



Eagle Environmental Consulting, LLC

March 12, 2025

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Aggregate State 24 22
25-9HZ O SA

Project Number - [none]

Attached are your analytical results for KMG - Aggregate State 24 22 25-9HZ O SA received by Origins Laboratory February 26, 2025. This project is associated with Origins project number E5B0671-01.

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





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

Dan Coloccia
Project Number: [none]
Project: KMG - Aggregate State 24 22 25-9HZ O
SA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01@10'	E5B0671-01	Soil	February 26, 2025 13:55	02/26/2025 16:15
SS-N01@2'	E5B0671-02	Soil	February 26, 2025 14:48	02/26/2025 16:15
SS-N01@7'	E5B0671-03	Soil	February 26, 2025 14:08	02/26/2025 16:15
SS-E01@2'	E5B0671-04	Soil	February 26, 2025 14:52	02/26/2025 16:15
SS-E01@7'	E5B0671-05	Soil	February 26, 2025 14:20	02/26/2025 16:15
SS-S02@2'	E5B0671-06	Soil	February 26, 2025 14:54	02/26/2025 16:15
SS-S01@7'	E5B0671-07	Soil	February 26, 2025 14:29	02/26/2025 16:15
SS-W01@2'	E5B0671-08	Soil	February 26, 2025 14:58	02/26/2025 16:15
SS-W01@7'	E5B0671-09	Soil	February 26, 2025 14:42	02/26/2025 16:15

Origins Laboratory

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ORIGINS LABORATORY

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O SA

ORIGINS
LABORATORY

ESB00611


Page 1 of 1

Client: Eagle Environmental
 Address: 8000 W 44th Ave
 Telephone Number: Wheat Ridge Co 80033
 Email Address: dcoloccia@eagle-env.com
 Project Manager: D. Coloccia
 Project Name: Aggregate Site 24 22 25-1 H2 O SA
 Project Number:
 Collected By: CB
 Invoice Billing Info: Impacted (env)
 WWT/Waste Water:
 SWS/Surface Water:
 Key:
 M=Water
 G=Groundwater

Send to: (SC=Solid (ppb)) (AALI) (CAS) (LUM=Leung) (HCL=Hydrochloric) (HNO3=Nitric) (H2SO4=Sulfuric) (NaOH=Sodium Hydroxide)

Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis	Comments
SS-01 @ 1'	2/26/25	3:55	3	UNP	X	
SS-M01 @ 2'		14:48				
SS-M01 @ 7'		14:08				
SS-E01 @ 2'		14:52				
SS-E01 @ 7'		14:20				
SS-S01 @ 2'		14:54				
SS-S01 @ 7'		14:28				
SS-W01 @ 2'		14:58				
SS-W01 @ 7'		14:42				

Requisitioned By: Date: 2/26/25 Time: 16:15
 Received By: Date: 02/26/25 Time: 16:15
 Turnaround Time: 48 Hr 72 Hr 24 Hr 5 DAY
 Standard Expedited

Origins Laboratory


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Eagle Environmental Consulting, LLC
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Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Aggregate State 24 22 25-9HZ O
SA

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: ESB0671

Client: Eagle Environment

Client Project ID: Aggregate State 24 22

Checklist Completed by: JAR/NKM

Shipped Via: HD

Date/time completed: 2/26/25

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

Airbill #: N/A

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

Water

Other:

(Describe)

Cooler Number/Temperature: 1 / 1.2 °C

Thermometer ID: 1007

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

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

Reviewed by (Project Manager) AA

2/26/25
Date/Time Reviewed

Origins Laboratory



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O SA

SS-01@10'

2/26/2025 1:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0671-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0991	mg/L	1	B5B2716	02/27/2025	03/02/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	393		25.0	mg/kg	1	B5B2731	02/27/2025	02/28/2025	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	82.1 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	24.5		0.500	mg/kg	250	B5B2649	02/26/2025	03/01/2025	
1,3,5-Trimethylbenzene	7.21		0.0500	"	25	"	"	03/01/2025	
Benzene	6.71		0.0500	"	"	"	"	"	
Ethylbenzene	4.96		0.0500	"	"	"	"	"	
Toluene	44.4		0.500	"	250	"	"	03/01/2025	
Xylenes, total	106		0.500	"	"	"	"	03/01/2025	
Gasoline Range Hydrocarbons	2180		50.0	"	"	"	"	03/01/2025	

Surrogate: 1,2-Dichloroethane-d4	111 %		70-130			"	"	03/01/2025	
Surrogate: Toluene-d8	150 %		70-130			"	"	"	S-GC
Surrogate: 4-Bromofluorobenzene	96.9 %		70-130			"	"	"	

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2/26/2025 1:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0671-01 (Soil)

Metals by Saturated Paste by EPA 6010

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

PAH by 3541/8270

1-Methylnaphthalene	0.664	0.00350	0.00350	mg/kg dry	1	2758982	03/04/2025	03/05/2025	
2-Methylnaphthalene	1.74	0.0175	0.0175	"	5	"	"	"	
Acenaphthene	0.00945	0.00350	0.00350	"	1	"	"	"	
Anthracene	ND	0.00350	0.00350	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00350	0.00350	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00350	0.00350	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00350	0.00350	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00350	0.00350	"	"	"	"	"	U
Chrysene	ND	0.00350	0.00350	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00350	0.00350	"	"	"	"	"	U
Fluoranthene	0.00490	0.00350	0.00350	"	"	"	"	"	
Fluorene	0.0710	0.00350	0.00350	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00350	0.00350	"	"	"	"	"	U
Naphthalene	0.510	0.00350	0.00350	"	"	"	"	"	
Pyrene	0.00420	0.00350	0.00350	"	"	"	"	"	
Surrogate: 5-alpha-Androstane	50 %		22-135						

