



January 30, 2024

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Fehr 26-32

Project Number - [none]

Attached are your analytical results for KMG - Fehr 26-32 received by Origins Laboratory, Inc. January 11, 2024. This project is associated with Origins project number Y401278-01.

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, Inc.
303.433.1322
o-squad@oelabinc.com



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

Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Fehr 26-32

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-BG03@4'	Y401278-01	Soil	January 11, 2024 11:40	01/11/2024 16:32
WH-BG03@6'	Y401278-02	Soil	January 11, 2024 11:45	01/11/2024 16:32
WH-BG03@8'	Y401278-03	Soil	January 11, 2024 11:50	01/11/2024 16:32
WH-BG04@4'	Y401278-04	Soil	January 11, 2024 12:50	01/11/2024 16:32
WH-BG04@6'	Y401278-05	Soil	January 11, 2024 13:00	01/11/2024 16:32
WH-BG04@8'	Y401278-06	Soil	January 11, 2024 13:10	01/11/2024 16:32

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 26-32



4401278
 Initial

www.originslaboratory.com

page 1 of 1

Client: Eagle Environmental (BMT)
 Address: 8000 W 44th Ave
 Wheat Ridge, CO 80033
 Telephone Number: 303-433-0474
 Email Address: dcoloccia@eagle-enviro.com

Project Manager: D. Coloccia
 Project Name: Fehr 26-32
 Project Number: -
 Samples Collected By: CB

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #		
WH-BG0324'	1/11/24	1140	2	X				X				HOLD
WH-BG0326'		1145										
WH-BG0328'		1150										
WH-BG0424'		1250										HOLD
WH-BG0426'		1300										
WH-BG0428'		1310										
<p>PH Pba added to samples on hold PPH added to all other samples per Aries email on 1/25/24</p>												
Relinquished By: Chris B. Bynon	Date: 1/11/24	Time: 1032	Received By: [Signature]	Date: 1/11/24	Time: 1032	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"/>						

Temp Received: 4 Date Results Needed

Origins Laboratory, Inc.

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 26-32

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 44001278

Client: Eagle

Client Project ID: Fehr 26-32

Checklist Completed by: TJVEHS

Shipped Via: TWD

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

Date/time completed: 1/11/14

Airbill #: N/A

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

Cooler Number/Temperature: 1M °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: 1004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 1/11/14

Origins Laboratory, Inc.

[Signature]

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 26-32

WH-BG03@4'

1/11/2024 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401278-01 (Soil)

pH in Soil by 9045D

pH	8.26		pH Units	1	B4A2415	EAL	01/24/2024	01/25/2024	
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Table 915 metals by EPA 6020B

Barium	50.0	8.52	mg/kg	10	B4A2319	JAH	01/23/2024	01/25/2024	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 26-32

WH-BG03@6'

1/11/2024 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y401278-02 (Soil)**

pH in Soil by 9045D

pH	8.26		pH Units	1	B4A2415	EAL	01/24/2024	01/25/2024	
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Table 915 metals by EPA 6020B

Barium	48.3	9.43	mg/kg	10	B4A1143	HJD	01/11/2024	01/15/2024	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 26-32

WH-BG03@8'

1/11/2024 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401278-03 (Soil)

pH in Soil by 9045D

pH	8.32		pH Units	1	B4A2415	EAL	01/24/2024	01/25/2024	
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Table 915 metals by EPA 6020B

Barium	54.1	8.94	mg/kg	10	B4A1143	HJD	01/11/2024	01/15/2024	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 26-32

WH-BG04@4'

1/11/2024 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401278-04 (Soil)

pH in Soil by 9045D

pH	8.44		pH Units	1	B4A2415	EAL	01/24/2024	01/25/2024	
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Table 915 metals by EPA 6020B

Barium	50.8	8.75	mg/kg	10	B4A2319	JAH	01/23/2024	01/25/2024	
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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 26-32

WH-BG04@6'

1/11/2024 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401278-05 (Soil)

pH in Soil by 9045D

pH	8.42		pH Units	1	B4A2415	EAL	01/24/2024	01/25/2024	
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Table 915 metals by EPA 6020B

Barium	70.5	9.14	mg/kg	10	B4A1143	HJD	01/11/2024	01/15/2024	
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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 26-32

WH-BG04@8'
1/11/2024 1:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401278-06 (Soil)

pH in Soil by 9045D

pH	8.37		pH Units	1	B4A2415	EAL	01/24/2024	01/25/2024	
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Table 915 metals by EPA 6020B

Barium	54.6	9.25	mg/kg	10	B4A1143	HJD	01/11/2024	01/15/2024	
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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 26-32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A1143 - EPA 3050B

Blank (B4A1143-BLK1)

Prepared: 01/11/2024 Analyzed: 01/15/2024

Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							
Cadmium	ND	0.0100	"							
Copper	ND	1.00	"							
Lead	ND	0.100	"							
Nickel	ND	0.100	"							
Selenium	ND	0.0100	"							

LCS (B4A1143-BS1)

Prepared: 01/11/2024 Analyzed: 01/15/2024

Arsenic	5.04	0.0100	mg/kg	5.00		101	80-120			
Barium	498	1.00	"	500		99.6	80-120			
Cadmium	5.17	0.0100	"	5.00		103	80-120			
Copper	53.7	1.00	"	50.0		107	80-120			
Lead	5.13	0.100	"	5.00		103	80-120			
Nickel	5.18	0.100	"	5.00		104	80-120			
Selenium	4.18	0.0100	"	5.00		83.7	80-120			

