



November 01, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Freauff 33-4A

Project Number - [none]

Attached are your analytical results for KMG - Freauff 33-4A received by Origins Laboratory, Inc. October 25, 2023. This project is associated with Origins project number Y310685-01.

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 - Freauff 33-4A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B01@4'	Y310685-01	Soil	October 25, 2023 14:30	10/25/2023 16:20
FL-B03@4'	Y310685-02	Soil	October 25, 2023 14:34	10/25/2023 16:20

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Freauff 33-4A

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



*Initial*  
 BROWN

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page 1 of 1

Client: Eagle Environmental (KMG)  
 Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
 Telephone Number: 303-433-0479  
 Email Address: dcoloccia@eagle-enviro.com

Project Manager: D. Coloccia  
 Project Name: Freauff 33-4A  
 Project Number: -  
 Samples Collected By: CB

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis			Sample Instructions		
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	BTEX		TPH	HCB
FL-B01241	10/25/23	1430	3	X				X			X	X	X	X	
FL-B03241	1	1434	3	X				X			X	X	X	X	

Temp Received: 5.5 Date Results Needed

Relinquished By: Chris Bordin Date: 10/25/23 Time: 1020  
 Received By: [Signature] Date: 10/25/23 Time: 1620  
 Turnaround Time:  Same Day  24 Hr  48 Hr  72 Hr  Standard

Origins Laboratory, Inc.  
*Bynon*

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 Project: KMG - Freauff 33-4A

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 3310085

Client: Eagle

Client Project ID: Freauff 33-4A

Checklist Completed by: TSH/EMS

Shipped Via: HL

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

Date/time completed: 10/25/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 15.5 °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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

10/25/23  
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Freauff 33-4A

**FL-B01@4'**  
**10/25/2023 2:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310685-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.157	0.0997	mg/L	1	B3J2610	KAP	10/26/2023	10/27/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2527	ZZZ	10/25/2023	10/25/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: <i>o</i> -Terphenyl	80.7 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2530	HK	10/25/2023	10/25/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Naphthalene	ND	0.00380	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.0 %	70-130			"	"	"	"	

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FL-B01@4'

10/25/2023 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y310685-01 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	1.53	0.499	meq/L	10	[CALC]	KAP	10/26/2023	10/27/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	0.629	0.435	"	"	"	KAP	"	"

**pH in Soil by 9045D**

pH	8.34		pH Units	1	B3J2622	HJD	10/26/2023	10/27/2023
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**SAR by 20B Saturated Paste**

SAR	0.581	0.0100	SAR	1	B3J2616	KAP	10/26/2023	10/27/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.362	0.00500	mmhos/cm	1	B3J2622	HJD	10/26/2023	10/27/2023
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 Project: KMG - Freauff 33-4A

**FL-B03@4'**

**10/25/2023 2:34:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310685-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.495	0.101	mg/L	1	B3J2610	KAP	10/26/2023	10/27/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2527	ZZZ	10/25/2023	10/25/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: <i>o</i> -Terphenyl	85.5 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2530	HK	10/25/2023	10/25/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Naphthalene	ND	0.00380	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.1 %	70-130			"	"	"	"	

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FL-B03@4'

10/25/2023 2:34:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y310685-02 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	8.24	0.499	meq/L	10	[CALC]	KAP	10/26/2023	10/27/2023	
Magnesium	6.94	0.823	"	"	"	KAP	"	"	
Sodium	7.19	0.435	"	"	"	KAP	"	"	

**pH in Soil by 9045D**

pH	8.31		pH Units	1	B3J2622	HJD	10/26/2023	10/27/2023	
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**SAR by 20B Saturated Paste**

SAR	2.61	0.0100	SAR	1	B3J2616	KAP	10/26/2023	10/27/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	2.02	0.00500	mmhos/cm	1	B3J2622	HJD	10/26/2023	10/27/2023	
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**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3J2527 - EPA 3550B</b>										
<b>Blank (B3J2527-BLK1)</b>										
					Prepared: 10/25/2023 Analyzed: 10/25/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		86.0	50-150			

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**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3J2527 - EPA 3550B</b>										
<b>LCS (B3J2527-BS1)</b>										
					Prepared: 10/25/2023 Analyzed: 10/25/2023					
Diesel (C10-C28)	874	50.0	mg/kg	1000		87.4	70-130			
Residual Range Organics (C28-C40)	953	200	"	1000		95.3	70-130			
Surrogate: o-Terphenyl	42		"	49.8		85.0	50-150			

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**Extractable Petroleum Hydrocarbons by 8015D - 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 B3J2527 - EPA 3550B**

<b>Matrix Spike (B3J2527-MS1)</b>	<b>Source: Y310679-01</b>			<b>Prepared: 10/25/2023 Analyzed: 10/25/2023</b>						
Diesel (C10-C28)	942	50.0	mg/kg	1000	ND	94.2	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130			
Surrogate: o-Terphenyl	45		"	49.8		90.1	50-150			

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**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3J2527 - EPA 3550B</b>										
<b>Matrix Spike Dup (B3J2527-MSD1)</b>					<b>Source: Y310679-01</b>					Prepared: 10/25/2023 Analyzed: 10/25/2023
Diesel (C10-C28)	901	50.0	mg/kg	1000	ND	90.1	70-130	4.41	35	
Residual Range Organics (C28-C40)	986	200	"	1000	ND	98.6	70-130	4.85	35	
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

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**Extractable Petroleum Hydrocarbons by 8015D - 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 B3J2530 - EPA 5030 (soil)**

**Blank (B3J2530-BLK1)**

Prepared: 10/25/2023 Analyzed: 10/25/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	99.6		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.7		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	95.1		70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3J2530 - EPA 5030 (soil)**

**LCS (B3J2530-BS1)**

Prepared: 10/25/2023 Analyzed: 10/25/2023

1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100		108	70-130			
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Benzene	0.110	0.00200	"	0.100		110	70-130			
Ethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Naphthalene	0.109	0.00380	"	0.100		109	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
o-Xylene	0.110	0.00200	"	0.100		110	70-130			
m,p-Xylene	0.219	0.00400	"	0.200		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.7	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3J2530 - EPA 5030 (soil)

Matrix Spike (B3J2530-MS1)	Source: Y310679-01			Prepared: 10/25/2023 Analyzed: 10/25/2023						
1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100	ND	107	70-130			
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130			
Benzene	0.109	0.00200	"	0.100	ND	109	70-130			
Ethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130			
Naphthalene	0.104	0.00380	"	0.100	0.00110	103	70-130			
Toluene	0.102	0.00200	"	0.100	ND	102	70-130			
o-Xylene	0.111	0.00200	"	0.100	ND	111	70-130			
m,p-Xylene	0.212	0.00400	"	0.200	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.1	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3J2530 - EPA 5030 (soil)**

<b>Matrix Spike Dup (B3J2530-MSD1)</b>	<b>Source: Y310679-01</b>			<b>Prepared: 10/25/2023 Analyzed: 10/25/2023</b>						
1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100	ND	107	70-130	0.0750	20	
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130	0.407	20	
Benzene	0.109	0.00200	"	0.100	ND	109	70-130	0.165	20	
Ethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130	1.07	20	
Naphthalene	0.105	0.00380	"	0.100	0.00110	104	70-130	1.66	20	
Toluene	0.102	0.00200	"	0.100	ND	102	70-130	0.176	20	
o-Xylene	0.111	0.00200	"	0.100	ND	111	70-130	0.217	20	
m,p-Xylene	0.211	0.00400	"	0.200	ND	105	70-130	0.775	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.5	70-130			

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Freauff 33-4A

**Volatile Organic Compounds by GC/MS SW846 8260D - 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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**Classical Chemistry Parameters - 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 B3J2610 - DTPA Sorbitol Preparation**

**Blank (B3J2610-BLK1)**

Prepared: 10/26/2023 Analyzed: 10/27/2023

Boron ND 0.100 mg/L

**Duplicate (B3J2610-DUP1)**

Source: Y310679-04

Prepared: 10/26/2023 Analyzed: 10/27/2023

Boron 1.69 0.101 mg/L 1.67 0.807 50

**Batch B3J2616 - Saturated Paste Metals**

**Blank (B3J2616-BLK1)**

Prepared: 10/26/2023 Analyzed: 10/27/2023

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 (B3J2616-DUP1)**

Source: Y310680-06

Prepared: 10/26/2023 Analyzed: 10/27/2023

Calcium PPM 364 10.0 mg/L 362 0.573 50

SAR ND 0.0100 SAR 2.47 200

Magnesium PPM 354 10.0 mg/L 353 0.141 50

Sodium PPM 283 10.0 " 276 2.43 50

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Freauff 33-4A

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3J2622 - Saturated Paste pH/EC</b>										
<b>Blank (B3J2622-BLK1)</b>					Prepared: 10/26/2023 Analyzed: 10/27/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B3J2622-DUP1)</b>		<b>Source: Y310680-06</b>			Prepared: 10/26/2023 Analyzed: 10/27/2023					
Specific Conductance (EC)	4.30	0.00500	mmhos/cm		4.24			1.26	25	
pH	8.12		pH Units		8.16			0.491	25	

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Freauff 33-4A

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**Notes and Definitions**

U Sample is Non-Detect.