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SS-01@10'

2/26/2025 1:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0671-01 (Soil)

pH in Soil by 9045D

pH	7.90			pH Units	1	B5B2726	02/27/2025	02/28/2025	
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SAR by 20B Saturated Paste

SAR	0.694	0.0100		SAR	1	B5B2721	02/27/2025	02/28/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.128	0.00500		mmhos/cm	1	B5B2726	02/27/2025	02/28/2025	
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Table 915 metals by EPA 6020B

Arsenic	1.24	0.261		mg/kg	10	B5B2725	02/10/2025	02/28/2025	
Barium	31.7	9.01		"	"	"	"	"	
Cadmium	ND	0.0901		"	"	"	"	"	
Copper	ND	9.01		"	"	"	"	"	
Lead	2.42	0.901		"	"	"	"	"	
Nickel	2.24	0.901		"	"	"	"	"	
Selenium	ND	0.234		"	"	"	"	"	
Silver	ND	0.0901		"	"	"	"	"	
Zinc	ND	33.4		"	"	"	"	"	

Total Metals 7196A

Origins Laboratory

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SS-01@10'

2/26/2025 1:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
E5B0671-01 (Soil)

Total Metals 7196A

Hexavalent Chromium	ND	0.239	0.239	mg/kg dry	1	2759529	03/05/2025	03/06/2025	U
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Origins Laboratory

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O
 SA

SS-N01@2'

2/26/2025 2:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0671-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0988	mg/L	1	B5B2716	02/27/2025	03/02/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5B2731	02/27/2025	02/28/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: *o*-Terphenyl 64.8% 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B2649	02/26/2025	03/01/2025	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 119% 70-130 " " "

Origins Laboratory

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SS-N01@2'

2/26/2025 2:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0671-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	90.4 %		70-130			B5B26 49	02/26/2025	03/01/2025	
Surrogate: 4-Bromofluorobenzene	97.5 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.872		0.499	meq/L	10	[CALC]	02/27/2025	02/28/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 3541/8270

1-Methylnaphthalene	ND	0.00354	0.00354	mg/kg dry	1	2758982	03/04/2025	03/05/2025	U
2-Methylnaphthalene	ND	0.00354	0.00354	"	"	"	"	"	U
Acenaphthene	ND	0.00354	0.00354	"	"	"	"	"	U
Anthracene	ND	0.00354	0.00354	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00354	0.00354	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00354	0.00354	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00354	0.00354	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00354	0.00354	"	"	"	"	"	U
Chrysene	ND	0.00354	0.00354	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00354	0.00354	"	"	"	"	"	U
Fluoranthene	ND	0.00354	0.00354	"	"	"	"	"	U

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SS-N01@2'

2/26/2025 2:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
E5B0671-02 (Soil)

PAH by 3541/8270

Fluorene	ND	0.00354	0.00354	mg/kg dry	1	2758982	03/04/2025	03/05/2025	U
Indeno(1,2,3-cd)pyrene	ND	0.00354	0.00354	"	"	"	"	"	U
Naphthalene	ND	0.00354	0.00354	"	"	"	"	"	U
Pyrene	ND	0.00354	0.00354	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 56 % 22-135 " " "

pH in Soil by 9045D

pH 8.24 pH Units 1 B5B2726 02/27/2025 02/28/2025

SAR by 20B Saturated Paste

SAR 0.197 0.0100 SAR 1 B5B2721 02/27/2025 02/28/2025

Specific Conductance Mod. 9050A

Specific Conductance (EC) 0.146 0.00500 mmhos/cm 1 B5B2726 02/27/2025 02/28/2025

Table 915 metals by EPA 6020B

Arsenic 2.13 0.285 mg/kg 10 B5B2725 02/10/2025 02/28/2025
 Barium 46.5 9.83 " " " " "

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SS-N01@2'

2/26/2025 2:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0671-02 (Soil)

Table 915 metals by EPA 6020B

Cadmium	ND		0.0983	mg/kg	10	B5B2725	02/10/2025	02/28/2025	
Copper	ND		9.83	"	"	"	"	"	
Lead	6.41		0.983	"	"	"	"	"	
Nickel	4.66		0.983	"	"	"	"	"	
Selenium	ND		0.256	"	"	"	"	"	
Silver	ND		0.0983	"	"	"	"	"	
Zinc	ND		36.4	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.256	0.256	mg/kg dry	1	2759529	03/05/2025	03/06/2025	U
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Dan Coloccia
 Project Number: [none]
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 SA

SS-N01@7'

2/26/2025 2:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0671-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0982	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	B5B2731	02/27/2025	02/28/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: *o*-Terphenyl 65.7% 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B2649	02/26/2025	03/01/2025	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 118% 70-130 " " "

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SS-N01@7'

2/26/2025 2:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0671-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	90.3 %		70-130			B5B26 49	02/26/2025	03/01/2025	
Surrogate: 4-Bromofluorobenzene	98.5 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

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

PAH by 3541/8270

1-Methylnaphthalene	ND	0.00339	0.00339	mg/kg dry	1	2758982	03/04/2025	03/05/2025	U
2-Methylnaphthalene	ND	0.00339	0.00339	"	"	"	"	"	U
Acenaphthene	ND	0.00339	0.00339	"	"	"	"	"	U
Anthracene	ND	0.00339	0.00339	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00339	0.00339	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00339	0.00339	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00339	0.00339	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00339	0.00339	"	"	"	"	"	U
Chrysene	ND	0.00339	0.00339	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00339	0.00339	"	"	"	"	"	U
Fluoranthene	ND	0.00339	0.00339	"	"	"	"	"	U

