
Nickel	3.53	0.888	"	"	"	"	"
Selenium	ND	0.231	"	"	"	"	"
Silver	ND	0.0888	"	"	"	"	"
Zinc	ND	32.9	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.151	0.378	mg/kg dry	1	2727307	01/03/2025	01/10/2025	U
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Origins Laboratory

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X Wellhead

NATIVE-BG06@3'

12/6/2024 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0258-17 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B4L0906	12/09/2024	12/11/2024
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	12/10/2024	12/12/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	6.92		pH Units	1	B4L1023	12/10/2024	12/11/2024
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SAR by 20B Saturated Paste

SAR	0.0181	0.0100	SAR	1	B4L1014	12/10/2024	12/12/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.136	0.00500	mmhos/cm	1	B4L1023	12/10/2024	12/11/2024
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Table 915 metals by EPA 6020B

Arsenic	1.87	0.242	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Barium	45.6	8.36	"	"	"	"	"
Cadmium	0.107	0.0836	"	"	"	"	"

Origins Laboratory



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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X
Wellhead

NATIVE-BG06@3'

12/6/2024 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0258-17 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	8.36	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Lead	6.31	0.836	"	"	"	"	"
Nickel	3.34	0.836	"	"	"	"	"
Selenium	ND	0.217	"	"	"	"	"
Silver	ND	0.0836	"	"	"	"	"
Zinc	ND	30.9	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.151	0.377	mg/kg dry	1	2727307	01/03/2025	01/10/2025	U
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Origins Laboratory

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X
Wellhead

NATIVE-BG06@6'

12/6/2024 3:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0258-18 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B4L0906	12/09/2024	12/11/2024
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Metals by Saturated Paste by EPA 6010

Calcium	0.656	0.499	meq/L	10	[CALC]	12/10/2024	12/12/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.20		pH Units	1	B4L1023	12/10/2024	12/11/2024
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SAR by 20B Saturated Paste

SAR	0.106	0.0100	SAR	1	B4L1014	12/10/2024	12/12/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.107	0.00500	mmhos/cm	1	B4L1023	12/10/2024	12/11/2024
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Table 915 metals by EPA 6020B

Arsenic	1.60	0.262	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Barium	40.4	9.05	"	"	"	"	"
Cadmium	ND	0.0905	"	"	"	"	"

Origins Laboratory

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X Wellhead

NATIVE-BG06@6'

12/6/2024 3:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0258-18 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.05	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Lead	4.29	0.905	"	"	"	"	"
Nickel	3.09	0.905	"	"	"	"	"
Selenium	ND	0.235	"	"	"	"	"
Silver	ND	0.0905	"	"	"	"	"
Zinc	ND	33.5	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.162	0.406	mg/kg dry	1	2727312	01/03/2025	01/13/2025	HU
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11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X Wellhead

NATIVE-BG07@3'

12/6/2024 3:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4L0258-19 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B4L0907	12/09/2024	12/11/2024
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	12/10/2024	12/12/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.28		pH Units	1	B4L1023	12/10/2024	12/11/2024
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SAR by 20B Saturated Paste

SAR	ND	0.0100	SAR	1	B4L1014	12/10/2024	12/12/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0559	0.00500	mmhos/cm	1	B4L1023	12/10/2024	12/11/2024
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Table 915 metals by EPA 6020B

Arsenic	1.42	0.265	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Barium	43.5	9.12	"	"	"	"	"
Cadmium	ND	0.0912	"	"	"	"	"

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11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X
Wellhead

NATIVE-BG07@3'

12/6/2024 3:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0258-19 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.12	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Lead	4.42	0.912	"	"	"	"	"
Nickel	3.15	0.912	"	"	"	"	"
Selenium	ND	0.237	"	"	"	"	"
Silver	ND	0.0912	"	"	"	"	"
Zinc	ND	33.8	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.101	0.253	mg/kg dry	1	2727312	01/03/2025	01/13/2025	HU
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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X Wellhead

NATIVE-BG07@6'

12/6/2024 3:07:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0258-20 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B4L0907	12/09/2024	12/11/2024
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	12/10/2024	12/12/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.17		pH Units	1	B4L1023	12/10/2024	12/11/2024
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SAR by 20B Saturated Paste