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.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

---

Jordan A. Bynon, Project Manager

December 29, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Freauff 33-4A

Project Number - [none]

Attached are your analytical results for KMG - Freauff 33-4A received by Origins Laboratory, Inc. December 15, 2023. This project is associated with Origins project number Y312490-01.

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



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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Freauff 33-4A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B19@4'	Y312490-01	Soil	December 15, 2023 10:50	12/15/2023 12:05

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 - Freauff 33-4A

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 43124910

Client: Eagle

Client Project ID: Freauff 33-4A

Checklist Completed by: JWH

Shipped Via: TWD

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

Date/time completed: 12/15/23

Airbill #: N/A

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

Cooler Number/Temperature: 1, 5 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 7004

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

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

Reviewed by (Project Manager) JWH

Date/Time Reviewed 12/15/23

Origins Laboratory, Inc.

*J. Bynon*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Freauff 33-4A

**FL-B19@4'**  
**12/15/2023 10:50:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312490-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	2.27	0.101	mg/L	1	B3L1804	KAP	12/18/2023	12/19/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L1501	ZZZ	12/15/2023	12/15/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	96.6 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L1530	JSM	12/15/2023	12/15/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.6 %	70-130			"	"	"	"	

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 - Freauff 33-4A

**FL-B19@4'**

**12/15/2023 10:50:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312490-01 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	9.67	0.499	meq/L	10	[CALC]	KAP	12/16/2023	12/18/2023
Magnesium	17.6	0.823	"	"	"	KAP	"	"
Sodium	46.0	0.435	"	"	"	KAP	"	"

**pH in Soil by 9045D**

pH	8.32		pH Units	1	B3L1611	ACN	12/16/2023	12/17/2023
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**SAR by 20B Saturated Paste**

SAR	12.4	0.0100	SAR	1	B3L1614	KAP	12/16/2023	12/18/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	5.86	0.00500	mmhos/cm	1	B3L1611	ACN	12/16/2023	12/17/2023
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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Freauff 33-4A

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3L1501 - EPA 3550B</b>										
<b>Blank (B3L1501-BLK1)</b>										
					Prepared: 12/15/2023 Analyzed: 12/15/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		88.2	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Freauff 33-4A

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3L1501 - EPA 3550B</b>										
<b>LCS (B3L1501-BS1)</b>					Prepared: 12/15/2023 Analyzed: 12/15/2023					
Diesel (C10-C28)	879	50.0	mg/kg	1000		87.9	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000		104	70-130			
Surrogate: o-Terphenyl	44		"	49.8		87.5	50-150			

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Freauff 33-4A

**Extractable Petroleum Hydrocarbons by 8015D - 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 B3L1501 - EPA 3550B**

<b>Matrix Spike (B3L1501-MS1)</b>	<b>Source: Y312490-01</b>			<b>Prepared: 12/15/2023 Analyzed: 12/15/2023</b>						
Diesel (C10-C28)	904	50.0	mg/kg	1000	ND	90.4	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130			
Surrogate: o-Terphenyl	43		"	49.8		86.5	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Freauff 33-4A

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3L1501 - EPA 3550B</b>										
<b>Matrix Spike Dup (B3L1501-MSD1)</b>					<b>Source: Y312490-01</b>					Prepared: 12/15/2023 Analyzed: 12/15/2023
Diesel (C10-C28)	984	50.0	mg/kg	1000	ND	98.4	70-130	8.50	35	
Residual Range Organics (C28-C40)	1160	200	"	1000	ND	116	70-130	9.73	35	
Surrogate: o-Terphenyl	48		"	49.8		95.7	50-150			

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Freauff 33-4A

**Extractable Petroleum Hydrocarbons by 8015D - 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 B3L1530 - EPA 5030 (soil)**

**Blank (B3L1530-BLK1)**

Prepared: 12/15/2023 Analyzed: 12/15/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	102		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.9		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	95.0		70-130			

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 - Freauff 33-4A

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3L1530 - EPA 5030 (soil)**

**LCS (B3L1530-BS1)**

Prepared: 12/15/2023 Analyzed: 12/15/2023

1,2,4-Trimethylbenzene	0.0997	0.00200	mg/kg	0.100		99.7	70-130			
1,3,5-Trimethylbenzene	0.0985	0.00200	"	0.100		98.5	70-130			
Benzene	0.108	0.00200	"	0.100		108	70-130			
Ethylbenzene	0.0981	0.00200	"	0.100		98.1	70-130			
Naphthalene	0.114	0.00380	"	0.100		114	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
o-Xylene	0.100	0.00200	"	0.100		100	70-130			
m,p-Xylene	0.207	0.00400	"	0.200		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.0	70-130			

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 - Freauff 33-4A

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3L1530 - EPA 5030 (soil)**

<b>Matrix Spike (B3L1530-MS1)</b>	<b>Source: Y312490-01</b>			<b>Prepared: 12/15/2023 Analyzed: 12/15/2023</b>						
1,2,4-Trimethylbenzene	0.0842	0.00200	mg/kg	0.100	ND	84.2	70-130			
1,3,5-Trimethylbenzene	0.0816	0.00200	"	0.100	ND	81.6	70-130			
Benzene	0.0795	0.00200	"	0.100	ND	79.5	70-130			
Ethylbenzene	0.0779	0.00200	"	0.100	ND	77.9	70-130			
Naphthalene	0.107	0.00380	"	0.100	ND	107	70-130			
Toluene	0.0785	0.00200	"	0.100	ND	78.5	70-130			
o-Xylene	0.0836	0.00200	"	0.100	ND	83.6	70-130			
m,p-Xylene	0.167	0.00400	"	0.200	ND	83.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.5	70-130			

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 - Freauff 33-4A

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3L1530 - EPA 5030 (soil)

Matrix Spike Dup (B3L1530-MSD1)	Source: Y312490-01	Prepared: 12/15/2023	Analyzed: 12/18/2023							
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130	21.7	20	QR-02
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130	22.6	20	QR-02
Benzene	0.117	0.00200	"	0.100	ND	117	70-130	38.5	20	QR-02
Ethylbenzene	0.100	0.00200	"	0.100	ND	100	70-130	24.9	20	QR-02
Naphthalene	0.128	0.00380	"	0.100	ND	128	70-130	18.0	20	
Toluene	0.104	0.00200	"	0.100	ND	104	70-130	28.0	20	QR-02
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130	21.3	20	QR-02
m,p-Xylene	0.210	0.00400	"	0.200	ND	105	70-130	23.0	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.0	70-130			

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 - Freauff 33-4A

**Volatile Organic Compounds by GC/MS SW846 8260D - 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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**Classical Chemistry Parameters - 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 B3L1614 - Saturated Paste Metals**

**Blank (B3L1614-BLK1)**

Prepared: 12/16/2023 Analyzed: 12/18/2023

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 (B3L1614-DUP1)**

Source: Y312455-01

Prepared: 12/16/2023 Analyzed: 12/18/2023

Calcium PPM	19.8	10.0	mg/L		25.2			24.1	50	
SAR	ND	0.0100	SAR		0.976				200	
Magnesium PPM	14.3	10.0	mg/L		20.7			36.6	50	
Sodium PPM	59.7	10.0	"		27.3			74.5	50	

**Batch B3L1804 - DTPA Sorbitol Preparation**

**Blank (B3L1804-BLK1)**

Prepared: 12/18/2023 Analyzed: 12/19/2023

Boron	ND	0.100	mg/L							
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**Duplicate (B3L1804-DUP1)**

Source: Y312490-01

Prepared: 12/18/2023 Analyzed: 12/19/2023

Boron	1.94	0.101	mg/L		2.27			15.3	50	
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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 - Freauff 33-4A

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3L1611 - Saturated Paste pH/EC</b>										
<b>Blank (B3L1611-BLK1)</b>					Prepared: 12/16/2023 Analyzed: 12/17/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B3L1611-DUP1)</b>		<b>Source: Y312455-01</b>			Prepared: 12/16/2023 Analyzed: 12/17/2023					
pH	8.31		pH Units		8.29			0.241	25	
Specific Conductance (EC)	0.519	0.00500	mmhos/cm		0.564			8.33	25	

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 - Freauff 33-4A

---

### Notes and Definitions

U Sample is Non-Detect.

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

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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June 01, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Freauff 34-4

Project Number - [none]

Attached are your analytical results for KMG - Freauff 34-4 received by Origins Laboratory, Inc. May 24, 2023. This project is associated with Origins project number Y305641-01.

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 - Freauff 34-4

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@6'	Y305641-01	Soil	May 24, 2023 9:52	05/24/2023 17:50
FL-B01@4'	Y305641-02	Soil	May 24, 2023 10:22	05/24/2023 17:50
WH-BG01@3'	Y305641-03	Soil	May 24, 2023 10:08	05/24/2023 17:50
WH-BG01@6'	Y305641-04	Soil	May 24, 2023 10:10	05/24/2023 17:50
WH-BG02@3'	Y305641-05	Soil	May 24, 2023 10:12	05/24/2023 17:50
WH-BG02@6'	Y305641-06	Soil	May 24, 2023 10:14	05/24/2023 17:50
WH-BG03@3'	Y305641-07	Soil	May 24, 2023 10:16	05/24/2023 17:50
WH-BG03@6'	Y305641-08	Soil	May 24, 2023 10:18	05/24/2023 17:50
WH-BG04@3'	Y305641-09	Soil	May 24, 2023 10:20	05/24/2023 17:50
WH-BG04@6'	Y305641-10	Soil	May 24, 2023 10:22	05/24/2023 17:50

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 - Freauff 34-4

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

**ORIGINS**  
 LABORATORY, INC

www.originslaboratory.com

Client: Eagle Environmental (034)  
 Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
 Telephone Number: 303-923-0979  
 Email Address: dcoloccia@eagle-enviro.com


Project Manager: D. Coloccia  
 Project Name: Freauff 34-4  
 Project Number:           
 Samples Collected By: CC

In-File / 4305641 page 1 of 1

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis					Sample Instructions			
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	BTEX, N	TMS		TPH	EC/pH	SAR
WH-B6106	5/24/23	9:52	3							X			X	X	X		
FL-B0104		10:22										X	X	X	X		
WH-B6103		10:08															
WH-B6106		10:10															
WH-B60203		10:12															
WH-B60206		10:14															
WH-B60703		10:16															
WH-B60306		10:18															
WH-B60403		10:20															
WH-B60406		10:22															

Temp Received: 4.1 Date Results Needed

Relinquished By: John Lusk Date: 5/24/23 Time: 1750  
 Received By: CHS Date: 5/24/23 Time: 1750  
 Turnaround Time:  Same Day  24 Hr  48 Hr  72 Hr  Standard

Origins Laboratory, Inc.  


The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Freauff 34-4

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4305641

Client: Eagle

Client Project ID: Freauff 34-4

Checklist Completed by: EHS/TSN

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

Date/time completed: 5/24/23

Airbill #: NA

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

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

Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Evan Decker  
 Reviewed by (Project Manager)

5/24/23  
 Date/Time Reviewed

Origins Laboratory, Inc.

*Jefe Pellegrini*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Freauff 34-4

WH-B01@6'  
 5/24/2023 9:52:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y305641-01 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.593	0.0986	mg/L	1	B3E2508	KAP	05/25/2023	05/26/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2428	ZZZ	05/24/2023	05/25/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	102 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E2429	ZZZ	05/24/2023	05/25/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.8 %	70-130			"	"	"	"	

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 - Freauff 34-4

WH-B01@6'  
 5/24/2023 9:52:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y305641-01 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	19.2	0.499	meq/L	10	[CALC]	KAP	05/26/2023	05/30/2023	
Magnesium	18.7	0.823	"	"	"	KAP	"	"	
Sodium	6.80	0.435	"	"	"	KAP	"	"	

**pH in Soil by 9045D**

pH	7.68		pH Units	1	B3E2609	HJD	05/26/2023	05/27/2023	
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**SAR by 20B Saturated Paste**

SAR	1.56		SAR	1	B3E2602	ZZZ	05/26/2023	05/30/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	3.97	0.00500	mmhos/cm	1	B3E2609	HJD	05/26/2023	05/27/2023	
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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 - Freauff 34-4

**FL-B01@4'**

**5/24/2023 10:22:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305641-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.318	0.0985	mg/L	1	B3E2508	KAP	05/25/2023	05/26/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2428	ZZZ	05/24/2023	05/25/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	92.8 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E2429	ZZZ	05/24/2023	05/25/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	91.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.5 %	70-130			"	"	"	"	

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 - Freauff 34-4

FL-B01@4'

5/24/2023 10:22:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y305641-02 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	1.70	0.499	meq/L	10	[CALC]	KAP	05/26/2023	05/30/2023	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	1.96	0.435	"	"	"	KAP	"	"	

**pH in Soil by 9045D**

pH	8.03		pH Units	1	B3E2609	HJD	05/26/2023	05/27/2023	
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**SAR by 20B Saturated Paste**

SAR	1.77		SAR	1	B3E2602	ZZZ	05/26/2023	05/30/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.678	0.00500	mmhos/cm	1	B3E2609	HJD	05/26/2023	05/27/2023	
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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 - Freauff 34-4

**WH-BG01@3'**  
**5/24/2023 10:08:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305641-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.787	0.0999	mg/L	1	B3E2508	KAP	05/25/2023	05/26/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	19.9	0.499	meq/L	10	[CALC]	KAP	05/26/2023	05/30/2023	
Magnesium	44.8	0.823	"	"	"	KAP	"	"	
Sodium	44.1	0.435	"	"	"	KAP	"	"	

**pH in Soil by 9045D**

pH	7.94		pH Units	1	B3E2609	HJD	05/26/2023	05/27/2023	
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**SAR by 20B Saturated Paste**

SAR	7.74		SAR	1	B3E2602	ZZZ	05/26/2023	05/30/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	7.89	0.00500	mmhos/cm	1	B3E2609	HJD	05/26/2023	05/27/2023	
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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 - Freauff 34-4

**WH-BG01@6'**

**5/24/2023 10:10:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305641-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.659	0.0986	mg/L	1	B3E2508	KAP	05/25/2023	05/26/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	21.1	0.499	meq/L	10	[CALC]	KAP	05/26/2023	05/30/2023	
Magnesium	32.5	0.823	"	"	"	KAP	"	"	
Sodium	29.7	0.435	"	"	"	KAP	"	"	

**pH in Soil by 9045D**

pH	7.96		pH Units	1	B3E2609	HJD	05/26/2023	05/27/2023	
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**SAR by 20B Saturated Paste**

SAR	5.74		SAR	1	B3E2602	ZZZ	05/26/2023	05/30/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	6.11	0.00500	mmhos/cm	1	B3E2609	HJD	05/26/2023	05/27/2023	
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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 - Freauff 34-4

**WH-BG02@3'**

**5/24/2023 10:12:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305641-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.960	0.0994	mg/L	1	B3E2508	KAP	05/25/2023	05/26/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	24.9	0.499	meq/L	10	[CALC]	KAP	05/26/2023	05/30/2023	
Magnesium	20.2	0.823	"	"	"	KAP	"	"	
Sodium	9.92	0.435	"	"	"	KAP	"	"	

**pH in Soil by 9045D**

pH	7.88		pH Units	1	B3E2609	HJD	05/26/2023	05/27/2023	
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**SAR by 20B Saturated Paste**

SAR	2.09		SAR	1	B3E2602	ZZZ	05/26/2023	05/30/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	4.39	0.00500	mmhos/cm	1	B3E2609	HJD	05/26/2023	05/27/2023	
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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 - Freauff 34-4

**WH-BG02@6'**

**5/24/2023 10:14:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305641-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	2.71	0.100	mg/L	1	B3E2508	KAP	05/25/2023	05/26/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	20.7	0.499	meq/L	10	[CALC]	KAP	05/26/2023	05/30/2023	
Magnesium	56.8	0.823	"	"	"	KAP	"	"	
Sodium	60.1	0.435	"	"	"	KAP	"	"	

**pH in Soil by 9045D**

pH	8.00		pH Units	1	B3E2609	HJD	05/26/2023	05/27/2023	
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**SAR by 20B Saturated Paste**

SAR	9.65		SAR	1	B3E2602	ZZZ	05/26/2023	05/30/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	10.6	0.00500	mmhos/cm	1	B3E2609	HJD	05/26/2023	05/27/2023	
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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 - Freauff 34-4

**WH-BG03@3'**

**5/24/2023 10:16:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305641-07 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.30	0.0995	mg/L	1	B3E2508	KAP	05/25/2023	05/26/2023
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**Metals by Saturated Paste by EPA 6010**

Calcium	24.1	0.499	meq/L	10	[CALC]	KAP	05/26/2023	05/30/2023
Magnesium	45.4	0.823	"	"	"	KAP	"	"
Sodium	47.6	0.435	"	"	"	KAP	"	"

**pH in Soil by 9045D**

pH	7.83		pH Units	1	B3E2609	HJD	05/26/2023	05/27/2023
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**SAR by 20B Saturated Paste**

SAR	8.07		SAR	1	B3E2602	KAP	05/26/2023	05/30/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	9.63	0.00500	mmhos/cm	1	B3E2609	HJD	05/26/2023	05/27/2023
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Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Freauff 34-4

**WH-BG03@6'**  
**5/24/2023 10:18:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305641-08 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.17	0.101	mg/L	1	B3E2508	KAP	05/25/2023	05/26/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	24.8	0.499	meq/L	10	[CALC]	KAP	05/26/2023	05/30/2023	
Magnesium	33.4	0.823	"	"	"	KAP	"	"	
Sodium	28.5	0.435	"	"	"	KAP	"	"	

**pH in Soil by 9045D**

pH	7.89		pH Units	1	B3E2609	HJD	05/26/2023	05/27/2023	
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**SAR by 20B Saturated Paste**

SAR	5.28		SAR	1	B3E2602	KAP	05/26/2023	05/30/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	7.60	0.00500	mmhos/cm	1	B3E2609	HJD	05/26/2023	05/27/2023	
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Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Freauff 34-4

**WH-BG04@3'**  
**5/24/2023 10:20:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305641-09 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.686	0.100	mg/L	1	B3E2508	KAP	05/25/2023	05/26/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	30.7	0.499	meq/L	10	[CALC]	KAP	05/26/2023	05/30/2023	
Magnesium	29.3	0.823	"	"	"	KAP	"	"	
Sodium	16.2	0.435	"	"	"	KAP	"	"	

**pH in Soil by 9045D**

pH	7.87		pH Units	1	B3E2609	HJD	05/26/2023	05/27/2023	
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**SAR by 20B Saturated Paste**

SAR	2.96		SAR	1	B3E2602	KAP	05/26/2023	05/30/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	6.92	0.00500	mmhos/cm	1	B3E2609	HJD	05/26/2023	05/27/2023	
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Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Freauff 34-4

**WH-BG04@6'**  
**5/24/2023 10:22:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y305641-10 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.422	0.101	mg/L	1	B3E2508	KAP	05/25/2023	05/26/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	13.2	0.499	meq/L	10	[CALC]	KAP	05/26/2023	05/30/2023	
Magnesium	11.1	0.823	"	"	"	KAP	"	"	
Sodium	3.07	0.435	"	"	"	KAP	"	"	

**pH in Soil by 9045D**

pH	7.63		pH Units	1	B3E2609	HJD	05/26/2023	05/27/2023	
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**SAR by 20B Saturated Paste**

SAR	0.882		SAR	1	B3E2602	KAP	05/26/2023	05/30/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	3.03	0.00500	mmhos/cm	1	B3E2609	HJD	05/26/2023	05/27/2023	
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Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Freauff 34-4

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3E2428 - EPA 3550B</b>										
<b>Blank (B3E2428-BLK1)</b>										
					Prepared: 05/24/2023 Analyzed: 05/24/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		90.1	50-150			

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 - Freauff 34-4

**Extractable Petroleum Hydrocarbons by 8015D - 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 B3E2428 - EPA 3550B**

**LCS (B3E2428-BS1)**

Prepared: 05/24/2023 Analyzed: 05/24/2023

Diesel (C10-C28)	774	50.0	mg/kg	1000		77.4	70-130			
Residual Range Organics (C28-C40)	819	200	"	1000		81.9	70-130			
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

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 - Freauff 34-4

**Extractable Petroleum Hydrocarbons by 8015D - 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 B3E2428 - EPA 3550B**

<b>Matrix Spike (B3E2428-MS1)</b>	<b>Source: Y305630-01</b>			<b>Prepared: 05/24/2023 Analyzed: 05/24/2023</b>						
Diesel (C10-C28)	833	50.0	mg/kg	1000	ND	83.3	70-130			
Residual Range Organics (C28-C40)	906	200	"	1000	ND	90.6	70-130			
Surrogate: o-Terphenyl	48		"	49.8		95.9	50-150			

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 - Freauff 34-4

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3E2428 - EPA 3550B</b>										
<b>Matrix Spike Dup (B3E2428-MSD1)</b>					<b>Source: Y305630-01</b>					Prepared: 05/24/2023 Analyzed: 05/24/2023
Diesel (C10-C28)	901	50.0	mg/kg	1000	ND	90.1	70-130	7.86	35	
Residual Range Organics (C28-C40)	994	200	"	1000	ND	99.4	70-130	9.21	35	
Surrogate: o-Terphenyl	58		"	49.8		117	50-150			

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 - Freauff 34-4

**Extractable Petroleum Hydrocarbons by 8015D - 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 B3E2429 - EPA 5030 (soil)**

**Blank (B3E2429-BLK1)**

Prepared: 05/24/2023 Analyzed: 05/24/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.8	70-130			

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 - Freauff 34-4

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3E2429 - EPA 5030 (soil)**

**LCS (B3E2429-BS1)**

Prepared: 05/24/2023 Analyzed: 05/24/2023

1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.117	0.00200	"	0.100		117	70-130			
Benzene	0.112	0.00200	"	0.100		112	70-130			
Ethylbenzene	0.113	0.00200	"	0.100		113	70-130			
Naphthalene	0.102	0.00380	"	0.100		102	70-130			
Toluene	0.108	0.00200	"	0.100		108	70-130			
o-Xylene	0.114	0.00200	"	0.100		114	70-130			
m,p-Xylene	0.236	0.00400	"	0.200		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.4	70-130			

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 - Freauff 34-4

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3E2429 - EPA 5030 (soil)

Matrix Spike (B3E2429-MS1)	Source: Y305635-01			Prepared: 05/24/2023 Analyzed: 05/24/2023						
1,2,4-Trimethylbenzene	0.121	0.00200	mg/kg	0.100	ND	121	70-130			
1,3,5-Trimethylbenzene	0.125	0.00200	"	0.100	0.00176	123	70-130			
Benzene	0.117	0.00200	"	0.100	0.000960	116	70-130			
Ethylbenzene	0.114	0.00200	"	0.100	0.000940	113	70-130			
Naphthalene	0.118	0.00380	"	0.100	0.00278	115	70-130			
Toluene	0.112	0.00200	"	0.100	ND	112	70-130			
o-Xylene	0.116	0.00200	"	0.100	ND	116	70-130			
m,p-Xylene	0.239	0.00400	"	0.200	0.00118	119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		87.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.3	70-130			

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 - Freauff 34-4

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3E2429 - EPA 5030 (soil)

Matrix Spike Dup (B3E2429-MSD1)	Source: Y305635-01	Prepared: 05/24/2023	Analyzed: 05/24/2023						
1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100	ND	111	70-130	8.64	20
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100	0.00176	112	70-130	9.01	20
Benzene	0.110	0.00200	"	0.100	0.000960	109	70-130	6.19	20
Ethylbenzene	0.107	0.00200	"	0.100	0.000940	106	70-130	5.75	20
Naphthalene	0.115	0.00380	"	0.100	0.00278	113	70-130	2.31	20
Toluene	0.106	0.00200	"	0.100	ND	106	70-130	5.40	20
o-Xylene	0.109	0.00200	"	0.100	ND	109	70-130	5.96	20
m,p-Xylene	0.224	0.00400	"	0.200	0.00118	111	70-130	6.44	20
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.0	70-130		
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130		
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.1	70-130		

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 - Freauff 34-4

**Volatile Organic Compounds by GC/MS SW846 8260D - 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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**Classical Chemistry Parameters - 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 B3E2508 - DTPA Sorbitol Preparation**

**Blank (B3E2508-BLK1)**

Prepared: 05/25/2023 Analyzed: 05/26/2023

Boron	ND	0.100	mg/L							U
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**Duplicate (B3E2508-DUP1)**

Source: Y305639-04

Prepared: 05/25/2023 Analyzed: 05/26/2023

Boron	0.0522	0.0988	mg/L		0.0577			10.1	50	
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**Batch B3E2602 - Saturated Paste Metals**

**Blank (B3E2602-BLK1)**

Prepared: 05/26/2023 Analyzed: 05/30/2023

Calcium PPM	ND	10.0	mg/L							U
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SAR	0.00		SAR							U
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Magnesium PPM	ND	10.0	mg/L							U
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Sodium PPM	ND	10.0	"							U
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**Duplicate (B3E2602-DUP1)**

Source: Y305641-01

Prepared: 05/26/2023 Analyzed: 05/30/2023

Calcium PPM	192	10.0	mg/L		384			66.7	50	QR-DUP
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SAR	0.00		SAR		1.56			200	200	U
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Magnesium PPM	130	10.0	mg/L		227			54.5	50	QR-DUP
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Sodium PPM	123	10.0	"		156			23.9	50	
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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Freauff 34-4

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3E2609 - Saturated Paste pH/EC</b>										
<b>Blank (B3E2609-BLK1)</b>					Prepared: 05/26/2023 Analyzed: 05/27/2023					
Specific Conductance (EC)	0.00380	0.00500	mmhos/cm							
<b>Duplicate (B3E2609-DUP1)</b>		<b>Source: Y305641-01</b>			Prepared: 05/26/2023 Analyzed: 05/27/2023					
Specific Conductance (EC)	2.78	0.00500	mmhos/cm		3.97			35.1	25	QR-DUP
pH	7.69		pH Units		7.68			0.130	25	

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 - Freauff 34-4

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### Notes and Definitions

U Sample is Non-Detect.

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

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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---

Jen Pellegrini For Jordan A. Bynon, Project Manager



September 22, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - PSC 16-4/Freauff 33- O SA Project Number - [none]

Attached are your analytical results for KMG - PSC 16-4/Freauff 33- O SA received by Origins Laboratory, Inc. September 14, 2023. This project is associated with Origins project number Y309286-01.