Origins Laboratory

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O SA

SS-N01@7'

2/26/2025 2:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
E5B0671-03 (Soil)

PAH by 3541/8270

Fluorene	ND	0.00339	0.00339	mg/kg dry	1	2758982	03/04/2025	03/05/2025	U
Indeno(1,2,3-cd)pyrene	ND	0.00339	0.00339	"	"	"	"	"	U
Naphthalene	ND	0.00339	0.00339	"	"	"	"	"	U
Pyrene	ND	0.00339	0.00339	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 87% 22-135 " " "

pH in Soil by 9045D

pH 7.92 pH Units 1 B5B2726 02/27/2025 02/28/2025

SAR by 20B Saturated Paste

SAR 0.352 0.0100 SAR 1 B5B2721 02/27/2025 02/28/2025

Specific Conductance Mod. 9050A

Specific Conductance (EC) 0.103 0.00500 mmhos/cm 1 B5B2726 02/27/2025 02/28/2025

Table 915 metals by EPA 6020B

Arsenic 2.35 0.246 mg/kg 10 B5B2725 02/10/2025 02/28/2025
 Barium 39.8 8.48 " " " " "

Origins Laboratory

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O SA

SS-N01@7'

2/26/2025 2:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0671-03 (Soil)

Table 915 metals by EPA 6020B

Cadmium	ND		0.0848	mg/kg	10	B5B2725	02/10/2025	02/28/2025	
Copper	ND		8.48	"	"	"	"	"	"
Lead	3.38		0.848	"	"	"	"	"	"
Nickel	2.96		0.848	"	"	"	"	"	"
Selenium	ND		0.220	"	"	"	"	"	"
Silver	ND		0.0848	"	"	"	"	"	"
Zinc	ND		31.4	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.283	0.283	mg/kg dry	1	2759529	03/05/2025	03/06/2025	U
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Origins Laboratory

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O
 SA

SS-E01@2'

2/26/2025 2:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0671-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.102	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	B5B2731	02/27/2025	02/28/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: *o*-Terphenyl 60.6% 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B2649	02/26/2025	03/01/2025	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 117% 70-130 " " "

Origins Laboratory

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O
 SA

SS-E01@2'

2/26/2025 2:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0671-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	92.3 %		70-130			B5B26 49	02/26/2025	03/01/2025	
Surrogate: 4-Bromofluorobenzene	97.3 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.983		0.499	meq/L	10	[CALC]	02/27/2025	02/28/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 3541/8270

1-Methylnaphthalene	ND	0.00348	0.00348	mg/kg dry	1	2758982	03/04/2025	03/05/2025	U
2-Methylnaphthalene	ND	0.00348	0.00348	"	"	"	"	"	U
Acenaphthene	ND	0.00348	0.00348	"	"	"	"	"	U
Anthracene	ND	0.00348	0.00348	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00348	0.00348	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00348	0.00348	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00348	0.00348	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00348	0.00348	"	"	"	"	"	U
Chrysene	ND	0.00348	0.00348	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00348	0.00348	"	"	"	"	"	U
Fluoranthene	ND	0.00348	0.00348	"	"	"	"	"	U

Origins Laboratory

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O SA

SS-E01@2'
2/26/2025 2:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
E5B0671-04 (Soil)

PAH by 3541/8270

Fluorene	ND	0.00348	0.00348	mg/kg dry	1	2758982	03/04/2025	03/05/2025	U
Indeno(1,2,3-cd)pyrene	ND	0.00348	0.00348	"	"	"	"	"	U
Naphthalene	ND	0.00348	0.00348	"	"	"	"	"	U
Pyrene	ND	0.00348	0.00348	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 86 % 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 0.399 0.0100 SAR 1 B5B2721 02/27/2025 02/28/2025

Specific Conductance Mod. 9050A

Specific Conductance (EC) 0.223 0.00500 mmhos/cm 1 B5B2726 02/27/2025 02/28/2025

Table 915 metals by EPA 6020B

Arsenic 2.88 0.258 mg/kg 10 B5B2725 02/10/2025 02/28/2025
 Barium 49.0 8.91 " " " " "

Origins Laboratory

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O SA

SS-E01@2'

2/26/2025 2:52:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0671-04 (Soil)

Table 915 metals by EPA 6020B

Cadmium	ND		0.0891	mg/kg	10	B5B2725	02/10/2025	02/28/2025	
Copper	ND		8.91	"	"	"	"	"	"
Lead	4.95		0.891	"	"	"	"	"	"
Nickel	4.79		0.891	"	"	"	"	"	"
Selenium	ND		0.232	"	"	"	"	"	"
Silver	ND		0.0891	"	"	"	"	"	"
Zinc	ND		33.0	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.263	0.263	mg/kg dry	1	2759529	03/05/2025	03/06/2025	U
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Origins Laboratory

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O SA

SS-E01@7'

2/26/2025 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0671-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0987	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	B5B2731	02/27/2025	02/28/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	62.5 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B2649	02/26/2025	03/01/2025	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	117 %		70-130			"	"	"	
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Origins Laboratory

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O SA

SS-E01@7'

2/26/2025 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0671-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	93.4 %		70-130			B5B26 49	02/26/2025	03/01/2025	
Surrogate: 4-Bromofluorobenzene	99.4 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.631		0.499	meq/L	10	[CALC]	02/27/2025	02/28/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.597		0.435	"	"	"	"	"	

PAH by 3541/8270

1-Methylnaphthalene	ND	0.00339	0.00339	mg/kg dry	1	2758982	03/04/2025	03/05/2025	U
2-Methylnaphthalene	ND	0.00339	0.00339	"	"	"	"	"	U
Acenaphthene	ND	0.00339	0.00339	"	"	"	"	"	U
Anthracene	ND	0.00339	0.00339	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00339	0.00339	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00339	0.00339	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00339	0.00339	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00339	0.00339	"	"	"	"	"	U
Chrysene	ND	0.00339	0.00339	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00339	0.00339	"	"	"	"	"	U
Fluoranthene	ND	0.00339	0.00339	"	"	"	"	"	U

Origins Laboratory

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O SA

SS-E01@7'

2/26/2025 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
E5B0671-05 (Soil)

PAH by 3541/8270

Fluorene	ND	0.00339	0.00339	mg/kg dry	1	2758982	03/04/2025	03/05/2025	U
Indeno(1,2,3-cd)pyrene	ND	0.00339	0.00339	"	"	"	"	"	U
Naphthalene	ND	0.00339	0.00339	"	"	"	"	"	U
Pyrene	ND	0.00339	0.00339	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 79% 22-135 " " "

pH in Soil by 9045D

pH 8.07 pH Units 1 B5B2726 02/27/2025 02/28/2025

SAR by 20B Saturated Paste

SAR 0.908 0.0100 SAR 1 B5B2721 02/27/2025 02/28/2025

Specific Conductance Mod. 9050A

Specific Conductance (EC) 0.196 0.00500 mmhos/cm 1 B5B2726 02/27/2025 02/28/2025

Table 915 metals by EPA 6020B

Arsenic	3.60	0.283	mg/kg	10	B5B2725	02/10/2025	02/28/2025
Barium	44.3	9.74	"	"	"	"	"
Cadmium	0.114	0.0974	"	"	"	"	"

Origins Laboratory

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O SA

SS-E01@7'

2/26/2025 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0671-05 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.74	mg/kg	10	B5B2725	02/10/2025	02/28/2025	
Lead	4.71		0.974	"	"	"	"	"	
Nickel	4.35		0.974	"	"	"	"	"	
Selenium	ND		0.253	"	"	"	"	"	
Silver	ND		0.0974	"	"	"	"	"	
Zinc	ND		36.1	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.270	0.270	mg/kg dry	1	2759529	03/05/2025	03/06/2025	U
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Origins Laboratory

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O
 SA

SS-S02@2'

2/26/2025 2:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E5B0671-06 (Soil)**

Boron (DTPA Sorbitol)

Boron	ND		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	B5B2731	02/27/2025	02/28/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	64.2 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B2649	02/26/2025	03/01/2025	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	116 %		70-130			"	"	"	
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Origins Laboratory

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O SA

SS-S02@2'

2/26/2025 2:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0671-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	92.9 %		70-130			B5B26 49	02/26/2025	03/01/2025	
Surrogate: 4-Bromofluorobenzene	99.2 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.748		0.499	meq/L	10	[CALC]	02/27/2025	02/28/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 3541/8270

1-Methylnaphthalene	ND	0.00348	0.00348	mg/kg dry	1	2758982	03/04/2025	03/05/2025	U
2-Methylnaphthalene	ND	0.00348	0.00348	"	"	"	"	"	U
Acenaphthene	ND	0.00348	0.00348	"	"	"	"	"	U
Anthracene	ND	0.00348	0.00348	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00348	0.00348	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00348	0.00348	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00348	0.00348	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00348	0.00348	"	"	"	"	"	U
Chrysene	ND	0.00348	0.00348	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00348	0.00348	"	"	"	"	"	U
Fluoranthene	ND	0.00348	0.00348	"	"	"	"	"	U

Origins Laboratory

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O SA

SS-S02@2'

2/26/2025 2:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC
 E5B0671-06 (Soil)**

PAH by 3541/8270

Fluorene	ND	0.00348	0.00348	mg/kg dry	1	2758982	03/04/2025	03/05/2025	U
Indeno(1,2,3-cd)pyrene	ND	0.00348	0.00348	"	"	"	"	"	U
Naphthalene	ND	0.00348	0.00348	"	"	"	"	"	U
Pyrene	ND	0.00348	0.00348	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 57% 22-135 " " "

pH in Soil by 9045D

pH	7.63			pH Units	1	B5B2726	02/27/2025	02/28/2025	
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SAR by 20B Saturated Paste

SAR	0.282		0.0100	SAR	1	B5B2721	02/27/2025	02/28/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.188		0.00500	mmhos/cm	1	B5B2726	02/27/2025	02/28/2025	
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Table 915 metals by EPA 6020B

Arsenic	1.92		0.258	mg/kg	10	B5B2725	02/10/2025	02/28/2025	
Barium	42.1		8.91	"	"	"	"	"	

Origins Laboratory

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O SA

SS-S02@2'

2/26/2025 2:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0671-06 (Soil)

Table 915 metals by EPA 6020B

Cadmium	ND		0.0891	mg/kg	10	B5B2725	02/10/2025	02/28/2025	
Copper	ND		8.91	"	"	"	"	"	
Lead	3.97		0.891	"	"	"	"	"	
Nickel	3.78		0.891	"	"	"	"	"	
Selenium	ND		0.232	"	"	"	"	"	
Silver	ND		0.0891	"	"	"	"	"	
Zinc	ND		33.0	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.313	0.313	mg/kg dry	1	2759529	03/05/2025	03/06/2025	U
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Origins Laboratory

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O SA

SS-S01@7'