SAR	0.0515	0.0100	SAR	1	B4L1014	12/10/2024	12/12/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0613	0.00500	mmhos/cm	1	B4L1023	12/10/2024	12/11/2024
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Table 915 metals by EPA 6020B

Arsenic	1.48	0.269	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Barium	50.1	9.29	"	"	"	"	"
Cadmium	ND	0.0929	"	"	"	"	"

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X Wellhead

NATIVE-BG07@6'

12/6/2024 3:07:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0258-20 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.29	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Lead	4.32	0.929	"	"	"	"	"
Nickel	4.03	0.929	"	"	"	"	"
Selenium	ND	0.241	"	"	"	"	"
Silver	ND	0.0929	"	"	"	"	"
Zinc	ND	34.4	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.126	0.316	mg/kg dry	1	2727312	01/03/2025	01/13/2025	HU
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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X Wellhead

NATIVE-BG08@3'

12/6/2024 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4L0258-21 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4L0907	12/09/2024	12/11/2024
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	12/10/2024	12/12/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.68		pH Units	1	B4L1023	12/10/2024	12/11/2024
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SAR by 20B Saturated Paste

SAR	0.118	0.0100	SAR	1	B4L1014	12/10/2024	12/12/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0646	0.00500	mmhos/cm	1	B4L1023	12/10/2024	12/11/2024
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Table 915 metals by EPA 6020B

Arsenic	1.39	0.264	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Barium	48.4	9.12	"	"	"	"	"
Cadmium	ND	0.0912	"	"	"	"	"

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X Wellhead

NATIVE-BG08@3'

12/6/2024 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0258-21 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.12	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Lead	3.89	0.912	"	"	"	"	"
Nickel	3.49	0.912	"	"	"	"	"
Selenium	ND	0.237	"	"	"	"	"
Silver	ND	0.0912	"	"	"	"	"
Zinc	ND	33.7	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.131	0.326	mg/kg dry	1	2727312	01/03/2025	01/13/2025	HU
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Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X Wellhead

NATIVE-BG08@6'

12/6/2024 3:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory E4L0258-22 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B4L0907	12/09/2024	12/11/2024
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	12/10/2024	12/12/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.03		pH Units	1	B4L1023	12/10/2024	12/11/2024
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SAR by 20B Saturated Paste

SAR	ND	0.0100	SAR	1	B4L1014	12/10/2024	12/12/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.100	0.00500	mmhos/cm	1	B4L1023	12/10/2024	12/11/2024
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Table 915 metals by EPA 6020B

Arsenic	1.31	0.271	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Barium	36.7	9.35	"	"	"	"	"
Cadmium	ND	0.0935	"	"	"	"	"

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X Wellhead

NATIVE-BG08@6'

12/6/2024 3:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0258-22 (Soil)

Table 915 metals by EPA 6020B

Copper	ND	9.35	mg/kg	10	B4L0650	12/06/2024	12/07/2024
Lead	3.69	0.935	"	"	"	"	"
Nickel	2.95	0.935	"	"	"	"	"
Selenium	ND	0.243	"	"	"	"	"
Silver	ND	0.0935	"	"	"	"	"
Zinc	ND	34.6	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.151	0.376	mg/kg dry	1	2727312	01/03/2025	01/13/2025	HU
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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X
Wellhead

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
Batch B4L0646 - EPA 5030 (soil)										
Blank (B4L0646-BLK1)					Prepared: 12/06/2024 Analyzed: 12/06/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	101		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	101		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	102		70-130			

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Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X
Wellhead

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
Batch B4L0646 - EPA 5030 (soil)										
LCS (B4L0646-BS1)					Prepared: 12/06/2024 Analyzed: 12/06/2024					
1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100		103	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Benzene	0.0968	0.00200	"	0.100		96.8	70-130			
Ethylbenzene	0.108	0.00200	"	0.100		108	70-130			
Naphthalene	0.0951	0.00380	"	0.100		95.1	70-130			
Toluene	0.105	0.00200	"	0.100		105	70-130			
o-Xylene	0.104	0.00200	"	0.100		104	70-130			
m,p-Xylene	0.210	0.00400	"	0.200		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X
Wellhead

