



**Eagle Environmental Consulting, LLC**

**Dan Coloccia**

**8000 W 44th Ave**

**Wheat Ridge CO 80033**

**September 06, 2024**

**Project Name - KMG - Dehaan V27-10,15 Facility    Project Number - [none]**

Attached are your analytical results for KMG - Dehaan V27-10,15 Facility received by Origins Laboratory, Inc. July 31, 2024. This project is associated with Origins project number Y407862-01.

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**

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP-B01@4'	Y407862-01	Soil	July 31, 2024 14:16	07/31/2024 16:20
SEP-B02@4'	Y407862-02	Soil	July 31, 2024 14:18	07/31/2024 16:20
SEP-B03@4'	Y407862-03	Soil	July 31, 2024 14:20	07/31/2024 16:20
SEP-B04@4'	Y407862-04	Soil	July 31, 2024 14:22	07/31/2024 16:20

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

# ORIGINS

ORIGINS WORK ORDER #

4407862

Page 1 of 1

LABORATORY INC

Client: Eagle Environmental (ONY)

Address: 8000 W 44th Ave

Wheat Ridge CO 80033

Telephone Number: 303 433 0479

Email Address: Dcoloccia@eagle-enviro.com

Project Manager: D. Coloccia

Project Name: Dehaan V27-10,15 Facility

Project Number: -

Collected By: JN

Invoice Billing Info: Initial

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCL= Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date	Time	Sampled	# of Containers	Matrix	Preservative	Analysis	Comments
1	SEP-801-04	7/31/24	1414	3	UNP	S	X	Initial	
2	SEP-802-04		1418						
3	SEP-803-04		1420						
4	SEP-804-04		1422						
5									
6									
7									
8									
9									
10									

Relinquished By: JN Date: 7/31/24 Time: 1420 Received By: JN Date: 7/31/24 Time: 1420

Temp Received: 5.4 Received On Ice? ☒ Yes ☐ No

Turnaround Time ☒ SAME DAY ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr

Origins Laboratory

Jefe Pellegrini

Jen Pellegrini For Jordan A. Bynon, Project Manager

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 440 7862

Client: Eagle

Client Project ID: Dehaan V27-10,15

Checklist Completed by: EH

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

Date/time completed: 7/31/24

Airbill #: N/A

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

Cooler Number/Temperature: 115M °C 1 °C 1 °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 1005

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

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

Reviewed by (Project Manager) EH

7/31/24  
Date/Time Reviewed

Origins Laboratory

*Jen Pellegrini*

Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

SEP-B01@4'

7/31/2024 2:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
Y407862-01 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.523	0.100	mg/L	1	B4H0113	08/01/2024	08/02/2024
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	611	25.0	mg/kg	1	B4G3149	07/31/2024	07/31/2024
Residual Range Organics (C28-C40)	269	100	"	"	"	"	"

Surrogate: o-Terphenyl	111 %	50-150	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	1.67	0.0500	mg/kg	25	B4G3151	07/31/2024	07/31/2024
1,3,5-Trimethylbenzene	0.558	0.0500	"	"	"	"	"
Benzene	0.243	0.00200	"	1	"	"	08/01/2024
Ethylbenzene	0.268	0.0500	"	25	"	"	07/31/2024
Toluene	0.750	0.0500	"	"	"	"	"
Xylenes, total	2.82	0.0500	"	"	"	"	"
Gasoline Range Hydrocarbons	91.6	5.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130	"	"	"
Surrogate: Toluene-d8	107 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	113 %	70-130	"	"	"

Origins Laboratory



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SEP-B01@4'

7/31/2024 2:16:00PM

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

Y407862-01 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	26.5	0.499	meq/L	10	[CALC]	08/01/2024	08/02/2024
Magnesium	7.25	0.823	"	"	"	"	"
Sodium	0.749	0.435	"	"	"	"	"

### PAH by EPA 8270E

1-Methylnaphthalene	0.389	0.002	mg/kg	1	B4G3145	07/31/2024	08/01/2024
2-Methylnaphthalene	0.890	0.002	"	"	"	"	"
Acenaphthene	ND	0.020	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	Ua
Fluorene	0.095	0.020	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	Ua
Naphthalene	0.189	0.002	"	"	"	"	"
Pyrene	ND	0.020	"	"	"	"	Ua
Surrogate: Fluorene-d10	107 %	60-130			"	"	"