2/26/2025 2:29:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0671-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.131		0.0981	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	B5B2731	02/27/2025	02/28/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	61.1 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B2649	02/26/2025	03/01/2025	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	119 %		70-130			"	"	"	
Surrogate: Toluene-d8	92.5 %		70-130			"	"	"	

Origins Laboratory

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O
 SA

SS-S01@7'

2/26/2025 2:29:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0671-07 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene 100 % 70-130 B5B26 49 02/26/2025 03/01/2025

Metals by Saturated Paste by EPA 6010

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Calcium	1.04	0.499	meq/L	10	[CALC]		02/27/2025	02/28/2025	
Magnesium	ND	0.823	"	"	"	"	"	"	
Sodium	0.607	0.435	"	"	"	"	"	"	

PAH by 3541/8270

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
1-Methylnaphthalene	ND	0.00361	0.00361	mg/kg dry	1	2758982	03/04/2025	03/05/2025	U
2-Methylnaphthalene	ND	0.00361	0.00361	"	"	"	"	"	U
Acenaphthene	ND	0.00361	0.00361	"	"	"	"	"	U
Anthracene	ND	0.00361	0.00361	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00361	0.00361	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00361	0.00361	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00361	0.00361	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00361	0.00361	"	"	"	"	"	U
Chrysene	ND	0.00361	0.00361	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00361	0.00361	"	"	"	"	"	U
Fluoranthene	ND	0.00361	0.00361	"	"	"	"	"	U
Fluorene	ND	0.00361	0.00361	"	"	"	"	"	U

Origins Laboratory

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O SA

SS-S01@7'

2/26/2025 2:29:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
E5B0671-07 (Soil)

PAH by 3541/8270

Indeno(1,2,3-cd)pyrene	ND	0.00361	0.00361	mg/kg dry	1	2758982	03/04/2025	03/05/2025	U
Naphthalene	ND	0.00361	0.00361	"	"	"	"	"	U
Pyrene	ND	0.00361	0.00361	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 86 % 22-135 " " "

pH in Soil by 9045D

pH 8.32 pH Units 1 B5B2726 02/27/2025 02/28/2025

SAR by 20B Saturated Paste

SAR 0.722 0.0100 SAR 1 B5B2721 02/27/2025 02/28/2025

Specific Conductance Mod. 9050A

Specific Conductance (EC) 0.251 0.00500 mmhos/cm 1 B5B2726 02/27/2025 02/28/2025

Table 915 metals by EPA 6020B

Arsenic	2.71	0.247	mg/kg	10	B5B2725	02/10/2025	02/28/2025
Barium	41.8	8.51	"	"	"	"	"
Cadmium	ND	0.0851	"	"	"	"	"

Origins Laboratory

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O
 SA

SS-S01@7'

2/26/2025 2:29:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0671-07 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.51	mg/kg	10	B5B2725	02/10/2025	02/28/2025	
Lead	5.17		0.851	"	"	"	"	"	
Nickel	4.44		0.851	"	"	"	"	"	
Selenium	ND		0.221	"	"	"	"	"	
Silver	ND		0.0851	"	"	"	"	"	
Zinc	ND		31.5	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.265	0.265	mg/kg dry	1	2759529	03/05/2025	03/06/2025	U
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Origins Laboratory

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O SA

SS-W01@2'

2/26/2025 2:58:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0671-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0991	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	B5B2731	02/27/2025	02/28/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	61.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B2649	02/26/2025	03/01/2025	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	0.00234		0.00200	"	"	"	"	"	
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	117 %		70-130			"	"	"	
Surrogate: Toluene-d8	94.2 %		70-130			"	"	"	

Origins Laboratory

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O
 SA

SS-W01@2'

2/26/2025 2:58:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0671-08 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene 98.4 % 70-130 B5B26 49 02/26/2025 03/01/2025

Metals by Saturated Paste by EPA 6010

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

PAH by 3541/8270

1-Methylnaphthalene	ND	0.00366	0.00366	mg/kg dry	1	2758982	03/04/2025	03/05/2025	U
2-Methylnaphthalene	ND	0.00366	0.00366	"	"	"	"	"	U
Acenaphthene	ND	0.00366	0.00366	"	"	"	"	"	U
Anthracene	ND	0.00366	0.00366	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00366	0.00366	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00366	0.00366	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00366	0.00366	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00366	0.00366	"	"	"	"	"	U
Chrysene	ND	0.00366	0.00366	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00366	0.00366	"	"	"	"	"	U
Fluoranthene	ND	0.00366	0.00366	"	"	"	"	"	U
Fluorene	ND	0.00366	0.00366	"	"	"	"	"	U

Origins Laboratory

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O SA

SS-W01@2'

2/26/2025 2:58:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
E5B0671-08 (Soil)

PAH by 3541/8270

Indeno(1,2,3-cd)pyrene	ND	0.00366	0.00366	mg/kg dry	1	2758982	03/04/2025	03/05/2025	U
Naphthalene	ND	0.00366	0.00366	"	"	"	"	"	U
Pyrene	ND	0.00366	0.00366	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 77 % 22-135 " " "

pH in Soil by 9045D

pH 7.92 pH Units 1 B5B2726 02/27/2025 02/28/2025

SAR by 20B Saturated Paste

SAR 0.127 0.0100 SAR 1 B5B2721 02/27/2025 02/28/2025

Specific Conductance Mod. 9050A

Specific Conductance (EC) 0.0906 0.00500 mmhos/cm 1 B5B2726 02/27/2025 02/28/2025

Table 915 metals by EPA 6020B

Arsenic	1.84	0.280	mg/kg	10	B5B2725	02/10/2025	02/28/2025
Barium	38.6	9.67	"	"	"	"	"
Cadmium	ND	0.0967	"	"	"	"	"

Origins Laboratory

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O SA

SS-W01@2'

2/26/2025 2:58:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0671-08 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.67	mg/kg	10	B5B2725	02/10/2025	02/28/2025	
Lead	3.35		0.967	"	"	"	"	"	
Nickel	3.24		0.967	"	"	"	"	"	
Selenium	ND		0.251	"	"	"	"	"	
Silver	ND		0.0967	"	"	"	"	"	
Zinc	ND		35.8	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.274	0.274	mg/kg dry	1	2759529	03/05/2025	03/06/2025	U
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Origins Laboratory

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O
 SA

SS-W01@7'

2/26/2025 2:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0671-09 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0986	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	B5B2731	02/27/2025	02/28/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: *o*-Terphenyl 63.2% 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B2649	02/26/2025	03/01/2025	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	0.00214		0.00200	"	"	"	"	"	
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 115% 70-130
 Surrogate: Toluene-d8 93.3% 70-130

Origins Laboratory

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O SA

SS-W01@7'

2/26/2025 2:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0671-09 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene 100 % 70-130 B5B26 49 02/26/2025 03/01/2025

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	02/27/2025	02/28/2025	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	0.471	0.435	"	"	"	"	"	

PAH by 3541/8270

1-Methylnaphthalene	ND	0.00357	0.00357	mg/kg dry	1	2758982	03/04/2025	03/05/2025	U
2-Methylnaphthalene	ND	0.00357	0.00357	"	"	"	"	"	U
Acenaphthene	ND	0.00357	0.00357	"	"	"	"	"	U
Anthracene	ND	0.00357	0.00357	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00357	0.00357	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00357	0.00357	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00357	0.00357	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00357	0.00357	"	"	"	"	"	U
Chrysene	ND	0.00357	0.00357	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00357	0.00357	"	"	"	"	"	U
Fluoranthene	ND	0.00357	0.00357	"	"	"	"	"	U
Fluorene	ND	0.00357	0.00357	"	"	"	"	"	U

Origins Laboratory

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O SA

SS-W01@7'

2/26/2025 2:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
E5B0671-09 (Soil)

PAH by 3541/8270

Indeno(1,2,3-cd)pyrene	ND	0.00357	0.00357	mg/kg dry	1	2758982	03/04/2025	03/05/2025	U
Naphthalene	ND	0.00357	0.00357	"	"	"	"	"	U
Pyrene	ND	0.00357	0.00357	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 65 %

			22-135			"	"	"	
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pH in Soil by 9045D

pH	7.39			pH Units	1	B5B2726	02/27/2025	02/28/2025	
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SAR by 20B Saturated Paste

SAR	1.81		0.0100	SAR	1	B5B2721	02/27/2025	02/28/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0822		0.00500	mmhos/cm	1	B5B2726	02/27/2025	02/28/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.28		0.259	mg/kg	10	B5B2725	02/10/2025	02/28/2025	
Barium	45.7		8.93	"	"	"	"	"	
Cadmium	ND		0.0893	"	"	"	"	"	

Origins Laboratory

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O
 SA

SS-W01@7'

2/26/2025 2:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E5B0671-09 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.93	mg/kg	10	B5B2725	02/10/2025	02/28/2025	
Lead	3.84		0.893	"	"	"	"	"	
Nickel	3.45		0.893	"	"	"	"	"	
Selenium	ND		0.232	"	"	"	"	"	
Silver	ND		0.0893	"	"	"	"	"	
Zinc	ND		33.1	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.313	0.313	mg/kg dry	1	2759529	03/05/2025	03/06/2025	U
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Origins Laboratory

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O
 SA

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 B5B2649 - EPA 5030 (soil)

Blank (B5B2649-BLK1)

Prepared: 02/26/2025 Analyzed: 02/28/2025

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
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.8	70-130			

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O
 SA

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 B5B2649 - EPA 5030 (soil)

LCS (B5B2649-BS1)

Prepared: 02/26/2025 Analyzed: 02/28/2025

1,2,4-Trimethylbenzene	0.117	0.00200	mg/kg	0.100		117	70-130			
1,3,5-Trimethylbenzene	0.119	0.00200	"	0.100		119	70-130			
Benzene	0.100	0.00200	"	0.100		100	70-130			
Ethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Toluene	0.0984	0.00200	"	0.100		98.4	70-130			
o-Xylene	0.110	0.00200	"	0.100		110	70-130			
m,p-Xylene	0.218	0.00400	"	0.200		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		86.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	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 B5B2649 - EPA 5030 (soil)

Matrix Spike (B5B2649-MS1)

Source: E5B0669-01

Prepared: 02/26/2025 Analyzed: 03/03/2025

1,2,4-Trimethylbenzene	0.0950	0.00200	mg/kg	0.100	ND	95.0	70-130			
1,3,5-Trimethylbenzene	0.100	0.00200	"	0.100	ND	100	70-130			
Benzene	0.0965	0.00200	"	0.100	0.000740	95.8	70-130			
Ethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130			
Toluene	0.106	0.00200	"	0.100	ND	106	70-130			
o-Xylene	0.109	0.00200	"	0.100	ND	109	70-130			
m,p-Xylene	0.209	0.00400	"	0.200	ND	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	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 B5B2649 - EPA 5030 (soil)

Matrix Spike Dup (B5B2649-MSD1)

Source: E5B0669-01

Prepared: 02/26/2025 Analyzed: 03/03/2025

1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100	ND	108	70-130	12.7	20	
1,3,5-Trimethylbenzene	0.113	0.00200	"	0.100	ND	113	70-130	12.1	20	
Benzene	0.0997	0.00200	"	0.100	0.000740	99.0	70-130	3.30	20	
Ethylbenzene	0.113	0.00200	"	0.100	ND	113	70-130	5.86	20	
Toluene	0.106	0.00200	"	0.100	ND	106	70-130	0.452	20	
o-Xylene	0.114	0.00200	"	0.100	ND	114	70-130	4.66	20	
m,p-Xylene	0.224	0.00400	"	0.200	ND	112	70-130	6.92	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

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Dan Coloccia
 Project Number: [none]
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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
Batch B5B2731 - EPA 3550B										
Blank (B5B2731-BLK1)										
					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	17		"	24.9		67.3	50-150			

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 Project: KMG - Aggregate State 24 22 25-9HZ O SA

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 B5B2731 - EPA 3550B

LCS (B5B2731-BS1)

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

Diesel (C10-C28)	924	50.0	mg/kg	1000		92.4	70-130			
Residual Range Organics (C28-C40)	891	200	"	1000		89.1	70-130			
Surrogate: o-Terphenyl	47		"	49.8		95.3	50-150			

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 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O
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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
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Batch B5B2731 - EPA 3550B

Matrix Spike (B5B2731-MS1)

Source: E5B0669-01

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

Diesel (C10-C28)	944	50.0	mg/kg	1000	ND	94.4	70-130			
Residual Range Organics (C28-C40)	929	200	"	1000	ND	92.9	70-130			
Surrogate: o-Terphenyl	43		"	49.8		86.9	50-150			

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O
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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
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Batch B5B2731 - EPA 3550B

Matrix Spike Dup (B5B2731-MSD1)

Source: E5B0669-01

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

Diesel (C10-C28)	945	50.0	mg/kg	1000	ND	94.5	70-130	0.109	35	
Residual Range Organics (C28-C40)	936	200	"	1000	ND	93.6	70-130	0.797	35	
Surrogate: o-Terphenyl	44		"	49.8		87.7	50-150			

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 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O
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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
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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 B5B2725 - EPA 3050B

Blank (B5B2725-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 (B5B2725-BS1)

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

Arsenic	5.87	0.290	mg/kg	5.00		117	80-120			
Barium	576	10.0	"	500		115	80-120			
Cadmium	5.72	0.100	"	5.00		114	80-120			
Copper	58.5	10.0	"	50.0		117	80-120			
Lead	5.54	1.00	"	5.00		111	80-120			
Nickel	5.85	1.00	"	5.00		117	80-120			
Selenium	5.74	0.260	"	5.00		115	80-120			
Silver	5.80	0.100	"	5.00		116	80-120			
Zinc	57.7	37.0	"	50.0		115	80-120			

Matrix Spike (B5B2725-MS1)

Source: E5B0671-01

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

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 Project: KMG - Aggregate State 24 22 25-9HZ O SA

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 B5B2725 - EPA 3050B

Matrix Spike (B5B2725-MS1)

Source: E5B0671-01

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

Arsenic	7.09	0.255	mg/kg	4.39	1.24	133	75-125			QM-07
Barium	553	8.79	"	439	31.7	119	75-125			
Cadmium	4.97	0.0879	"	4.39	0.0297	112	75-125			
Copper	53.8	8.79	"	43.9	2.23	117	75-125			
Lead	8.29	0.879	"	4.39	2.42	133	75-125			QM-07
Nickel	8.23	0.879	"	4.39	2.24	136	75-125			QM-07
Selenium	4.85	0.229	"	4.39	0.0225	110	75-125			
Silver	4.99	0.0879	"	4.39	0.00541	113	75-125			
Zinc	64.6	32.5	"	43.9	10.4	123	75-125			

Matrix Spike Dup (B5B2725-MSD1)

Source: E5B0671-01

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

Arsenic	7.36	0.279	mg/kg	4.82	1.24	127	75-125	3.75	20	QM-07
Barium	611	9.63	"	482	31.7	120	75-125	10.0	20	
Cadmium	5.69	0.0963	"	4.82	0.0297	117	75-125	13.5	20	
Copper	60.2	9.63	"	48.2	2.23	120	75-125	11.3	20	
Lead	9.35	0.963	"	4.82	2.42	144	75-125	12.0	20	QM-07
Nickel	8.84	0.963	"	4.82	2.24	137	75-125	7.15	20	QM-07
Selenium	5.76	0.250	"	4.82	0.0225	119	75-125	17.1	20	
Silver	5.68	0.0963	"	4.82	0.00541	118	75-125	13.1	20	
Zinc	70.7	35.6	"	48.2	10.4	125	75-125	9.01	20	

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 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O SA

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 B5B2716 - DTPA Sorbitol Preparation

Blank (B5B2716-BLK1)

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

Boron ND 0.100 mg/L

Duplicate (B5B2716-DUP1)

Source: E5B0663-05

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

Boron 0.0685 0.0993 mg/L 0.0707 3.12 50

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 - Aggregate State 24 22 25-9HZ O
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Saturated Paste - Quality Control
Origins Laboratory

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

pH 8.03 pH Units 8.05 0.249 25

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

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 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O SA

PAH by 3541/8270 - 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

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

Chrysene	0.271	0.00331	mg/kg	0.331	82	42-117
Dibenzo(a,h)anthracene	0.270	0.00331	"	0.331	81	38-132
Fluoranthene	0.284	0.00331	"	0.331	86	39-119
Fluorene	0.272	0.00331	"	0.331	82	37-115
Indeno(1,2,3-cd)pyrene	0.272	0.00331	"	0.331	82	38-133
Pyrene	0.279	0.00331	"	0.331	84	38-117
Benzo(k)fluoranthene	0.268	0.00331	"	0.331	81	40-122
1-Methylnaphthalene	0.250	0.00331	"	0.331	75	39-109
Naphthalene	0.246	0.00331	"	0.331	74	38-109

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O
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PAH by 3541/8270 - 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

Benzo(a)pyrene	0.285	0.00331	mg/kg	0.331		86	39-127			
Benzo(a)anthracene	0.284	0.00331	"	0.331		86	42-120			
Anthracene	0.290	0.00331	"	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			
Benzo(b)fluoranthene	0.286	0.00331	"	0.331		86	39-123			
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	
Chrysene	0.275	0.00332	"	0.332		83	42-117	2	30	
Dibenzo(a,h)anthracene	0.272	0.00332	"	0.332		82	38-132	1	30	
Fluoranthene	0.289	0.00332	"	0.332		87	39-119	2	30	
Fluorene	0.282	0.00332	"	0.332		85	37-115	4	30	
Indeno(1,2,3-cd)pyrene	0.275	0.00332	"	0.332		83	38-133	1	30	
Naphthalene	0.263	0.00332	"	0.332		79	38-109	7	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	
Acenaphthene	0.262	0.00332	"	0.332		79	41-112	4	30	
2-Methylnaphthalene	0.277	0.00332	"	0.332		83	39-110	7	30	
1-Methylnaphthalene	0.266	0.00332	"	0.332		80	39-109	6	30	
Pyrene	0.284	0.00332	"	0.332		85	38-117	2	30	
Benzo(b)fluoranthene	0.292	0.00332	"	0.332		88	39-123	2	30	
Anthracene	0.297	0.00332	"	0.332		89	41-117	2	30	
Surrogate: 5-alpha-Androstane	0.146		"	0.166		88	22-135			

MS (1206023315 S)

Source: E5B0671-01

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

Origins Laboratory

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O
 SA

PAH by 3541/8270 - 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: E5B0671-01

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

Surrogate: 5-alpha-Androstane

0.181

"

0.176

0.0875

103

22-135

MSD (1206023316 SD)

Source: E5B0671-01

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

Chrysene	0.315	0.00357	mg/kg dry	0.357	<0.00118	88	19-129	5	30	
Dibenzo(a,h)anthracene	0.273	0.00357	"	0.357	<0.00118	77	11-134	3	30	
Fluoranthene	0.300	0.00357	"	0.357	0.00490	83	14-136	5	30	
Fluorene	0.390	0.00357	"	0.357	0.0710	89	16-134	3	30	
Indeno(1,2,3-cd)pyrene	0.277	0.00357	"	0.357	<0.00118	78	13-134	3	30	
Pyrene	0.296	0.00357	"	0.357	0.00420	82	12-139	4	30	
Benzo(k)fluoranthene	0.269	0.00357	"	0.357	<0.00118	75	18-138	2	30	
2-Methylnaphthalene	3.16	0.00357	"	0.357	1.51	461	15-132	0	30	E
Naphthalene	1.17	0.00357	"	0.357	0.510	185	16-126	5	30	E

Origins Laboratory

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Aggregate State 24 22 25-9HZ O SA

PAH by 3541/8270 - 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: E5B0671-01

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

Benzo(b)fluoranthene	0.292	0.00357	mg/kg dry	0.357	<0.00118	82	14-136	5	30	
Benzo(a)pyrene	0.295	0.00357	"	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	
1-Methylnaphthalene	1.58	0.00357	"	0.357	0.664	255	15-129	0	30	E
Acenaphthene	0.229	0.00357	"	0.357	0.00945	61	17-129	2	30	
Surrogate: 5-alpha-Androstane	0.185		"	0.178	0.0875	104	22-135			

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 Project Number: [none]
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 SA

Total Metals 7196A - 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 2759529 - SW846 3060A

BLANK (1206024613-BLK)

Prepared: 03/05/2025 Analyzed: 03/06/2025

Hexavalent Chromium	ND	0.353	mg/kg				-			U
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LCS (1206024614-BKS)

Prepared: 03/05/2025 Analyzed: 03/06/2025

Hexavalent Chromium	3.12	0.318	mg/kg	3.18		98.2	80-120			
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DUP (1206024615 D)

Source: E5B0671-01

Prepared: 03/05/2025 Analyzed: 03/06/2025

Hexavalent Chromium	ND	0.240	mg/kg dry		<0.0958		0-50	N/A	50	U
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MS (1206024616 S)

Source: E5B0671-01

Prepared: 03/05/2025 Analyzed: 03/06/2025

Hexavalent Chromium	2.14	0.240	mg/kg dry	2.40	<0.0959	87.2	75-125			
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DUP (1206024617 D)

Source: E5B0671-02

Prepared: 03/05/2025 Analyzed: 03/06/2025

Hexavalent Chromium	ND	0.256	mg/kg dry		<0.102		0-50	N/A	50	U
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MS (1206024618 S)

Source: E5B0671-02

Prepared: 03/05/2025 Analyzed: 03/06/2025

Hexavalent Chromium	2.18	0.256	mg/kg dry	2.56	<0.102	83.9	75-125			
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ILCS (1206024619-ILCS)

Prepared: 03/05/2025 Analyzed: 03/06/2025

Hexavalent Chromium	5.53	0.263	mg/kg	5.36		103	80-120			
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8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Aggregate State 24 22 25-9HZ O
SA

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