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
Batch B4L0646 - EPA 5030 (soil)										
Matrix Spike (B4L0646-MS1)		Source: E4L0258-01			Prepared: 12/06/2024 Analyzed: 12/06/2024					
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130			
1,3,5-Trimethylbenzene	0.0990	0.00200	"	0.100	ND	99.0	70-130			
Benzene	0.0956	0.00200	"	0.100	ND	95.6	70-130			
Ethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130			
Naphthalene	0.0898	0.00380	"	0.100	0.00328	86.6	70-130			
Toluene	0.103	0.00200	"	0.100	ND	103	70-130			
o-Xylene	0.100	0.00200	"	0.100	ND	100	70-130			
m,p-Xylene	0.203	0.00400	"	0.200	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X
Wellhead

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
Batch B4L0646 - EPA 5030 (soil)										
Matrix Spike Dup (B4L0646-MSD1)		Source: E4L0258-01			Prepared: 12/06/2024 Analyzed: 12/06/2024					
1,2,4-Trimethylbenzene	0.0970	0.00200	mg/kg	0.100	ND	97.0	70-130	3.56	20	
1,3,5-Trimethylbenzene	0.0970	0.00200	"	0.100	ND	97.0	70-130	2.02	20	
Benzene	0.0907	0.00200	"	0.100	ND	90.7	70-130	5.28	20	
Ethylbenzene	0.100	0.00200	"	0.100	ND	100	70-130	2.67	20	
Naphthalene	0.0877	0.00380	"	0.100	0.00328	84.5	70-130	2.37	20	
Toluene	0.0974	0.00200	"	0.100	ND	97.4	70-130	5.26	20	
o-Xylene	0.0981	0.00200	"	0.100	ND	98.1	70-130	2.38	20	
m,p-Xylene	0.197	0.00400	"	0.200	ND	98.5	70-130	2.93	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X
Wellhead

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
Batch B4L0648 - EPA 3550B										
Blank (B4L0648-BLK1)					Prepared: 12/06/2024 Analyzed: 12/07/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	20		"	24.9		78.7	50-150			

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X
Wellhead

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
Batch B4L0648 - EPA 3550B										
LCS (B4L0648-BS1)					Prepared: 12/06/2024 Analyzed: 12/07/2024					
Diesel (C10-C28)	902	50.0	mg/kg	1000		90.2	70-130			
Residual Range Organics (C28-C40)	924	200	"	1000		92.4	70-130			
Surrogate: o-Terphenyl	47		"	49.8		94.0	50-150			

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X
Wellhead

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 B4L0648 - EPA 3550B

Matrix Spike (B4L0648-MS1)		Source: E4L0260-02			Prepared: 12/06/2024 Analyzed: 12/07/2024					
Diesel (C10-C28)	931	50.0	mg/kg	1000	ND	93.1	70-130			
Residual Range Organics (C28-C40)	962	200	"	1000	ND	96.2	70-130			
Surrogate: o-Terphenyl	46		"	49.8		91.8	50-150			

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Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X
Wellhead

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 B4L0648 - EPA 3550B

Matrix Spike Dup (B4L0648-MSD1)		Source: E4L0260-02			Prepared: 12/06/2024 Analyzed: 12/07/2024					
Diesel (C10-C28)	926	50.0	mg/kg	1000	ND	92.6	70-130	0.492	35	
Residual Range Organics (C28-C40)	963	200	"	1000	ND	96.3	70-130	0.110	35	
Surrogate: o-Terphenyl	46		"	49.8		91.5	50-150			

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Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L0650 - EPA 3050B

Blank (B4L0650-BLK1)

Prepared: 12/06/2024 Analyzed: 12/07/2024

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

LCS (B4L0650-BS1)

Prepared: 12/06/2024 Analyzed: 12/07/2024

Arsenic	5.78	0.290	mg/kg	5.00	116	80-120
Barium	585	10.0	"	500	117	80-120
Cadmium	5.88	0.100	"	5.00	118	80-120
Copper	56.5	10.0	"	50.0	113	80-120
Lead	5.71	1.00	"	5.00	114	80-120
Nickel	6.00	1.00	"	5.00	120	80-120
Selenium	5.72	0.260	"	5.00	114	80-120
Silver	6.02	0.100	"	5.00	120	80-120
Zinc	57.5	37.0	"	50.0	115	80-120

Matrix Spike (B4L0650-MS1)

Source: E4L0258-01

Prepared: 12/06/2024 Analyzed: 12/07/2024

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L0650 - EPA 3050B

Matrix Spike (B4L0650-MS1)		Source: E4L0258-01			Prepared: 12/06/2024 Analyzed: 12/07/2024					
Arsenic	5.86	0.246	mg/kg	4.24	1.83	95.0	75-125			
Barium	577	8.48	"	424	160	98.3	75-125			
Cadmium	4.69	0.0848	"	4.24	0.109	108	75-125			
Copper	48.0	8.48	"	42.4	4.21	103	75-125			
Lead	15.5	0.848	"	4.24	17.0	NR	75-125			QM-07
Nickel	8.97	0.848	"	4.24	4.37	109	75-125			
Selenium	4.38	0.220	"	4.24	0.0828	101	75-125			
Silver	4.74	0.0848	"	4.24	0.0276	111	75-125			
Zinc	60.8	31.4	"	42.4	19.9	96.4	75-125			

Matrix Spike Dup (B4L0650-MSD1)		Source: E4L0258-01			Prepared: 12/06/2024 Analyzed: 12/07/2024					
Arsenic	6.60	0.287	mg/kg	4.95	1.83	96.4	75-125	12.0	20	
Barium	664	9.91	"	495	160	102	75-125	14.0	20	
Cadmium	5.25	0.0991	"	4.95	0.109	104	75-125	11.2	20	
Copper	53.9	9.91	"	49.5	4.21	100	75-125	11.6	20	
Lead	22.5	0.991	"	4.95	17.0	110	75-125	36.9	20	QM-07, QR-DUP
Nickel	9.04	0.991	"	4.95	4.37	94.4	75-125	0.807	20	
Selenium	5.21	0.258	"	4.95	0.0828	103	75-125	17.3	20	
Silver	5.40	0.0991	"	4.95	0.0276	108	75-125	12.9	20	
Zinc	67.0	36.7	"	49.5	19.9	95.0	75-125	9.73	20	

Batch B4L1621 - EPA 3050B

Blank (B4L1621-BLK1)		Prepared: 12/16/2024 Analyzed: 12/18/2024								
Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L1621 - EPA 3050B

Blank (B4L1621-BLK1)

Prepared: 12/16/2024 Analyzed: 12/18/2024

Copper	ND	10.0	mg/kg
Lead	ND	1.00	"
Nickel	ND	1.00	"
Selenium	ND	0.260	"
Silver	ND	0.100	"
Zinc	ND	37.0	"

LCS (B4L1621-BS1)

Prepared: 12/16/2024 Analyzed: 12/18/2024

Arsenic	5.56	0.290	mg/kg	5.00	111	80-120
Barium	548	10.0	"	500	110	80-120
Cadmium	5.30	0.100	"	5.00	106	80-120
Copper	55.3	10.0	"	50.0	111	80-120
Lead	5.56	1.00	"	5.00	111	80-120
Nickel	5.54	1.00	"	5.00	111	80-120
Selenium	5.39	0.260	"	5.00	108	80-120
Silver	5.68	0.100	"	5.00	114	80-120
Zinc	55.1	37.0	"	50.0	110	80-120

Matrix Spike (B4L1621-MS1)

Source: E4L0258-02

Prepared: 12/16/2024 Analyzed: 12/18/2024

Arsenic	6.32	0.250	mg/kg	4.31	1.72	107	75-125
Barium	550	8.62	"	431	115	101	75-125
Cadmium	5.12	0.0862	"	4.31	0.112	116	75-125
Copper	49.4	8.62	"	43.1	4.09	105	75-125
Lead	13.6	0.862	"	4.31	14.2	NR	75-125
Nickel	8.40	0.862	"	4.31	4.13	99.0	75-125
Selenium	4.62	0.224	"	4.31	0.0920	105	75-125
Silver	5.34	0.0862	"	4.31	0.0222	123	75-125