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7/31/2024 2:16:00PM

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

### Y407862-01 (Soil)

### PAH by EPA 8270E

Surrogate: Anthracene-d10	97.4 %	60-130	B4G31 45	07/31/2024	08/01/2024
Surrogate: Pyrene-d10	96.7 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.9 %	60-130	"	"	"

### pH in Soil by 9045D

pH	7.83	pH Units	1	B4H0119	08/01/2024	08/02/2024
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### SAR by 20B Saturated Paste

SAR	0.182	0.0100	SAR	1	B4H0107	08/01/2024	08/02/2024
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.27	0.00500	mmhos/cm	1	B4H0119	08/01/2024	08/02/2024
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### Table 915 metals by EPA 6020B

Arsenic	4.35	0.247	mg/kg	10	B4G3140	07/31/2024	08/01/2024
Barium	121	8.51	"	"	"	"	"
Cadmium	0.151	0.0851	"	"	"	"	"
Copper	12.2	8.51	"	"	"	"	"
Lead	10.3	0.851	"	"	"	"	"
Nickel	11.7	0.851	"	"	"	"	"
Selenium	0.258	0.221	"	"	"	"	"

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7/31/2024 2:16:00PM

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

Y407862-01 (Soil)

### Table 915 metals by EPA 6020B

Silver	ND		0.0851	mg/kg	10	B4G3140	07/31/2024	08/01/2024	Ua
Zinc	44.3		31.5	"	"	"	"	"	

### Total Metals 7196A

Hexavalent Chromium	0.202	0.165	0.412	mg/kg dry	1	2665168	08/30/2024	09/04/2024	J
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Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

SEP-B02@4'

7/31/2024 2:18:00PM

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

Y407862-02 (Soil)

### Boron (DTPA Sorbitol)

Boron	0.912	0.0986	mg/L	1	B4H0113	08/01/2024	08/02/2024	
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### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G3149	07/31/2024	07/31/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	79.9 %	50-150	"	"	"
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### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00612	0.00200	mg/kg	1	B4G3151	07/31/2024	07/31/2024	
1,3,5-Trimethylbenzene	0.00206	0.00200	"	"	"	"	"	
Benzene	0.00314	0.00200	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	0.0111	0.00200	"	"	"	"	"	
Xylenes, total	0.0154	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.269	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	113 %	70-130	"	"	"

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Project: KMG - Dehaan V27-10,15 Facility

SEP-B02@4'

7/31/2024 2:18:00PM

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

Y407862-02 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	23.6	0.499	meq/L	10	[CALC]	08/01/2024	08/02/2024
Magnesium	9.02	0.823	"	"	"	"	"
Sodium	5.37	0.435	"	"	"	"	"

### PAH by EPA 8270E

1-Methylnaphthalene	0.011	0.002	mg/kg	1	B4G3145	07/31/2024	08/01/2024
2-Methylnaphthalene	0.021	0.002	"	"	"	"	"
Acenaphthene	ND	0.020	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	Ua
Naphthalene	0.003	0.002	"	"	"	"	"
Pyrene	ND	0.020	"	"	"	"	Ua
Surrogate: Fluorene-d10	98.3 %	60-130			"	"	"

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Project: KMG - Dehaan V27-10,15 Facility

SEP-B02@4'

7/31/2024 2:18:00PM

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

### Y407862-02 (Soil)

### PAH by EPA 8270E

Surrogate: Anthracene-d10	99.6 %	60-130	B4G31 45	07/31/2024	08/01/2024
Surrogate: Pyrene-d10	99.0 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	96.6 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.13	pH Units	1	B4H0119	08/01/2024	08/02/2024
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### SAR by 20B Saturated Paste

SAR	1.33	0.0100	SAR	1	B4H0107	08/01/2024	08/02/2024
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.49	0.00500	mmhos/cm	1	B4H0119	08/01/2024	08/02/2024
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### Table 915 metals by EPA 6020B

Arsenic	5.56	0.246	mg/kg	10	B4G3140	07/31/2024	08/01/2024
Barium	160	8.50	"	"	"	"	"
Cadmium	0.230	0.0850	"	"	"	"	"
Copper	17.6	8.50	"	"	"	"	"
Lead	14.2	0.850	"	"	"	"	"
Nickel	18.0	0.850	"	"	"	"	"
Selenium	0.484	0.221	"	"	"	"	"

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

SEP-B02@4'

7/31/2024 2:18:00PM

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

### Y407862-02 (Soil)

#### Table 915 metals by EPA 6020B

Silver	ND		0.0850	mg/kg	10	B4G3140	07/31/2024	08/01/2024	Ua
Zinc	70.3		31.4	"	"	"	"	"	

#### Total Metals 7196A

Hexavalent Chromium	ND	0.146	0.366	mg/kg dry	1	2665168	08/30/2024	09/04/2024	U
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Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

SEP-B03@4'

7/31/2024 2:20:00PM

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

Y407862-03 (Soil)

### Boron (DTPA Sorbitol)

Boron	1.22	0.0990	mg/L	1	B4H0113	08/01/2024	08/02/2024
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### DRO/ORO by EPA 8015D

Diesel (C10-C28)	31.0	25.0	mg/kg	1	B4G3149	07/31/2024	07/31/2024
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	Ua

Surrogate: o-Terphenyl	84.3 %	50-150	"	"	"
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### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0204	0.00200	mg/kg	1	B4G3151	07/31/2024	07/31/2024
1,3,5-Trimethylbenzene	0.00656	0.00200	"	"	"	"	"
Benzene	0.00362	0.00200	"	"	"	"	"
Ethylbenzene	0.00228	0.00200	"	"	"	"	"
Toluene	0.0143	0.00200	"	"	"	"	"
Xylenes, total	0.0320	0.00200	"	"	"	"	"
Gasoline Range Hydrocarbons	0.961	0.200	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	113 %	70-130	"	"	"

Origins Laboratory



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Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

SEP-B03@4'

7/31/2024 2:20:00PM

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

Y407862-03 (Soil)

### Metals by Saturated Paste by EPA 6010

Calcium	21.3	0.499	meq/L	10	[CALC]	08/01/2024	08/02/2024
Magnesium	13.5	0.823	"	"	"	"	"
Sodium	6.46	0.435	"	"	"	"	"

### PAH by EPA 8270E

1-Methylnaphthalene	0.025	0.002	mg/kg	1	B4G3145	07/31/2024	08/01/2024
2-Methylnaphthalene	0.051	0.002	"	"	"	"	"
Acenaphthene	ND	0.020	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	Ua
Naphthalene	0.007	0.002	"	"	"	"	"
Pyrene	ND	0.020	"	"	"	"	Ua
Surrogate: Fluorene-d10	100 %	60-130			"	"	"

Origins Laboratory



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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

SEP-B03@4'

7/31/2024 2:20:00PM

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

### Y407862-03 (Soil)

### PAH by EPA 8270E

Surrogate: Anthracene-d10	98.6 %	60-130	B4G31 45	07/31/2024	08/01/2024
Surrogate: Pyrene-d10	95.4 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	96.8 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.17	pH Units	1	B4H0119	08/01/2024	08/02/2024
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### SAR by 20B Saturated Paste

SAR	1.55	0.0100	SAR	1	B4H0107	08/01/2024	08/02/2024
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.68	0.00500	mmhos/cm	1	B4H0119	08/01/2024	08/02/2024
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### Table 915 metals by EPA 6020B

Arsenic	4.36	0.279	mg/kg	10	B4G3140	07/31/2024	08/01/2024
Barium	231	9.60	"	"	"	"	"
Cadmium	0.167	0.0960	"	"	"	"	"
Copper	14.2	9.60	"	"	"	"	"
Lead	12.5	0.960	"	"	"	"	"
Nickel	12.8	0.960	"	"	"	"	"
Selenium	0.756	0.250	"	"	"	"	"

Origins Laboratory



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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

SEP-B03@4'

7/31/2024 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**Y407862-03 (Soil)**

**Table 915 metals by EPA 6020B**

Silver	ND		0.0960	mg/kg	10	B4G3140	07/31/2024	08/01/2024	Ua
Zinc	49.8		35.5	"	"	"	"	08/01/2024	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.156	0.390	mg/kg dry	1	2665168	08/30/2024	09/04/2024	U
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Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

SEP-B04@4'

7/31/2024 2:22:00PM

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

### Y407862-04 (Soil)

### Boron (DTPA Sorbitol)

Boron	0.710	0.100	mg/L	1	B4H0113	08/01/2024	08/02/2024	
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### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G3149	07/31/2024	07/31/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	77.6 %	50-150	"	"	"
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### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00524	0.00200	mg/kg	1	B4G3151	07/31/2024	08/01/2024	
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Toluene	0.00378	0.00200	"	"	"	"	"	
Xylenes, total	0.00560	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.274	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130	"	"	"
Surrogate: Toluene-d8	103 %	70-130	"	"	"

Origins Laboratory



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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

SEP-B04@4'

7/31/2024 2:22:00PM

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

Y407862-04 (Soil)

### GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	113 %	70-130	B4G31 51	07/31/2024	08/01/2024
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### Metals by Saturated Paste by EPA 6010

Calcium	12.2	0.499	meq/L	10	[CALC]	08/01/2024	08/02/2024
Magnesium	7.62	0.823	"	"	"	"	"
Sodium	9.58	0.435	"	"	"	"	"

### PAH by EPA 8270E

1-Methylnaphthalene	0.008	0.002	mg/kg	1	B4G3145	07/31/2024	08/01/2024	
2-Methylnaphthalene	0.013	0.002	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua

Origins Laboratory



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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

SEP-B04@4'

7/31/2024 2:22:00PM

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

Y407862-04 (Soil)

### PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND	0.020	mg/kg	1	B4G3145	07/31/2024	08/01/2024	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	99.0 %	60-130	"	"	"
Surrogate: Anthracene-d10	99.3 %	60-130	"	"	"
Surrogate: Pyrene-d10	97.9 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.4 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.27	pH Units	1	B4H0119	08/01/2024	08/02/2024
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### SAR by 20B Saturated Paste

SAR	3.04	0.0100	SAR	1	B4H0107	08/01/2024	08/02/2024
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.24	0.00500	mmhos/cm	1	B4H0119	08/01/2024	08/02/2024
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### Table 915 metals by EPA 6020B

Arsenic	5.44	0.264	mg/kg	10	B4G3140	07/31/2024	08/01/2024
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Origins Laboratory



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC  
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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

SEP-B04@4'

7/31/2024 2:22:00PM

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

### Y407862-04 (Soil)

#### Table 915 metals by EPA 6020B

Barium	210	9.10	mg/kg	10	B4G3140	07/31/2024	08/01/2024	
Cadmium	0.221	0.0910	"	"	"	"	"	
Copper	16.1	9.10	"	"	"	"	"	
Lead	14.1	0.910	"	"	"	"	"	
Nickel	16.2	0.910	"	"	"	"	"	
Selenium	0.403	0.237	"	"	"	"	"	
Silver	ND	0.0910	"	"	"	"	"	Ua
Zinc	62.8	33.7	"	"	"	"	"	

#### Total Metals 7196A

Hexavalent Chromium	ND	0.0990	0.247	mg/kg dry	1	2665168	08/30/2024	09/04/2024	U
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Origins Laboratory



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Jen Pellegrini For Jordan A. Bynon, Project Manager



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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

Extractable Petroleum Hydrocarbons by 8015D - Quality Control  
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4G3149 - EPA 3550B										
Blank (B4G3149-BLK1)					Prepared: 07/31/2024 Analyzed: 07/31/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	23		"	24.9		92.2	50-150			

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

## 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 B4G3149 - EPA 3550B

### LCS (B4G3149-BS1)

Prepared: 07/31/2024 Analyzed: 07/31/2024

Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	70-130			
Residual Range Organics (C28-C40)	1070	200	"	1000		107	70-130			
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4G3149 - EPA 3550B										
<b>Matrix Spike (B4G3149-MS1)</b>		<b>Source: Y407861-01</b>			Prepared: 07/31/2024 Analyzed: 07/31/2024					
Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130			
Residual Range Organics (C28-C40)	1090	200	"	1000	ND	109	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

## 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 B4G3149 - EPA 3550B

Matrix Spike Dup (B4G3149-MSD1)		Source: Y407861-01			Prepared: 07/31/2024 Analyzed: 07/31/2024					
Diesel (C10-C28)	1040	50.0	mg/kg	1000	ND	104	70-130	2.76	35	
Residual Range Organics (C28-C40)	1130	200	"	1000	ND	113	70-130	2.93	35	
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4G3151 - EPA 5030 (soil)										
Blank (B4G3151-BLK1)					Prepared: 07/31/2024 Analyzed: 07/31/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		114	70-130			

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

## 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 B4G3151 - EPA 5030 (soil)

#### LCS (B4G3151-BS1)

Prepared: 07/31/2024 Analyzed: 07/31/2024

1,2,4-Trimethylbenzene	0.0880	0.00200	mg/kg	0.100		88.0	70-130			
1,3,5-Trimethylbenzene	0.0846	0.00200	"	0.100		84.6	70-130			
Benzene	0.0818	0.00200	"	0.100		81.8	70-130			
Ethylbenzene	0.0929	0.00200	"	0.100		92.9	70-130			
Naphthalene	0.0961	0.00380	"	0.100		96.1	70-130			
Toluene	0.0848	0.00200	"	0.100		84.8	70-130			
o-Xylene	0.0850	0.00200	"	0.100		85.0	70-130			
m,p-Xylene	0.181	0.00400	"	0.200		90.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		112	70-130			