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 - PSC 16-4/Freauff 33- O SA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP-B01@1'	Y309286-01	Soil	September 14, 2023 12:45	09/14/2023 16:00
SEP-B02@3"	Y309286-02	Soil	September 14, 2023 12:47	09/14/2023 16:00
AST-B01@3"	Y309286-03	Soil	September 14, 2023 12:55	09/14/2023 16:00
PW-B01@5'	Y309286-04	Soil	September 14, 2023 12:57	09/14/2023 16:00
PW-N01@3'	Y309286-05	Soil	September 14, 2023 12:58	09/14/2023 16:00
PW-BG01@3"	Y309286-06	Soil	September 14, 2023 13:08	09/14/2023 16:00
PW-BG02@3'	Y309286-07	Soil	September 14, 2023 13:15	09/14/2023 16:00
PW-BG02@6'	Y309286-08	Soil	September 14, 2023 13:17	09/14/2023 16:00
PW-BG03@3'	Y309286-09	Soil	September 14, 2023 13:25	09/14/2023 16:00
PW-BG03@6'	Y309286-10	Soil	September 14, 2023 13:28	09/14/2023 16:00
PW-BG04@3"	Y309286-11	Soil	September 14, 2023 13:31	09/14/2023 16:00

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 - PSC 16-4/Freauff 33- O SA

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



Client: Eagle/Oxy  
 Address: 8000 W 44th Ave  
Wheat Ridge, CO, 80033  
 Telephone Number: 303-433-4479  
 Email Address: d.coloccia@eagle-oxy.com

Project Manager: D. Coloccia  
 Project Name: PSC 16-4/Freauff 33- O SA  
 Project Number: 4309286  
 Samples Collected By: Logan Molson

Initial

www.originslaboratory.com

page 1 of 2

Temp Received: 3.0 Date Results Needed

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis			Sample Instructions		
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	BTEXN		TPH	PH, EC, SAR, Boron Metals
SEP-B0101'	9-14-23	1245	3	X					X						
SEP-B0203"		1247													
AST-B0103"		1255													
PM-B0105'		1257													
PM-A0103'		1259													
PM-B00103"		1308	2												
PM-B00203'		1315													
PM-B00206'		1317													
PM-B00303'		1325													
PM-B00306'		1328													
Refrinquired By: <u>SM</u>	Date: <u>9-14-23</u>	Time: <u>1600</u>	Received By: <u>CHS</u>	Date: <u>9/14/23</u>	Time: <u>1600</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard									

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PSC 16-4/Freauff 33- O SA

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4309286

Client: Eagle

Client Project ID: PSC 16-4 Freauff 33-OSA

Checklist Completed by: EHS

Shipped Via: KO

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

Date/time completed: 9/14/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 13.6 °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 <sup>(1)</sup> ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			/	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

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

[Signature]  
 Reviewed by (Project Manager)

9/14/23  
 Date/Time Reviewed

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 - PSC 16-4/Freauff 33- O SA

**SEP-B01@1'**  
**9/14/2023 12:45:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309286-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.186		0.101	mg/L	1	B3I1506	09/15/2023	09/19/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3I1428	09/14/2023	09/15/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	92.2 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.199		0.00200	mg/kg	1	B3I1429	09/14/2023	09/15/2023	
1,3,5-Trimethylbenzene	0.110		0.00200	"	"	"	"	"	
Benzene	0.00834		0.00200	"	"	"	"	"	
Ethylbenzene	0.0466		0.00200	"	"	"	"	"	
Toluene	0.188		0.00200	"	"	"	"	"	
Xylenes, total	0.612		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	11.2		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	92.8 %		70-130			"	"	"	
Surrogate: Toluene-d8	93.6 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.1 %		70-130			"	"	"	

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 - PSC 16-4/Freauff 33- O SA

SEP-B01@1'

9/14/2023 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y309286-01 (Soil)

**Metals by Saturated Paste by EPA 6010**

Calcium	2.50		0.499	meq/L	10	[CALC]	09/15/2023	09/18/2023	
Magnesium	1.10		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	0.079		0.002	mg/kg	1	B311332	09/14/2023	09/15/2023	
2-Methylnaphthalene	0.149		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	0.020		0.020	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	0.030		0.002	"	"	"	"	"	
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	102 %		60-130			"	"	"	

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 - PSC 16-4/Freauff 33- O SA

SEP-B01@1'

9/14/2023 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y309286-01 (Soil)

**PAH by EPA 8270E**

Surrogate: Anthracene-d10	96.8 %		60-130			B31133 2	09/14/2023	09/15/2023	
Surrogate: Benzo (a) pyrene-d12	105 %		60-130			"	"	"	
Surrogate: Pyrene-d10	109 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	7.94			pH Units	1	B311510	09/15/2023	09/16/2023	
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**SAR by 20B Saturated Paste**

SAR	0.241		0.0100	SAR	1	B311503	09/15/2023	09/18/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.483		0.00500	mmhos/cm	1	B311510	09/15/2023	09/16/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	3.66		0.0848	mg/kg	10	B311501	09/15/2023	09/19/2023	
Barium	67.2		8.48	"	"	"	"	"	
Cadmium	0.190		0.0848	"	"	"	"	"	
Copper	ND		8.48	"	"	"	"	"	
Lead	ND		8.48	"	"	"	"	"	
Nickel	ND		8.48	"	"	"	"	"	
Selenium	0.149		0.0848	"	"	"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PSC 16-4/Freauff 33- O SA

SEP-B01@1'

9/14/2023 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y309286-01 (Soil)

**Table 915 metals by EPA 6020B**

Silver	ND		0.0848	mg/kg	10	B311501	09/15/2023	09/19/2023	
Zinc	ND		84.8	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L705512	09/14/2023	09/20/2023	
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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 - PSC 16-4/Freauff 33- O SA

**SEP-B02@3"**

**9/14/2023 12:47:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309286-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.0991	mg/L	1	B311506	09/15/2023	09/19/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B311428	09/14/2023	09/15/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	92.6 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B311429	09/14/2023	09/15/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	09/15/2023	U

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 - PSC 16-4/Freauff 33- O SA

**SEP-B02@3"**

**9/14/2023 12:47:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309286-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	92.8 %		70-130			B31142 9	09/14/2023	09/15/2023	
Surrogate: Toluene-d8	94.1 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	87.2 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.77		0.499	meq/L	10	[CALC]	09/15/2023	09/18/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.14			pH Units	1	B311510	09/15/2023	09/16/2023	
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**SAR by 20B Saturated Paste**

SAR	0.0838		0.0100	SAR	1	B311503	09/15/2023	09/18/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.267		0.00500	mmhos/cm	1	B311510	09/15/2023	09/16/2023	
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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 - PSC 16-4/Freauff 33- O SA

**AST-B01@3"**

**9/14/2023 12:55:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309286-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.280		0.101	mg/L	1	B3I1506	09/15/2023	09/19/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3I1428	09/14/2023	09/15/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.6 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3I1429	09/14/2023	09/15/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

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 - PSC 16-4/Freauff 33- O SA

**AST-B01@3"**

**9/14/2023 12:55:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309286-03 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	91.9 %		70-130			B31142 9	09/14/2023	09/15/2023	
Surrogate: Toluene-d8	95.3 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	86.8 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	20.1		0.499	meq/L	10	[CALC]	09/15/2023	09/18/2023	
Magnesium	9.03		0.823	"	"	"	"	"	
Sodium	6.31		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.79			pH Units	1	B311510	09/15/2023	09/16/2023	
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**SAR by 20B Saturated Paste**

SAR	1.65		0.0100	SAR	1	B311503	09/15/2023	09/18/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	2.95		0.00500	mmhos/cm	1	B311510	09/15/2023	09/16/2023	
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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 - PSC 16-4/Freauff 33- O SA

**PW-B01@5'**

**9/14/2023 12:57:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309286-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.210		0.0992	mg/L	1	B3I1506	09/15/2023	09/19/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3I1428	09/14/2023	09/15/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	92.6 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3I1429	09/14/2023	09/15/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

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 - PSC 16-4/Freauff 33- O SA

**PW-B01@5'**

**9/14/2023 12:57:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309286-04 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	94.9 %		70-130			B311429	09/14/2023	09/15/2023	
Surrogate: Toluene-d8	97.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	83.3 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.51		0.499	meq/L	10	[CALC]	09/15/2023	09/18/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.835		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.27			pH Units	1	B311510	09/15/2023	09/16/2023	
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**SAR by 20B Saturated Paste**

SAR	0.799		0.0100	SAR	1	B311503	09/15/2023	09/18/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.427		0.00500	mmhos/cm	1	B311510	09/15/2023	09/16/2023	
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Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PSC 16-4/Freauff 33- O SA

**PW-N01@3'**

**9/14/2023 12:59:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309286-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.305		0.0981	mg/L	1	B3I1506	09/15/2023	09/19/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3I1428	09/14/2023	09/15/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	93.3 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3I1429	09/14/2023	09/15/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PSC 16-4/Freauff 33- O SA

**PW-N01@3'**

**9/14/2023 12:59:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309286-05 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	91.6 %		70-130			B31142 9	09/14/2023	09/15/2023	
Surrogate: Toluene-d8	96.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	82.3 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.75		0.499	meq/L	10	[CALC]	09/15/2023	09/18/2023	
Magnesium	0.846		0.823	"	"	"	"	"	
Sodium	1.02		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.22			pH Units	1	B311510	09/15/2023	09/16/2023	
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**SAR by 20B Saturated Paste**

SAR	0.898		0.0100	SAR	1	B311503	09/15/2023	09/18/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.448		0.00500	mmhos/cm	1	B311510	09/15/2023	09/16/2023	
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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PSC 16-4/Freauff 33- O SA

**PW-BG01@3"**

**9/14/2023 1:08:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309286-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.421		0.0998	mg/L	1	B3I1506	09/15/2023	09/19/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.90		0.499	meq/L	10	[CALC]	09/15/2023	09/18/2023	
Magnesium	1.10		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.22			pH Units	1	B3I1510	09/15/2023	09/16/2023	
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**SAR by 20B Saturated Paste**

SAR	0.201		0.0100	SAR	1	B3I1503	09/15/2023	09/18/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.424		0.00500	mmhos/cm	1	B3I1510	09/15/2023	09/16/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	3.31		0.0917	mg/kg	10	B3I1501	09/15/2023	09/19/2023	
Barium	65.6		9.17	"	"	"	"	"	
Cadmium	0.123		0.0917	"	"	"	"	"	
Copper	ND		9.17	"	"	"	"	"	

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PSC 16-4/Freauff 33- O SA

**PW-BG01@3"**

**9/14/2023 1:08:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309286-06 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	ND		9.17	mg/kg	10	B311501	09/15/2023	09/19/2023	
Nickel	ND		9.17	"	"	"	"	"	
Selenium	<b>0.135</b>		0.0917	"	"	"	"	"	
Silver	ND		0.0917	"	"	"	"	"	
Zinc	ND		91.7	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.251	0.515	mg/Kg	1	L705512	09/14/2023	09/20/2023	
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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PSC 16-4/Freauff 33- O SA

**PW-BG02@3'**

**9/14/2023 1:15:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309286-07 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.894		0.0997	mg/L	1	B311506	09/15/2023	09/19/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.24		0.499	meq/L	10	[CALC]	09/15/2023	09/18/2023	
Magnesium	0.998		0.823	"	"	"	"	"	
Sodium	0.495		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.99			pH Units	1	B311510	09/15/2023	09/16/2023	
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**SAR by 20B Saturated Paste**

SAR	0.469		0.0100	SAR	1	B311503	09/15/2023	09/18/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.359		0.00500	mmhos/cm	1	B311510	09/15/2023	09/16/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	3.81		0.0905	mg/kg	10	B311501	09/15/2023	09/19/2023	
Barium	71.0		9.05	"	"	"	"	"	
Cadmium	0.117		0.0905	"	"	"	"	"	
Copper	ND		9.05	"	"	"	"	"	

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PSC 16-4/Freauff 33- O SA

**PW-BG02@3'**

**9/14/2023 1:15:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309286-07 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	ND		9.05	mg/kg	10	B311501	09/15/2023	09/19/2023	
Nickel	<b>11.2</b>		9.05	"	"	"	"	"	
Selenium	<b>0.138</b>		0.0905	"	"	"	"	"	
Silver	ND		0.0905	"	"	"	"	"	
Zinc	ND		90.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L705512	09/14/2023	09/20/2023	
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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PSC 16-4/Freauff 33- O SA

**PW-BG02@6'**

**9/14/2023 1:17:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309286-08 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.767		0.0987	mg/L	1	B3I1506	09/15/2023	09/19/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	23.3		0.499	meq/L	10	[CALC]	09/15/2023	09/18/2023	
Magnesium	14.2		0.823	"	"	"	"	"	
Sodium	1.86		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.10			pH Units	1	B3I1510	09/15/2023	09/16/2023	
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**SAR by 20B Saturated Paste**

SAR	0.430		0.0100	SAR	1	B3I1503	09/15/2023	09/18/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	2.92		0.00500	mmhos/cm	1	B3I1510	09/15/2023	09/16/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	4.53		0.0889	mg/kg	10	B3I1501	09/15/2023	09/19/2023	
Barium	144		8.89	"	"	"	"	"	
Cadmium	0.164		0.0889	"	"	"	"	"	
Copper	ND		8.89	"	"	"	"	"	

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 - PSC 16-4/Freauff 33- O SA

**PW-BG02@6'**

**9/14/2023 1:17:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309286-08 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	9.35		8.89	mg/kg	10	B311501	09/15/2023	09/19/2023	
Nickel	12.9		8.89	"	"	"	"	"	
Selenium	0.148		0.0889	"	"	"	"	"	
Silver	ND		0.0889	"	"	"	"	"	
Zinc	ND		88.9	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.502	mg/Kg	1	L705512	09/14/2023	09/20/2023	
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Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PSC 16-4/Freauff 33- O SA

**PW-BG03@3'**

**9/14/2023 1:25:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309286-09 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.340	0.0985	mg/L	1	B3I1506	09/15/2023	09/19/2023
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.12	0.499	meq/L	10	[CALC]	09/15/2023	09/18/2023
Magnesium	1.43	0.823	"	"	"	"	"
Sodium	2.66	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.37		pH Units	1	B3I1510	09/15/2023	09/16/2023
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**SAR by 20B Saturated Paste**

SAR	2.35	0.0100	SAR	1	B3I1503	09/15/2023	09/18/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.670	0.00500	mmhos/cm	1	B3I1510	09/15/2023	09/16/2023
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**Table 915 metals by EPA 6020B**

Arsenic	4.71	0.0949	mg/kg	10	B3I1501	09/15/2023	09/19/2023
Barium	73.3	9.49	"	"	"	"	"
Cadmium	ND	0.0949	"	"	"	"	"
Copper	ND	9.49	"	"	"	"	"

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 - PSC 16-4/Freauff 33- O SA

**PW-BG03@3'**

**9/14/2023 1:25:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309286-09 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	ND		9.49	mg/kg	10	B311501	09/15/2023	09/19/2023	
Nickel	<b>12.3</b>		9.49	"	"	"	"	"	
Selenium	ND		0.0949	"	"	"	"	"	
Silver	ND		0.0949	"	"	"	"	"	
Zinc	ND		94.9	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	<b>0.394</b>	<b>0.245</b>	0.503	mg/Kg	1	L705514	09/14/2023	09/20/2023	J
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Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PSC 16-4/Freauff 33- O SA

**PW-BG03@6'**

**9/14/2023 1:28:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309286-10 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.360		0.101	mg/L	1	B311506	09/15/2023	09/19/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.79		0.499	meq/L	10	[CALC]	09/15/2023	09/18/2023	
Magnesium	1.79		0.823	"	"	"	"	"	
Sodium	2.06		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.32			pH Units	1	B311510	09/15/2023	09/16/2023	
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**SAR by 20B Saturated Paste**

SAR	1.54		0.0100	SAR	1	B311503	09/15/2023	09/18/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.611		0.00500	mmhos/cm	1	B311510	09/15/2023	09/16/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	3.13		0.0923	mg/kg	10	B311501	09/15/2023	09/19/2023	
Barium	69.2		9.23	"	"	"	"	"	
Cadmium	ND		0.0923	"	"	"	"	"	
Copper	ND		9.23	"	"	"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PSC 16-4/Freauff 33- O SA

**PW-BG03@6'**

**9/14/2023 1:28:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309286-10 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	ND		9.23	mg/kg	10	B311501	09/15/2023	09/19/2023	
Nickel	11.3		9.23	"	"	"	"	"	
Selenium	0.134		0.0923	"	"	"	"	"	
Silver	ND		0.0923	"	"	"	"	"	
Zinc	ND		92.3	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.501	mg/Kg	1	L705514	09/14/2023	09/20/2023	
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Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PSC 16-4/Freauff 33- O SA

**PW-BG04@3"**

**9/14/2023 1:31:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309286-11 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.695		0.0995	mg/L	1	B311506	09/15/2023	09/19/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	5.34		0.499	meq/L	10	[CALC]	09/15/2023	09/18/2023	
Magnesium	2.47		0.823	"	"	"	"	"	
Sodium	0.590		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.12			pH Units	1	B311510	09/15/2023	09/16/2023	
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**SAR by 20B Saturated Paste**

SAR	0.298		0.0100	SAR	1	B311503	09/15/2023	09/18/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.973		0.00500	mmhos/cm	1	B311510	09/15/2023	09/16/2023	
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**Table 915 metals by EPA 6020B**

Arsenic	3.73		0.0923	mg/kg	10	B311501	09/15/2023	09/19/2023	
Barium	78.9		9.23	"	"	"	"	"	
Cadmium	0.212		0.0923	"	"	"	"	"	
Copper	ND		9.23	"	"	"	"	"	

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PSC 16-4/Freauff 33- O SA

**PW-BG04@3"**

**9/14/2023 1:31:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309286-11 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	28.6		9.23	mg/kg	10	B311501	09/15/2023	09/19/2023	
Nickel	9.75		9.23	"	"	"	"	"	
Selenium	0.134		0.0923	"	"	"	"	"	
Silver	ND		0.0923	"	"	"	"	"	
Zinc	ND		92.3	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.248	0.51	mg/Kg	1	L705514	09/14/2023	09/20/2023	
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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PSC 16-4/Freauff 33- O SA

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B311428 - EPA 3550B</b>										
<b>Blank (B311428-BLK1)</b>										
					Prepared: 09/14/2023 Analyzed: 09/14/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	29		"	24.9		118	50-150			

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PSC 16-4/Freauff 33- O SA

**Extractable Petroleum Hydrocarbons by 8015D - 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 B311428 - EPA 3550B**

**LCS (B311428-BS1)**

Prepared: 09/14/2023 Analyzed: 09/14/2023

Diesel (C10-C28)	1060	50.0	mg/kg	1000		106	70-130			
Residual Range Organics (C28-C40)	1160	200	"	1000		116	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PSC 16-4/Freauff 33- O SA

**Extractable Petroleum Hydrocarbons by 8015D - 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 B311428 - EPA 3550B**

<b>Matrix Spike (B311428-MS1)</b>	<b>Source: Y309273-01</b>			<b>Prepared: 09/14/2023 Analyzed: 09/14/2023</b>						
Diesel (C10-C28)	954	50.0	mg/kg	1000	ND	95.4	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

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Jordan A. Bynon, Project Manager

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PSC 16-4/Freauff 33- O SA

**Extractable Petroleum Hydrocarbons by 8015D - 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 B311428 - EPA 3550B

Matrix Spike Dup (B311428-MSD1)	Source: Y309273-01			Prepared: 09/14/2023 Analyzed: 09/14/2023						
Diesel (C10-C28)	913	50.0	mg/kg	1000	ND	91.3	70-130	4.43	35	
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130	3.96	35	
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PSC 16-4/Freauff 33- O SA

**Extractable Petroleum Hydrocarbons by 8015D - 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 B311429 - EPA 5030 (soil)**

**Blank (B311429-BLK1)**

Prepared: 09/14/2023 Analyzed: 09/14/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125	91.8		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	94.4		70-130			
Surrogate: 4-Bromofluorobenzene	0.10		"	0.125	83.6		70-130			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PSC 16-4/Freauff 33- O SA

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B311429 - EPA 5030 (soil)**

**LCS (B311429-BS1)**

Prepared: 09/14/2023 Analyzed: 09/14/2023

1,2,4-Trimethylbenzene	0.109	0.00200	mg/kg	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Benzene	0.106	0.00200	"	0.100		106	70-130			
Ethylbenzene	0.0921	0.00200	"	0.100		92.1	70-130			
Naphthalene	0.0910	0.00380	"	0.100		91.0	70-130			
Toluene	0.0948	0.00200	"	0.100		94.8	70-130			
o-Xylene	0.0869	0.00200	"	0.100		86.9	70-130			
m,p-Xylene	0.198	0.00400	"	0.200		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.8	70-130			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PSC 16-4/Freauff 33- O SA

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B311429 - EPA 5030 (soil)

Matrix Spike (B311429-MS1)	Source: Y309273-01			Prepared: 09/14/2023 Analyzed: 09/14/2023						
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130			
1,3,5-Trimethylbenzene	0.0994	0.00200	"	0.100	ND	99.4	70-130			
Benzene	0.0969	0.00200	"	0.100	ND	96.9	70-130			
Ethylbenzene	0.0884	0.00200	"	0.100	ND	88.4	70-130			
Naphthalene	0.0790	0.00380	"	0.100	ND	79.0	70-130			
Toluene	0.0858	0.00200	"	0.100	ND	85.8	70-130			
o-Xylene	0.0813	0.00200	"	0.100	ND	81.3	70-130			
m,p-Xylene	0.188	0.00400	"	0.200	ND	94.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.7	70-130			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PSC 16-4/Freauff 33- O SA

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B311429 - EPA 5030 (soil)

Matrix Spike Dup (B311429-MSD1)	Source: Y309273-01			Prepared: 09/14/2023 Analyzed: 09/14/2023						
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130	3.76	20	
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130	3.97	20	
Benzene	0.0974	0.00200	"	0.100	ND	97.4	70-130	0.453	20	
Ethylbenzene	0.0907	0.00200	"	0.100	ND	90.7	70-130	2.59	20	
Naphthalene	0.0828	0.00380	"	0.100	ND	82.8	70-130	4.62	20	
Toluene	0.0865	0.00200	"	0.100	ND	86.5	70-130	0.812	20	
o-Xylene	0.0849	0.00200	"	0.100	ND	84.9	70-130	4.31	20	
m,p-Xylene	0.194	0.00400	"	0.200	ND	96.9	70-130	2.93	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.1	70-130			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PSC 16-4/Freauff 33- O SA

**Volatile Organic Compounds by GC/MS SW846 8260D - 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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**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 B3I1501 - EPA 3050B**

**Blank (B3I1501-BLK1)**

Prepared: 09/15/2023 Analyzed: 09/19/2023

Arsenic	ND	0.000100	mg/kg
Barium	ND	0.0100	"
Cadmium	ND	0.000100	"
Copper	ND	0.0100	"
Lead	ND	0.0100	"
Nickel	ND	0.0100	"
Selenium	ND	0.000100	"
Silver	ND	0.000100	"
Zinc	ND	0.100	"

**LCS (B3I1501-BS1)**

Prepared: 09/15/2023 Analyzed: 09/19/2023

Arsenic	0.0488	0.000100	mg/kg	0.0500	97.7	80-120
Barium	4.80	0.0100	"	5.00	95.9	80-120
Cadmium	0.0492	0.000100	"	0.0500	98.5	80-120
Copper	0.439	0.0100	"	0.500	87.9	80-120
Lead	0.0500	0.0100	"	0.0500	100	80-120
Nickel	0.0512	0.0100	"	0.0500	102	80-120
Selenium	0.0505	0.000100	"	0.0500	101	80-120
Silver	0.0490	0.000100	"	0.0500	98.1	80-120
Zinc	0.515	0.100	"	0.500	103	80-120

**Matrix Spike (B3I1501-MS1)**

**Source: Y309266-03**

Prepared: 09/15/2023 Analyzed: 09/19/2023

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PSC 16-4/Freauff 33- O SA

**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 B311501 - EPA 3050B**

<b>Matrix Spike (B311501-MS1)</b>		<b>Source: Y309266-03</b>			<b>Prepared: 09/15/2023 Analyzed: 09/19/2023</b>					
Arsenic	5.91	0.0920	mg/kg	4.60	1.41	97.7	75-125			
Barium	501	9.20	"	460	11.9	106	75-125			
Cadmium	5.07	0.0920	"	4.60	0.180	106	75-125			
Copper	53.3	9.20	"	46.0	5.58	104	75-125			
Lead	18.7	9.20	"	4.60	23.8	NR	75-125			QM-07
Nickel	5.56	9.20	"	4.60	1.19	94.9	75-125			
Selenium	4.64	0.0920	"	4.60	0.0400	100	75-125			
Silver	4.91	0.0920	"	4.60	0.0502	106	75-125			
Zinc	68.9	92.0	"	46.0	32.4	79.3	75-125			
<b>Matrix Spike Dup (B311501-MSD1)</b>		<b>Source: Y309266-03</b>			<b>Prepared: 09/15/2023 Analyzed: 09/19/2023</b>					
Arsenic	6.29	0.0913	mg/kg	4.56	1.41	107	75-125	6.26	20	
Barium	478	9.13	"	456	11.9	102	75-125	4.83	20	
Cadmium	4.86	0.0913	"	4.56	0.180	103	75-125	4.24	20	
Copper	53.5	9.13	"	45.6	5.58	105	75-125	0.383	20	
Lead	27.0	9.13	"	4.56	23.8	68.9	75-125	36.2	20	QM-07
Nickel	6.14	9.13	"	4.56	1.19	108	75-125	9.90	20	
Selenium	4.96	0.0913	"	4.56	0.0400	108	75-125	6.58	20	
Silver	4.64	0.0913	"	4.56	0.0502	101	75-125	5.70	20	
Zinc	90.3	91.3	"	45.6	32.4	127	75-125	26.9	20	QM-07

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PSC 16-4/Freauff 33- O SA

**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3I1332 - EPA 3580**

**Blank (B3I1332-BLK1)**

Prepared: 09/14/2023 Analyzed: 09/14/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	200		"	200		98.7	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			
Surrogate: Pyrene-d10	190		"	200		93.9	60-130			

**LCS (B3I1332-BS1)**

Prepared: 09/14/2023 Analyzed: 09/14/2023

1-Methylnaphthalene	0.197	0.002	mg/kg	0.200		98.5	70-130			
2-Methylnaphthalene	0.196	0.002	"	0.200		97.9	70-130			
Acenaphthene	0.183	0.020	"	0.200		91.7	70-130			
Anthracene	0.162	0.020	"	0.200		80.8	70-130			

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PSC 16-4/Freauff 33- O SA

**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B311332 - EPA 3580**

**LCS (B311332-BS1)**

Prepared: 09/14/2023 Analyzed: 09/14/2023

Benzo (a) anthracene	0.195	0.005	mg/kg	0.200		97.3	70-130			
Benzo (a) pyrene	0.203	0.020	"	0.200		102	70-130			
Benzo (b) fluoranthene	0.214	0.020	"	0.200		107	70-130			
Benzo (g,h,i) perylene	0.209	0.020	"	0.200		105	70-130			
Benzo (k) fluoranthene	0.169	0.020	"	0.200		84.6	70-130			
Chrysene	0.171	0.020	"	0.200		85.4	70-130			
Dibenz (a,h) anthracene	0.189	0.020	"	0.200		94.3	70-130			
Fluoranthene	0.201	0.020	"	0.200		101	70-130			
Fluorene	0.192	0.020	"	0.200		96.0	70-130			
Indeno (1,2,3-cd) pyrene	0.186	0.020	"	0.200		93.1	70-130			
Naphthalene	0.190	0.002	"	0.200		94.8	70-130			
Phenanthrene	0.174	0.020	"	0.200		86.9	70-130			
Pyrene	0.180	0.020	"	0.200		89.9	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	190		"	200		94.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			
Surrogate: Pyrene-d10	190		"	200		94.3	60-130			

**Matrix Spike (B311332-MS1)**

**Source: Y309252-01**

Prepared: 09/14/2023 Analyzed: 09/14/2023

1-Methylnaphthalene	0.204	0.002	mg/kg	0.200	ND	102	70-130			
2-Methylnaphthalene	0.190	0.002	"	0.200	ND	94.8	70-130			
Acenaphthene	0.179	0.020	"	0.200	ND	89.5	70-130			
Anthracene	0.150	0.020	"	0.200	0.0005	74.9	70-130			
Benzo (a) anthracene	0.175	0.005	"	0.200	0.002	86.2	70-130			
Benzo (a) pyrene	0.197	0.020	"	0.200	ND	98.5	70-130			
Benzo (b) fluoranthene	0.213	0.020	"	0.200	ND	107	70-130			
Benzo (g,h,i) perylene	0.215	0.020	"	0.200	ND	107	70-130			

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PSC 16-4/Freauff 33- O SA

**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3I1332 - EPA 3580**

<b>Matrix Spike (B3I1332-MS1)</b>		<b>Source: Y309252-01</b>			<b>Prepared: 09/14/2023 Analyzed: 09/14/2023</b>					
Benzo (k) fluoranthene	0.182	0.020	mg/kg	0.200	ND	90.8	70-130			
Chrysene	0.169	0.020	"	0.200	0.002	83.4	70-130			
Dibenz (a,h) anthracene	0.186	0.020	"	0.200	ND	92.9	70-130			
Fluoranthene	0.189	0.020	"	0.200	ND	94.3	70-130			
Fluorene	0.169	0.020	"	0.200	ND	84.4	70-130			
Indeno (1,2,3-cd) pyrene	0.207	0.020	"	0.200	ND	103	70-130			
Naphthalene	0.187	0.002	"	0.200	ND	93.4	70-130			
Phenanthrene	0.174	0.020	"	0.200	ND	86.8	70-130			
Pyrene	0.191	0.020	"	0.200	0.001	94.9	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	170		"	200		87.4	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			

<b>Matrix Spike Dup (B3I1332-MSD1)</b>		<b>Source: Y309252-01</b>			<b>Prepared: 09/14/2023 Analyzed: 09/14/2023</b>					
1-Methylnaphthalene	0.196	0.002	mg/kg	0.200	ND	97.8	70-130	4.06	20	
2-Methylnaphthalene	0.192	0.002	"	0.200	ND	95.9	70-130	1.17	20	
Acenaphthene	0.179	0.020	"	0.200	ND	89.6	70-130	0.0593	20	
Anthracene	0.165	0.020	"	0.200	0.0005	82.3	70-130	9.38	20	
Benzo (a) anthracene	0.178	0.005	"	0.200	0.002	88.1	70-130	2.12	20	
Benzo (a) pyrene	0.171	0.020	"	0.200	ND	85.3	70-130	14.4	20	
Benzo (b) fluoranthene	0.218	0.020	"	0.200	ND	109	70-130	2.37	20	
Benzo (g,h,i) perylene	0.231	0.020	"	0.200	ND	115	70-130	7.17	20	
Benzo (k) fluoranthene	0.178	0.020	"	0.200	ND	89.2	70-130	1.77	20	
Chrysene	0.169	0.020	"	0.200	0.002	83.8	70-130	0.562	20	
Dibenz (a,h) anthracene	0.185	0.020	"	0.200	ND	92.5	70-130	0.384	20	
Fluoranthene	0.206	0.020	"	0.200	ND	103	70-130	8.83	20	

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B311332 - EPA 3580

Matrix Spike Dup (B311332-MSD1)	Source: Y309252-01			Prepared: 09/14/2023 Analyzed: 09/14/2023						
Fluorene	0.184	0.020	mg/kg	0.200	ND	92.1	70-130	8.71	20	
Indeno (1,2,3-cd) pyrene	0.219	0.020	"	0.200	ND	109	70-130	5.65	20	
Naphthalene	0.198	0.002	"	0.200	ND	98.9	70-130	5.73	20	
Phenanthrene	0.179	0.020	"	0.200	ND	89.7	70-130	3.29	20	
Pyrene	0.200	0.020	"	0.200	0.001	99.4	70-130	4.61	20	
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	190		"	200		96.7	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			
Surrogate: Pyrene-d10	200		"	200		97.9	60-130			

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**Classical Chemistry Parameters - 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 B3I1503 - Saturated Paste Metals**

**Blank (B3I1503-BLK1)**

Prepared: 09/15/2023 Analyzed: 09/18/2023

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

**Duplicate (B3I1503-DUP1)**

Source: Y309285-01

Prepared: 09/15/2023 Analyzed: 09/18/2023

SAR	ND	0.0100	SAR		4.46				200	
Calcium PPM	74.0	10.0	mg/L		79.0			6.54	50	
Magnesium PPM	50.1	10.0	"		53.6			6.75	50	
Sodium PPM	198	10.0	"		209			5.48	50	

**Batch B3I1506 - DTPA Sorbitol Preparation**

**Blank (B3I1506-BLK1)**

Prepared: 09/15/2023 Analyzed: 09/19/2023

Boron	ND	0.100	mg/L							
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**Duplicate (B3I1506-DUP1)**

Source: Y309230-01

Prepared: 09/15/2023 Analyzed: 09/19/2023

Boron	3.04	0.102	mg/L		3.30			8.29	50	
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 Wheat Ridge CO 80033

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 Project Number: [none]  
 Project: KMG - PSC 16-4/Freauff 33- O SA

**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 B311510 - Saturated Paste pH/EC**

**Blank (B311510-BLK1)**

Prepared: 09/15/2023 Analyzed: 09/16/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B311510-DUP1)**

**Source: Y309285-01**

Prepared: 09/15/2023 Analyzed: 09/16/2023

Specific Conductance (EC)	1.98	0.00500	mmhos/cm	1.96	0.903	25
pH	8.01		pH Units	8.07	0.746	25

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PSC 16-4/Freauff 33- O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L705514 -</b>										
<b>DUP (L 91338-DUP)</b>		<b>Source: 91338</b>			Prepared: Analyzed: 09/20/2023					
Chromium, Hexavalent	ND	0.506	mg/Kg		<0.506		-	0	20	
<b>MS (L 91338-MS)</b>		<b>Source: 91338</b>			Prepared: Analyzed: 09/20/2023					
Chromium, Hexavalent	37.6	2.5	mg/Kg	39.8	<1.22	94	75-125			
<b>LCS (LCS)</b>		Prepared: Analyzed: 09/20/2023								
Chromium, Hexavalent	6.76	0.5	mg/Kg	8		85	75-125			
<b>LRB (LRB)</b>		Prepared: Analyzed: 09/20/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - PSC 16-4/Freauff 33- O SA

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L705512 -</b>										
<b>DUP (L 91312-DUP)</b>		<b>Source: 91312</b>			Prepared: Analyzed: 09/20/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
<b>MS (L 91312-MS)</b>		<b>Source: 91312</b>			Prepared: Analyzed: 09/20/2023					
Chromium, Hexavalent	38.6	2.5	mg/Kg	39.6	<1.22	97	75-125			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - PSC 16-4/Freauff 33- O SA

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**Notes and Definitions**

U Sample is Non-Detect.

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 Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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Jordan A. Bynon, Project Manager