QM-07

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L1621 - EPA 3050B										
Matrix Spike (B4L1621-MS1)		Source: E4L0258-02			Prepared: 12/16/2024 Analyzed: 12/18/2024					
Zinc	64.8	31.9	mg/kg	43.1	19.1	106	75-125			
Matrix Spike Dup (B4L1621-MSD1)		Source: E4L0258-02			Prepared: 12/16/2024 Analyzed: 12/18/2024					
Arsenic	6.59	0.262	mg/kg	4.51	1.72	108	75-125	4.27	20	QM-07, QR-DUP
Barium	609	9.02	"	451	115	110	75-125	10.2	20	
Cadmium	5.49	0.0902	"	4.51	0.112	119	75-125	6.88	20	
Copper	54.5	9.02	"	45.1	4.09	112	75-125	9.93	20	
Lead	22.9	0.902	"	4.51	14.2	191	75-125	51.1	20	
Nickel	9.35	0.902	"	4.51	4.13	116	75-125	10.7	20	
Selenium	4.92	0.235	"	4.51	0.0920	107	75-125	6.22	20	
Silver	5.56	0.0902	"	4.51	0.0222	123	75-125	4.03	20	
Zinc	68.3	33.4	"	45.1	19.1	109	75-125	5.28	20	

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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 B4L0906 - DTPA Sorbitol Preparation

Blank (B4L0906-BLK1)

Prepared: 12/09/2024 Analyzed: 12/11/2024

Boron ND 0.100 mg/L

Duplicate (B4L0906-DUP1)

Source: E4L0257-07

Prepared: 12/09/2024 Analyzed: 12/11/2024

Boron 0.173 0.101 mg/L 0.164 5.07 50

Batch B4L0907 - DTPA Sorbitol Preparation

Blank (B4L0907-BLK1)

Prepared: 12/09/2024 Analyzed: 12/11/2024

Boron ND 0.100 mg/L

Duplicate (B4L0907-DUP1)

Source: E4L0216-01

Prepared: 12/09/2024 Analyzed: 12/11/2024

Boron 2.25 0.0992 mg/L 2.13 5.22 50

Batch B4L1013 - Saturated Paste Metals

Blank (B4L1013-BLK1)

Prepared: 12/10/2024 Analyzed: 12/12/2024

Calcium PPM ND 10.0 mg/L

SAR ND 0.0100 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B4L1013-DUP1)

Source: E4L0237-01

Prepared: 12/10/2024 Analyzed: 12/12/2024

Calcium PPM 44.4 10.0 mg/L 73.2 48.9 50

SAR ND 0.0100 SAR 11.3 200

Magnesium PPM 22.0 10.0 mg/L 36.3 48.7 50

Sodium PPM 360 10.0 " 472 27.0 50

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Classical Chemistry Parameters - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L1014 - Saturated Paste Metals										
Blank (B4L1014-BLK1)					Prepared: 12/10/2024 Analyzed: 12/12/2024					
SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							
Duplicate (B4L1014-DUP1)					Source: E4L0258-16		Prepared: 12/10/2024 Analyzed: 12/12/2024			
SAR	ND	0.0100	SAR		0.131				200	
Calcium PPM	2.22	10.0	mg/L		0.750			99.0	50	QR-DUP
Magnesium PPM	1.38	10.0	"		0.820			50.9	50	QR-DUP
Sodium PPM	0.700	10.0	"		0.690			1.44	50	

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Saturated Paste - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L1022 - Saturated Paste pH/EC										
Blank (B4L1022-BLK1)					Prepared: 12/10/2024 Analyzed: 12/11/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4L1022-DUP1)					Source: E4L0237-01 Prepared: 12/10/2024 Analyzed: 12/11/2024					
pH	8.10		pH Units		8.06			0.495	25	
Specific Conductance (EC)	2.33	0.00500	mmhos/cm		2.95			23.8	25	
Batch B4L1023 - Saturated Paste pH/EC										
Blank (B4L1023-BLK1)					Prepared: 12/10/2024 Analyzed: 12/11/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4L1023-DUP1)					Source: E4L0258-16 Prepared: 12/10/2024 Analyzed: 12/11/2024					
Specific Conductance (EC)	0.0449	0.00500	mmhos/cm		0.0391			13.8	25	
pH	7.18		pH Units		7.25			0.970	25	
Batch B4L1346 - Saturated Paste pH/EC										
Duplicate (B4L1346-DUP1)					Source: E4L0203-06 Prepared: 12/13/2024 Analyzed: 12/16/2024					
pH	8.24		pH Units		8.24			0.00	25	

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2721434 - SW846 3541

BLANK (1205950904-BLK)

Prepared: 12/16/2024 Analyzed: 12/16/2024

Chrysene	ND	0.00332	mg/kg				-			U
Pyrene	ND	0.00332	"				-			U
Naphthalene	ND	0.00332	"				-			U
Indeno(1,2,3-cd)pyrene	ND	0.00332	"				-			U
Fluorene	ND	0.00332	"				-			U
Dibenzo(a,h)anthracene	ND	0.00332	"				-			U
Benzo(k)fluoranthene	ND	0.00332	"				-			U
Fluoranthene	ND	0.00332	"				-			U
2-Methylnaphthalene	ND	0.00332	"				-			U
Benzo(b)fluoranthene	ND	0.00332	"				-			U
Acenaphthene	ND	0.00332	"				-			U
Anthracene	ND	0.00332	"				-			U
Benzo(a)anthracene	ND	0.00332	"				-			U
Benzo(a)pyrene	ND	0.00332	"				-			U
1-Methylnaphthalene	ND	0.00332	"				-			U

Surrogate: 5-alpha-Androstane

0.133

"

0.166

80

22-135

LCS (1205950905-BKS)

Prepared: 12/16/2024 Analyzed: 12/16/2024

Chrysene	0.307	0.00332	mg/kg	0.332		92	42-117
1-Methylnaphthalene	0.286	0.00332	"	0.332		86	39-109
Pyrene	0.300	0.00332	"	0.332		90	38-117
Naphthalene	0.277	0.00332	"	0.332		83	38-109
Indeno(1,2,3-cd)pyrene	0.314	0.00332	"	0.332		94	38-133
Fluorene	0.292	0.00332	"	0.332		88	37-115
Fluoranthene	0.307	0.00332	"	0.332		92	39-119
Dibenzo(a,h)anthracene	0.319	0.00332	"	0.332		96	38-132
Benzo(k)fluoranthene	0.282	0.00332	"	0.332		85	40-122

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2721434 - SW846 3541

LCS (1205950905-BKS)

Prepared: 12/16/2024 Analyzed: 12/16/2024

Benzo(b)fluoranthene	0.298	0.00332	mg/kg	0.332		89	39-123			
Benzo(a)pyrene	0.314	0.00332	"	0.332		94	39-127			
Benzo(a)anthracene	0.313	0.00332	"	0.332		94	42-120			
Anthracene	0.305	0.00332	"	0.332		92	41-117			
Acenaphthene	0.293	0.00332	"	0.332		88	41-112			
2-Methylnaphthalene	0.302	0.00332	"	0.332		91	39-110			
Surrogate: 5-alpha-Androstane	0.160		"	0.166		96	22-135			

LCSD (1205950906-BKSD)