Matrix Spike (B4A1143-MS1)

Source: Y401259-04

Prepared: 01/11/2024 Analyzed: 01/15/2024

Arsenic	6.40	0.0936	mg/kg	4.68	2.79	77.1	75-125			
Barium	525	9.36	"	468	68.2	97.6	75-125			
Cadmium	5.11	0.0936	"	4.68	0.364	101	75-125			
Copper	55.2	9.36	"	46.8	9.48	97.6	75-125			
Lead	9.51	0.936	"	4.68	6.49	64.6	75-125			QM-07
Nickel	11.0	0.936	"	4.68	9.25	37.2	75-125			QM-07
Selenium	4.75	0.0936	"	4.68	0.229	96.6	75-125			

Matrix Spike Dup (B4A1143-MSD1)

Source: Y401259-04

Prepared: 01/11/2024 Analyzed: 01/15/2024

Origins Laboratory, Inc.



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Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 26-32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A1143 - EPA 3050B

Matrix Spike Dup (B4A1143-MSD1)

Source: Y401259-04

Prepared: 01/11/2024 Analyzed: 01/15/2024

Arsenic	7.67	0.0995	mg/kg	4.97	2.79	98.1	75-125	18.0	20	
Barium	565	9.95	"	497	68.2	99.8	75-125	7.29	20	
Cadmium	5.50	0.0995	"	4.97	0.364	103	75-125	7.33	20	
Copper	60.3	9.95	"	49.7	9.48	102	75-125	8.79	20	
Lead	11.4	0.995	"	4.97	6.49	98.1	75-125	17.8	20	
Nickel	11.0	0.995	"	4.97	9.25	35.6	75-125	0.272	20	QM-07
Selenium	5.11	0.0995	"	4.97	0.229	98.1	75-125	7.23	20	

Batch B4A2319 - EPA 3050B

Blank (B4A2319-BLK1)

Prepared: 01/23/2024 Analyzed: 01/25/2024

Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							
Cadmium	ND	0.0100	"							
Copper	ND	1.00	"							
Lead	ND	0.100	"							
Nickel	ND	0.100	"							
Selenium	ND	0.0100	"							
Silver	ND	0.0100	"							
Zinc	ND	1.00	"							

LCS (B4A2319-BS1)

Prepared: 01/23/2024 Analyzed: 01/25/2024

Arsenic	5.33	0.0100	mg/kg	5.00		107	80-120			
Barium	535	1.00	"	500		107	80-120			
Cadmium	5.09	0.0100	"	5.00		102	80-120			
Copper	53.1	1.00	"	50.0		106	80-120			
Lead	5.19	0.100	"	5.00		104	80-120			

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 26-32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A2319 - EPA 3050B

LCS (B4A2319-BS1)

Prepared: 01/23/2024 Analyzed: 01/25/2024

Nickel	5.36	0.100	mg/kg	5.00		107	80-120			
Selenium	4.74	0.0100	"	5.00		94.9	80-120			
Silver	5.82	0.0100	"	5.00		116	80-120			
Zinc	58.3	1.00	"	50.0		117	80-120			

Matrix Spike (B4A2319-MS1)

Source: Y401278-01

Prepared: 01/23/2024 Analyzed: 01/25/2024

Arsenic	6.69	0.0896	mg/kg	4.48	1.97	105	75-125			
Barium	544	8.96	"	448	50.0	110	75-125			
Cadmium	4.59	0.0896	"	4.48	0.103	100	75-125			
Copper	49.4	8.96	"	44.8	5.14	98.9	75-125			
Lead	11.1	0.896	"	4.48	6.31	107	75-125			
Nickel	10.1	0.896	"	4.48	5.39	104	75-125			
Selenium	4.26	0.0896	"	4.48	0.0912	93.2	75-125			
Silver	4.53	0.0896	"	4.48	0.0477	100	75-125			
Zinc	73.5	8.96	"	44.8	26.6	105	75-125			

Matrix Spike Dup (B4A2319-MSD1)

Source: Y401278-01

Prepared: 01/23/2024 Analyzed: 01/25/2024

Arsenic	6.93	0.0910	mg/kg	4.55	1.97	109	75-125	3.55	20	
Barium	550	9.10	"	455	50.0	110	75-125	1.14	20	
Cadmium	4.85	0.0910	"	4.55	0.103	104	75-125	5.39	20	
Copper	49.6	9.10	"	45.5	5.14	97.8	75-125	0.344	20	
Lead	11.2	0.910	"	4.55	6.31	108	75-125	1.10	20	
Nickel	10.3	0.910	"	4.55	5.39	109	75-125	2.61	20	
Selenium	4.37	0.0910	"	4.55	0.0912	94.1	75-125	2.45	20	
Silver	4.62	0.0910	"	4.55	0.0477	101	75-125	1.93	20	
Zinc	77.0	9.10	"	45.5	26.6	111	75-125	4.66	20	

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Fehr 26-32

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A2415 - Saturated Paste pH/EC

Duplicate (B4A2415-DUP1)

Source: Y401261-01

Prepared: 01/24/2024 Analyzed: 01/25/2024

pH	8.28		pH Units		8.29			0.121	25	
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8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Fehr 26-32

Notes and Definitions

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager