



**Quandary Consultants**

**March 07, 2025**

**Brandon VanHorn**

**2252 Emerson St.**

**Denver CO 80205**

**Project Name - KMG - William Mayer 5-22A**

**Project Number - [none]**

Attached are your analytical results for KMG - William Mayer 5-22A received by Origins Laboratory February 26, 2025. This project is associated with Origins project number E5B0673-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory  
303.433.1322  
projectmanager@originslab.com



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



Quandary Consultants

2252 Emerson St.

Denver CO 80205

Brandon VanHorn

Project Number: [none]

Project: KMG - William Mayer 5-22A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B20@4'	E5B0673-01	Soil	February 26, 2025 14:15	02/26/2025 16:27
FL-B21@4'	E5B0673-02	Soil	February 26, 2025 14:17	02/26/2025 16:27

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# ORIGINS LABORATORY

Quandary Consultants  
2252 Emerson St.  
Denver CO 80205

Brandon VanHorn  
Project Number: [none]  
Project: KMG - William Mayer 5-22A

Origins Laboratory

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

### Sample Receipt Checklist

Origins Work Order: ESBO Client: Quandary  
 Checklist Completed by: WJW Client Project ID: William Mayer  
 Date/time completed: 2/28/25 Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1, A.1 °C (Describe)  
 Thermometer ID: 7007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <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? If yes, contact client and note in narrative.	<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 HNO <sub>3</sub> , HCl, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaOH, 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 be taken in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) AA

2/28/25  
Date/Time Reviewed

Origins Laboratory

*Bynon*

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Jordan A. Bynon, Project Manager



Quandary Consultants  
 2252 Emerson St.  
 Denver CO 80205

Brandon VanHorn  
 Project Number: [none]  
 Project: KMG - William Mayer 5-22A

FL-B20@4'

2/26/2025 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E5B0673-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.193		0.0988	mg/L	1	B5B2717	02/27/2025	03/02/2025	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5B2703	02/27/2025	02/28/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	84.7 %		50-150	"	"	"	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B2740	02/27/2025	03/03/2025	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	112 %		70-130	"	"	"	"	"	"
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Brandon VanHorn  
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 Project: KMG - William Mayer 5-22A

FL-B20@4'

2/26/2025 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
 E5B0673-01 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	96.2 %		70-130			B5B27 40	02/27/2025	03/03/2025	
Surrogate: 4-Bromofluorobenzene	95.6 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.60		0.499	meq/L	10	[CALC]	02/27/2025	02/28/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.32		0.435	"	"	"	"	"	

**PAH by 8270E SIM**

1-Methylnaphthalene	ND	0.00117	0.00355	mg/kg dry	1	2758982	03/04/2025	03/05/2025	U
2-Methylnaphthalene	ND	0.00117	0.00355	"	"	"	"	"	U
Acenaphthene	ND	0.00117	0.00355	"	"	"	"	"	U
Anthracene	ND	0.00117	0.00355	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00117	0.00355	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00117	0.00355	"	"	"	"	"	U
Benzo(b)fluoranthene	0.00177	0.00117	0.00355	"	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.00117	0.00355	"	"	"	"	"	U
Chrysene	ND	0.00117	0.00355	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00117	0.00355	"	"	"	"	"	U
Fluoranthene	ND	0.00117	0.00355	"	"	"	"	"	U

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2/26/2025 2:15:00PM

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

E5B0673-01 (Soil)

**PAH by 8270E SIM**

Fluorene	ND	0.00117	0.00355	mg/kg dry	1	2758982	03/04/2025	03/05/2025	U
Indeno(1,2,3-cd)pyrene	ND	0.00117	0.00355	"	"	"	"	"	U
Naphthalene	0.00426	0.00117	0.00355	"	"	"	"	"	"
Pyrene	0.00213	0.00117	0.00355	"	"	"	"	"	J

Surrogate: 5-alpha-Androstane 63 % 22-135 " " "

**pH in Soil by 9045D**

pH 8.30 pH Units 1 B5B2726 02/27/2025 02/28/2025

**SAR by 20B Saturated Paste**

SAR 2.17 0.0100 SAR 1 B5B2721 02/27/2025 02/28/2025

**Specific Conductance Mod. 9050A**

Specific Conductance (EC) 0.608 0.00500 mmhos/cm 1 B5B2726 02/27/2025 02/28/2025

**Table 915 metals by EPA 6020B**

Arsenic	3.08	0.266	mg/kg	10	B5B2708	02/27/2025	02/28/2025
Barium	65.9	9.16	"	"	"	"	"
Cadmium	0.226	0.0916	"	"	"	"	"

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2/26/2025 2:15:00PM

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

E5B0673-01 (Soil)

Table 915 metals by EPA 6020B

Copper	13.6		9.16	mg/kg	10	B5B2708	02/27/2025	02/28/2025	
Lead	11.9		0.916	"	"	"	"	"	"
Nickel	8.86		0.916	"	"	"	"	"	"
Selenium	ND		0.238	"	"	"	"	"	"
Silver	ND		0.0916	"	"	"	"	"	"
Zinc	45.3		33.9	"	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.134	0.335	mg/kg dry	1	2759494	03/04/2025	03/04/2025	U
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FL-B21@4'

2/26/2025 2:17:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E5B0673-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.234	0.101	mg/L	1	B5B2717	02/27/2025	03/02/2025	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B5B2703	02/27/2025	02/28/2025	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	85.2 %	50-150	"	"	"	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B5B2740	02/27/2025	03/04/2025	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	132 %	70-130	"	"	"	"	"	S-GC
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2/26/2025 2:17:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
 E5B0673-02 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	97.9 %		70-130			B5B27 40	02/27/2025	03/04/2025	
Surrogate: 4-Bromofluorobenzene	97.9 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.71		0.499	meq/L	10	[CALC]	02/27/2025	02/28/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.42		0.435	"	"	"	"	"	

**PAH by 8270E SIM**

1-Methylnaphthalene	0.00284	0.00117	0.00355	mg/kg dry	1	2758982	03/04/2025	03/05/2025	J
2-Methylnaphthalene	0.00674	0.00117	0.00355	"	"	"	"	"	"
Acenaphthene	ND	0.00117	0.00355	"	"	"	"	"	U
Anthracene	ND	0.00117	0.00355	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00117	0.00355	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00117	0.00355	"	"	"	"	"	U
Benzo(b)fluoranthene	0.00213	0.00117	0.00355	"	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.00117	0.00355	"	"	"	"	"	U
Chrysene	0.00177	0.00117	0.00355	"	"	"	"	"	J
Dibenzo(a,h)anthracene	ND	0.00117	0.00355	"	"	"	"	"	U
Fluoranthene	0.00213	0.00117	0.00355	"	"	"	"	"	J
Fluorene	ND	0.00117	0.00355	"	"	"	"	"	U

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FL-B21@4'

2/26/2025 2:17:00PM

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

E5B0673-02 (Soil)

**PAH by 8270E SIM**

Indeno(1,2,3-cd)pyrene	ND	0.00117	0.00355	mg/kg dry	1	2758982	03/04/2025	03/05/2025	U
Naphthalene	0.0103	0.00117	0.00355	"	"	"	"	"	"
Pyrene	0.00248	0.00117	0.00355	"	"	"	"	"	J

Surrogate: 5-alpha-Androstane 80 % 22-135 " " "

**pH in Soil by 9045D**

pH 8.29 pH Units 1 B5B2726 02/27/2025 02/28/2025

**SAR by 20B Saturated Paste**

SAR 2.15 0.0100 SAR 1 B5B2721 02/27/2025 02/28/2025

**Specific Conductance Mod. 9050A**

Specific Conductance (EC) 0.566 0.00500 mmhos/cm 1 B5B2726 02/27/2025 02/28/2025

**Table 915 metals by EPA 6020B**

Arsenic	2.81	0.271	mg/kg	10	B5B2708	02/27/2025	02/28/2025
Barium	59.7	9.36	"	"	"	"	"
Cadmium	0.211	0.0936	"	"	"	"	"
Copper	10.9	9.36	"	"	"	"	"

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FL-B21@4'

2/26/2025 2:17:00PM

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

E5B0673-02 (Soil)

Table 915 metals by EPA 6020B

Lead	10.1		0.936	mg/kg	10	B5B2708	02/27/2025	02/28/2025	
Nickel	8.14		0.936	"	"	"	"	"	
Selenium	ND		0.243	"	"	"	"	"	
Silver	ND		0.0936	"	"	"	"	"	
Zinc	41.0		34.6	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.126	0.315	mg/kg dry	1	2759494	03/04/2025	03/04/2025	U
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2252 Emerson St.

Denver CO 80205

Brandon VanHorn

Project Number: [none]

Project: KMG - William Mayer 5-22A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B5B2703 - EPA 3550B</b>										
<b>Blank (B5B2703-BLK1)</b>										
					Prepared: 02/27/2025 Analyzed: 02/28/2025					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	24		"	24.9		97.3	50-150			

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Brandon VanHorn

Project Number: [none]

Project: KMG - William Mayer 5-22A

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5B2703 - EPA 3550B

LCS (B5B2703-BS1)

Prepared: 02/27/2025 Analyzed: 02/28/2025

Diesel (C10-C28)	1030	50.0	mg/kg	1000		103	70-130			
Residual Range Organics (C28-C40)	1090	200	"	1000		109	70-130			
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

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Project Number: [none]

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B5B2703 - EPA 3550B</b>										
<b>Matrix Spike (B5B2703-MS1)</b>			<b>Source: E5B0663-01</b>			Prepared: 02/27/2025 Analyzed: 02/28/2025				
Diesel (C10-C28)	1080	50.0	mg/kg	1000	ND	108	70-130			
Residual Range Organics (C28-C40)	1150	200	"	1000	ND	115	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B5B2703 - EPA 3550B</b>										
<b>Matrix Spike Dup (B5B2703-MSD1)</b>			<b>Source: E5B0663-01</b>			Prepared: 02/27/2025 Analyzed: 02/28/2025				
Diesel (C10-C28)	926	50.0	mg/kg	1000	ND	92.6	70-130	15.2	35	
Residual Range Organics (C28-C40)	984	200	"	1000	ND	98.4	70-130	15.3	35	
Surrogate: o-Terphenyl	46		"	49.8		93.1	50-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B5B2740 - EPA 5030 (soil)</b>										
<b>Blank (B5B2740-BLK1)</b>										
Prepared: 02/27/2025 Analyzed: 03/03/2025										
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.5	70-130			

Origins Laboratory

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Brandon VanHorn  
 Project Number: [none]  
 Project: KMG - William Mayer 5-22A

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5B2740 - EPA 5030 (soil)

LCS (B5B2740-BS1)

Prepared: 02/27/2025 Analyzed: 03/03/2025

1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg				70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"				70-130			
Benzene	0.0905	0.00200	"				70-130			
Ethylbenzene	0.101	0.00200	"				70-130			
Naphthalene	0.0883	0.00380	"				70-130			
Toluene	0.0988	0.00200	"				70-130			
o-Xylene	0.102	0.00200	"				70-130			
m,p-Xylene	0.201	0.00400	"				70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5B2740 - EPA 5030 (soil)

Matrix Spike (B5B2740-MS1)

Source: E5B0673-01

Prepared: 02/27/2025 Analyzed: 03/03/2025

1,2,4-Trimethylbenzene	0.0832	0.00200	mg/kg		ND		70-130			
1,3,5-Trimethylbenzene	0.0837	0.00200	"		ND		70-130			
Benzene	0.0952	0.00200	"		ND		70-130			
Ethylbenzene	0.0865	0.00200	"		ND		70-130			
Naphthalene	0.0887	0.00380	"		0.00536		70-130			
Toluene	0.0924	0.00200	"		ND		70-130			
o-Xylene	0.0880	0.00200	"		ND		70-130			
m,p-Xylene	0.172	0.00400	"		ND		70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		108	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5B2740 - EPA 5030 (soil)

Matrix Spike Dup (B5B2740-MSD1)

Source: E5B0673-01

Prepared: 02/27/2025 Analyzed: 03/03/2025

1,2,4-Trimethylbenzene	0.0726	0.00200	mg/kg		ND		70-130	13.6	20	
1,3,5-Trimethylbenzene	0.0710	0.00200	"		ND		70-130	16.5	20	
Benzene	0.0886	0.00200	"		ND		70-130	7.20	20	
Ethylbenzene	0.0748	0.00200	"		ND		70-130	14.5	20	
Naphthalene	0.0883	0.00380	"		0.00536		70-130	0.384	20	
Toluene	0.0843	0.00200	"		ND		70-130	9.26	20	
o-Xylene	0.0786	0.00200	"		ND		70-130	11.2	20	
m,p-Xylene	0.148	0.00400	"		ND		70-130	14.9	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

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 Project: KMG - William Mayer 5-22A

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory**

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5B2708 - EPA 3050B**

**Blank (B5B2708-BLK1)**

Prepared: 02/27/2025 Analyzed: 02/28/2025

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

**LCS (B5B2708-BS1)**

Prepared: 02/27/2025 Analyzed: 02/28/2025

Arsenic	5.63	0.290	mg/kg	5.00		113	80-120			
Barium	567	10.0	"	500		113	80-120			
Cadmium	5.59	0.100	"	5.00		112	80-120			
Copper	54.8	10.0	"	50.0		110	80-120			
Lead	5.58	1.00	"	5.00		112	80-120			
Nickel	5.86	1.00	"	5.00		117	80-120			
Selenium	5.52	0.260	"	5.00		110	80-120			
Silver	5.46	0.100	"	5.00		109	80-120			
Zinc	54.8	37.0	"	50.0		110	80-120			

**Matrix Spike (B5B2708-MS1)**

Source: E5B0661-01

Prepared: 02/27/2025 Analyzed: 02/28/2025

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 Project: KMG - William Mayer 5-22A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5B2708 - EPA 3050B**

**Matrix Spike (B5B2708-MS1)**

Source: E5B0661-01

Prepared: 02/27/2025 Analyzed: 02/28/2025

Arsenic	6.28	0.269	mg/kg	4.63	1.24	109	75-125			
Barium	564	9.27	"	463	46.3	112	75-125			
Cadmium	5.29	0.0927	"	4.63	0.0793	112	75-125			
Copper	56.5	9.27	"	46.3	3.83	114	75-125			
Lead	9.53	0.927	"	4.63	4.19	115	75-125			
Nickel	8.93	0.927	"	4.63	3.61	115	75-125			
Selenium	5.38	0.241	"	4.63	0.127	113	75-125			
Silver	5.06	0.0927	"	4.63	0.0247	109	75-125			
Zinc	69.4	34.3	"	46.3	21.1	104	75-125			

**Matrix Spike Dup (B5B2708-MSD1)**

Source: E5B0661-01

Prepared: 02/27/2025 Analyzed: 02/28/2025

Arsenic	5.91	0.261	mg/kg	4.50	1.24	104	75-125	6.02	20	
Barium	533	9.00	"	450	46.3	108	75-125	5.56	20	
Cadmium	4.81	0.0900	"	4.50	0.0793	105	75-125	9.47	20	
Copper	48.3	9.00	"	45.0	3.83	98.8	75-125	15.7	20	
Lead	8.53	0.900	"	4.50	4.19	96.5	75-125	11.0	20	
Nickel	8.10	0.900	"	4.50	3.61	100	75-125	9.69	20	
Selenium	4.95	0.234	"	4.50	0.127	107	75-125	8.19	20	
Silver	4.47	0.0900	"	4.50	0.0247	98.8	75-125	12.4	20	
Zinc	66.3	33.3	"	45.0	21.1	100	75-125	4.67	20	

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**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5B2717 - DTPA Sorbitol Preparation**

**Blank (B5B2717-BLK1)**

Prepared: 02/27/2025 Analyzed: 03/02/2025

Boron ND 0.100 mg/L

**Duplicate (B5B2717-DUP1)**

Source: E5B0671-03

Prepared: 02/27/2025 Analyzed: 03/02/2025

Boron 0.0605 0.0985 mg/L 0.0564 7.03 50

**Batch B5B2721 - Saturated Paste Metals**

**Blank (B5B2721-BLK1)**

Prepared: 02/27/2025 Analyzed: 02/28/2025

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

**Duplicate (B5B2721-DUP1)**

Source: E5B0669-03

Prepared: 02/27/2025 Analyzed: 02/28/2025

Calcium PPM 37.7 10.0 mg/L 44.9 17.5 50

SAR ND 0.0100 SAR 0.488 200

Magnesium PPM 13.3 10.0 mg/L 15.3 14.1 50

Sodium PPM 14.2 10.0 " 14.8 4.06 50

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Project Number: [none]

Project: KMG - William Mayer 5-22A

**Saturated Paste - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5B2726 - Saturated Paste pH/EC**

**Blank (B5B2726-BLK1)**

Prepared: 02/27/2025 Analyzed: 02/28/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B5B2726-DUP1)**

**Source: E5B0669-03**

Prepared: 02/27/2025 Analyzed: 02/28/2025

Specific Conductance (EC) 0.415 0.00500 mmhos/cm 0.487 16.0 25

pH 8.03 pH Units 8.05 0.249 25

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 Project: KMG - William Mayer 5-22A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2758982 - SW846 3541

**BLANK (1206023312-BLK)**

Prepared: 03/04/2025 Analyzed: 03/04/2025

1-Methylnaphthalene	ND	0.00331	mg/kg	-	-	-	-	-	-	U
2-Methylnaphthalene	ND	0.00331	"	-	-	-	-	-	-	U
Acenaphthene	ND	0.00331	"	-	-	-	-	-	-	U
Anthracene	ND	0.00331	"	-	-	-	-	-	-	U
Benzo(b)fluoranthene	ND	0.00331	"	-	-	-	-	-	-	U
Benzo(a)pyrene	ND	0.00331	"	-	-	-	-	-	-	U
Chrysene	ND	0.00331	"	-	-	-	-	-	-	U
Dibenzo(a,h)anthracene	ND	0.00331	"	-	-	-	-	-	-	U
Fluoranthene	ND	0.00331	"	-	-	-	-	-	-	U
Fluorene	ND	0.00331	"	-	-	-	-	-	-	U
Indeno(1,2,3-cd)pyrene	ND	0.00331	"	-	-	-	-	-	-	U
Naphthalene	ND	0.00331	"	-	-	-	-	-	-	U
Pyrene	ND	0.00331	"	-	-	-	-	-	-	U
Benzo(a)anthracene	ND	0.00331	"	-	-	-	-	-	-	U
Benzo(k)fluoranthene	ND	0.00331	"	-	-	-	-	-	-	U

Surrogate: 5-alpha-Androstane

0.144

"

0.166

87

22-135

**LCS (1206023313-BKS)**

Prepared: 03/04/2025 Analyzed: 03/04/2025

1-Methylnaphthalene	0.250	0.00331	mg/kg	0.331	75	39-109
Fluorene	0.272	0.00331	"	0.331	82	37-115
Fluoranthene	0.284	0.00331	"	0.331	86	39-119
Dibenzo(a,h)anthracene	0.270	0.00331	"	0.331	81	38-132
Chrysene	0.271	0.00331	"	0.331	82	42-117
Benzo(k)fluoranthene	0.268	0.00331	"	0.331	81	40-122
Benzo(b)fluoranthene	0.286	0.00331	"	0.331	86	39-123
Benzo(a)pyrene	0.285	0.00331	"	0.331	86	39-127
Benzo(a)anthracene	0.284	0.00331	"	0.331	86	42-120

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Project: KMG - William Mayer 5-22A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2758982 - SW846 3541**

**LCS (1206023313-BKS)**

Prepared: 03/04/2025 Analyzed: 03/04/2025

Anthracene	0.290	0.00331	mg/kg	0.331		87	41-117			
Acenaphthene	0.251	0.00331	"	0.331		76	41-112			
2-Methylnaphthalene	0.259	0.00331	"	0.331		78	39-110			
Naphthalene	0.246	0.00331	"	0.331		74	38-109			
Pyrene	0.279	0.00331	"	0.331		84	38-117			
Indeno(1,2,3-cd)pyrene	0.272	0.00331	"	0.331		82	38-133			
Surrogate: 5-alpha-Androstane	0.136		"	0.166		82	22-135			

**LCSD (1206023314-BKSD)**

Prepared: 03/04/2025 Analyzed: 03/04/2025

Benzo(k)fluoranthene	0.272	0.00332	mg/kg	0.332		82	40-122	1	30	
Fluorene	0.282	0.00332	"	0.332		85	37-115	4	30	
Fluoranthene	0.289	0.00332	"	0.332		87	39-119	2	30	
Chrysenes	0.275	0.00332	"	0.332		83	42-117	2	30	
1-Methylnaphthalene	0.266	0.00332	"	0.332		80	39-109	6	30	
Benzo(b)fluoranthene	0.292	0.00332	"	0.332		88	39-123	2	30	
Benzo(a)pyrene	0.288	0.00332	"	0.332		87	39-127	1	30	
Benzo(a)anthracene	0.287	0.00332	"	0.332		86	42-120	1	30	
Anthracene	0.297	0.00332	"	0.332		89	41-117	2	30	
Acenaphthene	0.262	0.00332	"	0.332		79	41-112	4	30	
Naphthalene	0.263	0.00332	"	0.332		79	38-109	7	30	
Pyrene	0.284	0.00332	"	0.332		85	38-117	2	30	
Dibenzo(a,h)anthracene	0.272	0.00332	"	0.332		82	38-132	1	30	
2-Methylnaphthalene	0.277	0.00332	"	0.332		83	39-110	7	30	
Indeno(1,2,3-cd)pyrene	0.275	0.00332	"	0.332		83	38-133	1	30	
Surrogate: 5-alpha-Androstane	0.146		"	0.166		88	22-135			

**MS (1206023315 S)**

Source: 711172001

Prepared: 03/04/2025 Analyzed: 03/05/2025

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Brandon VanHorn  
 Project Number: [none]  
 Project: KMG - William Mayer 5-22A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2758982 - SW846 3541

**MS (1206023315 S)**

Source: 711172001

Prepared: 03/04/2025 Analyzed: 03/05/2025

Dibenzo(a,h)anthracene	0.266	0.00352	mg/kg dry	0.352	<0.00116	76	11-134			
Naphthalene	1.23	0.00352	"	0.352	0.510	204	16-126			E
Fluoranthene	0.286	0.00352	"	0.352	0.00490	80	14-136			
Pyrene	0.283	0.00352	"	0.352	0.00420	79	12-139			
Chrysene	0.300	0.00352	"	0.352	<0.00116	85	19-129			
Benzo(k)fluoranthene	0.264	0.00352	"	0.352	<0.00116	75	18-138			
Acenaphthene	0.224	0.00352	"	0.352	0.00945	61	17-129			
2-Methylnaphthalene	3.18	0.00352	"	0.352	1.51	471	15-132			E
Fluorene	0.378	0.00352	"	0.352	0.0710	87	16-134			
1-Methylnaphthalene	1.57	0.00352	"	0.352	0.664	257	15-129			E
Anthracene	0.286	0.00352	"	0.352	<0.00116	81	18-136			
Indeno(1,2,3-cd)pyrene	0.270	0.00352	"	0.352	<0.00116	76	13-134			
Benzo(a)anthracene	0.296	0.00352	"	0.352	<0.00116	84	20-132			
Benzo(a)pyrene	0.286	0.00352	"	0.352	<0.00116	81	16-133			
Benzo(b)fluoranthene	0.278	0.00352	"	0.352	<0.00116	79	14-136			

Surrogate: 5-alpha-Androstane

0.181

"

0.176

0.0875

103

22-135

**MSD (1206023316 SD)**

Source: 711172001

Prepared: 03/04/2025 Analyzed: 03/05/2025

Benzo(k)fluoranthene	0.269	0.00357	mg/kg dry	0.357	<0.00118	75	18-138	2	30	
Pyrene	0.296	0.00357	"	0.357	0.00420	82	12-139	4	30	
Indeno(1,2,3-cd)pyrene	0.277	0.00357	"	0.357	<0.00118	78	13-134	3	30	
Fluorene	0.390	0.00357	"	0.357	0.0710	89	16-134	3	30	
Fluoranthene	0.300	0.00357	"	0.357	0.00490	83	14-136	5	30	
Dibenzo(a,h)anthracene	0.273	0.00357	"	0.357	<0.00118	77	11-134	3	30	
Chrysene	0.315	0.00357	"	0.357	<0.00118	88	19-129	5	30	
Naphthalene	1.17	0.00357	"	0.357	0.510	185	16-126	5	30	E
Benzo(b)fluoranthene	0.292	0.00357	"	0.357	<0.00118	82	14-136	5	30	

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Denver CO 80205

Brandon VanHorn

Project Number: [none]

Project: KMG - William Mayer 5-22A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2758982 - SW846 3541

MSD (1206023316 SD)

Source: 711172001

Prepared: 03/04/2025 Analyzed: 03/05/2025

Benzo(a)pyrene	0.295	0.00357	mg/kg dry	0.357	<0.00118	83	16-133	3	30	
Benzo(a)anthracene	0.307	0.00357	"	0.357	<0.00118	86	20-132	3	30	
Anthracene	0.299	0.00357	"	0.357	<0.00118	84	18-136	4	30	
Acenaphthene	0.229	0.00357	"	0.357	0.00945	61	17-129	2	30	
1-Methylnaphthalene	1.58	0.00357	"	0.357	0.664	255	15-129	0	30	E
2-Methylnaphthalene	3.16	0.00357	"	0.357	1.51	461	15-132	0	30	E
Surrogate: 5-alpha-Androstane	0.185		"	0.178	0.0875	104	22-135			

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Brandon VanHorn

Project Number: [none]

Project: KMG - William Mayer 5-22A

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2759494 - SW846 3060A</b>										
<b>BLANK (1206024523-BLK)</b>										
					Prepared: 03/04/2025 Analyzed: 03/04/2025					
Hexavalent Chromium	ND	0.302	mg/kg							U
<b>LCS (1206024524-BKS)</b>										
					Prepared: 03/04/2025 Analyzed: 03/04/2025					
Hexavalent Chromium	3.16	0.316	mg/kg	3.16		100	80-120			
<b>DUP (1206024525 D)</b>										
					Source: E5B0673-01					
					Prepared: 03/04/2025 Analyzed: 03/04/2025					
Hexavalent Chromium	ND	0.334	mg/kg dry		<0.134		0-50	N/A	50	U
<b>MS (1206024526 S)</b>										
					Source: E5B0673-01					
					Prepared: 03/04/2025 Analyzed: 03/04/2025					
Hexavalent Chromium	1.84	0.335	mg/kg dry	3.35	<0.134	52.5	75-125			
<b>ILCS (1206024527-ILCS)</b>										
					Prepared: 03/04/2025 Analyzed: 03/04/2025					
Hexavalent Chromium	6.75	0.319	mg/kg	6.41		105	80-120			

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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.



Quandary Consultants

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Project Number: [none]

Project: KMG - William Mayer 5-22A

Notes and Definitions

- Ua Sample is Non-Detect.
  - U Result not detected above the detection limit
  - S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
  - J Greater than the detection limit but less than the reporting limit
  - E Concentration of the target analyte exceeds the instrument calibration range
  - ND Analyte NOT DETECTED at or above the reporting limit
  - RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

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