Prepared: 12/16/2024 Analyzed: 12/16/2024

Benzo(k)fluoranthene	0.275	0.00332	mg/kg	0.332		83	40-122	3	30	
Fluorene	0.258	0.00332	"	0.332		78	37-115	12	30	
Indeno(1,2,3-cd)pyrene	0.286	0.00332	"	0.332		86	38-133	9	30	
Pyrene	0.271	0.00332	"	0.332		82	38-117	10	30	
Fluoranthene	0.279	0.00332	"	0.332		84	39-119	9	30	
Dibenzo(a,h)anthracene	0.286	0.00332	"	0.332		86	38-132	11	30	
Chrysene	0.284	0.00332	"	0.332		86	42-117	8	30	
1-Methylnaphthalene	0.244	0.00332	"	0.332		74	39-109	16	30	
Naphthalene	0.234	0.00332	"	0.332		71	38-109	17	30	
2-Methylnaphthalene	0.257	0.00332	"	0.332		77	39-110	16	30	
Acenaphthene	0.257	0.00332	"	0.332		77	41-112	13	30	
Anthracene	0.274	0.00332	"	0.332		83	41-117	11	30	
Benzo(a)anthracene	0.287	0.00332	"	0.332		87	42-120	9	30	
Benzo(a)pyrene	0.290	0.00332	"	0.332		87	39-127	8	30	
Benzo(b)fluoranthene	0.282	0.00332	"	0.332		85	39-123	5	30	
Surrogate: 5-alpha-Androstane	0.148		"	0.166		89	22-135			

MS (1205950907 S)

Source: 699598003

Prepared: 12/16/2024 Analyzed: 12/16/2024

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2721434 - SW846 3541

MS (1205950907 S)		Source: 699598003			Prepared: 12/16/2024 Analyzed: 12/16/2024					
Benzo(a)pyrene	0.118	0.00402	mg/kg dry	0.402	<0.00133	29	16-133			
Chrysene	0.109	0.00402	"	0.402	<0.00133	27	19-129			
Pyrene	0.109	0.00402	"	0.402	<0.00133	27	12-139			
Naphthalene	0.0913	0.00402	"	0.402	<0.00133	23	16-126			
Indeno(1,2,3-cd)pyrene	0.109	0.00402	"	0.402	<0.00133	27	13-134			
Fluorene	0.106	0.00402	"	0.402	<0.00133	26	16-134			
Fluoranthene	0.111	0.00402	"	0.402	<0.00133	28	14-136			
Dibenzo(a,h)anthracene	0.111	0.00402	"	0.402	<0.00133	28	11-134			
2-Methylnaphthalene	0.102	0.00402	"	0.402	<0.00133	25	15-132			
Benzo(k)fluoranthene	0.103	0.00402	"	0.402	<0.00133	25	18-138			
1-Methylnaphthalene	0.0981	0.00402	"	0.402	<0.00133	24	15-129			
Acenaphthene	0.0993	0.00402	"	0.402	<0.00133	25	17-129			
Anthracene	0.105	0.00402	"	0.402	<0.00133	26	18-136			
Benzo(a)anthracene	0.111	0.00402	"	0.402	<0.00133	28	20-132			
Benzo(b)fluoranthene	0.105	0.00402	"	0.402	<0.00133	26	14-136			

Surrogate: 5-alpha-Androstane 0.0519 " 0.201 0.0725 26 22-135

MSD (1205950908 SD)		Source: 699598003			Prepared: 12/16/2024 Analyzed: 12/16/2024					
Chrysene	0.122	0.00402	mg/kg dry	0.402	<0.00133	30	19-129	12	30	
2-Methylnaphthalene	0.111	0.00402	"	0.402	<0.00133	28	15-132	8	30	
Indeno(1,2,3-cd)pyrene	0.118	0.00402	"	0.402	<0.00133	29	13-134	8	30	
Pyrene	0.123	0.00402	"	0.402	<0.00133	31	12-139	12	30	
Fluorene	0.120	0.00402	"	0.402	<0.00133	30	16-134	12	30	
Fluoranthene	0.126	0.00402	"	0.402	<0.00133	31	14-136	12	30	
Dibenzo(a,h)anthracene	0.120	0.00402	"	0.402	<0.00133	30	11-134	8	30	
Naphthalene	0.0973	0.00402	"	0.402	<0.00133	24	16-126	6	30	
Benzo(k)fluoranthene	0.114	0.00402	"	0.402	<0.00133	28	18-138	10	30	

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Ensolum
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417890
Project: KMG - Sarchet 41-23 & UPRR 42-23 3X
Wellhead

PAH by 8270E SIM - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2721434 - SW846 3541										
MSD (1205950908 SD)		Source: 699598003			Prepared: 12/16/2024 Analyzed: 12/16/2024					
Benzo(b)fluoranthene	0.118	0.00402	mg/kg dry	0.402	<0.00133	29	14-136	12	30	
Benzo(a)pyrene	0.132	0.00402	"	0.402	<0.00133	33	16-133	11	30	
Benzo(a)anthracene	0.125	0.00402	"	0.402	<0.00133	31	20-132	12	30	
Anthracene	0.122	0.00402	"	0.402	<0.00133	30	18-136	14	30	
1-Methylnaphthalene	0.107	0.00402	"	0.402	<0.00133	27	15-129	9	30	
Acenaphthene	0.111	0.00402	"	0.402	<0.00133	28	17-129	11	30	
Surrogate: 5-alpha-Androstane	0.0635		"	0.201	0.0725	32	22-135			

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Wellhead

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2727312 - SW846 3060A										
BLANK (1205963412-BLK)					Prepared: 01/03/2025 Analyzed: 01/13/2025					
Hexavalent Chromium	ND	0.325	mg/kg				-			U
LCS (1205963413-BKS)					Prepared: 01/03/2025 Analyzed: 01/13/2025					
Hexavalent Chromium	3.45	0.348	mg/kg	3.48		99.2	80-120			
DUP (1205963414 D)					Source: E4L0258-18 Prepared: 01/03/2025 Analyzed: 01/13/2025					
Hexavalent Chromium	ND	0.402	mg/kg dry		<0.161		0-50	N/A	50	HU
MS (1205963415 S)					Source: E4L0258-18 Prepared: 01/03/2025 Analyzed: 01/13/2025					
Hexavalent Chromium	1.62	0.388	mg/kg dry	3.88	<0.155	40.8	75-125			H
DUP (1205963416 D)					Source: E4L0258-19 Prepared: 01/03/2025 Analyzed: 01/13/2025					
Hexavalent Chromium	ND	0.348	mg/kg dry		<0.139		0-50	N/A	50	HU
MS (1205963417 S)					Source: E4L0258-19 Prepared: 01/03/2025 Analyzed: 01/13/2025					
Hexavalent Chromium	2.50	0.316	mg/kg dry	3.16	<0.126	78.6	75-125			H
ILCS (1205963418-ILCS)					Prepared: 01/03/2025 Analyzed: 01/13/2025					
Hexavalent Chromium	7.52	0.360	mg/kg	7.25		104	80-120			

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Wellhead

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2727307 - SW846 3060A										
BLANK (1205963395-BLK)					Prepared: 01/03/2025 Analyzed: 01/10/2025					
Hexavalent Chromium	ND	0.313	mg/kg				-			U
LCS (1205963396-BKS)					Prepared: 01/03/2025 Analyzed: 01/10/2025					
Hexavalent Chromium	3.31	0.325	mg/kg	3.25		102	80-120			
DUP (1205963397 D)					Source: E4L0258-01 Prepared: 01/03/2025 Analyzed: 01/10/2025					
Hexavalent Chromium	ND	0.431	mg/kg dry		<0.173		0-50	N/A	50	U
MS (1205963398 S)					Source: E4L0258-01 Prepared: 01/03/2025 Analyzed: 01/10/2025					
Hexavalent Chromium	3.87	0.412	mg/kg dry	4.12	<0.165	93	75-125			
DUP (1205963399 D)					Source: E4L0258-03 Prepared: 01/03/2025 Analyzed: 01/10/2025					
Hexavalent Chromium	ND	0.337	mg/kg dry		<0.135		0-50	N/A	50	U
MS (1205963400 S)					Source: E4L0258-03 Prepared: 01/03/2025 Analyzed: 01/10/2025					
Hexavalent Chromium	3.32	0.380	mg/kg dry	3.80	<0.152	87.3	75-125			
ILCS (1205963401-ILCS)					Prepared: 01/03/2025 Analyzed: 01/10/2025					
Hexavalent Chromium	5.58	0.261	mg/kg	5.31		105	80-120			

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Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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

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

J Greater than the detection limit but less than the reporting limit

HU Holding time exceeded. Non detect.

H Holding time exceeded

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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