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

## 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 B4G3151 - EPA 5030 (soil)

Matrix Spike (B4G3151-MS1)		Source: Y407861-01			Prepared: 07/31/2024 Analyzed: 07/31/2024					
1,2,4-Trimethylbenzene	0.0787	0.00200	mg/kg	0.100	ND	78.7	70-130			
1,3,5-Trimethylbenzene	0.0754	0.00200	"	0.100	ND	75.4	70-130			
Benzene	0.0723	0.00200	"	0.100	ND	72.3	70-130			
Ethylbenzene	0.0833	0.00200	"	0.100	ND	83.3	70-130			
Naphthalene	0.0854	0.00380	"	0.100	ND	85.4	70-130			
Toluene	0.0766	0.00200	"	0.100	ND	76.6	70-130			
o-Xylene	0.0833	0.00200	"	0.100	ND	83.3	70-130			
m,p-Xylene	0.168	0.00400	"	0.200	ND	83.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	70-130			

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

## 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 B4G3151 - EPA 5030 (soil)										
Matrix Spike Dup (B4G3151-MSD1)		Source: Y407861-01			Prepared: 07/31/2024 Analyzed: 07/31/2024					
1,2,4-Trimethylbenzene	0.0859	0.00200	mg/kg	0.100	ND	85.9	70-130	8.77	20	
1,3,5-Trimethylbenzene	0.0829	0.00200	"	0.100	ND	82.9	70-130	9.52	20	
Benzene	0.0764	0.00200	"	0.100	ND	76.4	70-130	5.51	20	
Ethylbenzene	0.0930	0.00200	"	0.100	ND	93.0	70-130	11.1	20	
Naphthalene	0.0964	0.00380	"	0.100	ND	96.4	70-130	12.1	20	
Toluene	0.0811	0.00200	"	0.100	ND	81.1	70-130	5.76	20	
o-Xylene	0.0934	0.00200	"	0.100	ND	93.4	70-130	11.5	20	
m,p-Xylene	0.185	0.00400	"	0.200	ND	92.6	70-130	10.1	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	70-130			

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

## 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 B4G3140 - EPA 3050B

#### Blank (B4G3140-BLK1)

Prepared: 07/31/2024 Analyzed: 08/01/2024

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

#### LCS (B4G3140-BS1)

Prepared: 07/31/2024 Analyzed: 08/01/2024

Arsenic	4.76	0.290	mg/kg	5.00		95.2	80-120
Barium	466	10.0	"	500		93.1	80-120
Cadmium	4.66	0.100	"	5.00		93.2	80-120
Copper	50.8	10.0	"	50.0		102	80-120
Lead	4.64	1.00	"	5.00		92.7	80-120
Nickel	4.99	1.00	"	5.00		99.7	80-120
Selenium	4.41	0.260	"	5.00		88.2	80-120
Silver	4.85	0.100	"	5.00		96.9	80-120
Zinc	49.3	37.0	"	50.0		98.6	80-120

#### Matrix Spike (B4G3140-MS1)

Source: Y407855-01

Prepared: 07/31/2024 Analyzed: 08/01/2024

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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8000 W 44th Ave  
Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

## 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 B4G3140 - EPA 3050B

Matrix Spike (B4G3140-MS1)		Source: Y407855-01			Prepared: 07/31/2024 Analyzed: 08/01/2024					
Arsenic	7.22	0.281	mg/kg	4.84	1.81	112	75-125			
Barium	594	9.68	"	484	55.1	111	75-125			
Cadmium	5.44	0.0968	"	4.84	0.123	110	75-125			
Copper	62.8	9.68	"	48.4	4.64	120	75-125			
Lead	9.48	0.968	"	4.84	4.54	102	75-125			
Nickel	9.68	0.968	"	4.84	4.10	115	75-125			
Selenium	5.40	0.252	"	4.84	0.0712	110	75-125			
Silver	5.63	0.0968	"	4.84	0.0641	115	75-125			
Zinc	73.2	35.8	"	48.4	18.2	114	75-125			
Matrix Spike Dup (B4G3140-MSD1)		Source: Y407855-01			Prepared: 07/31/2024 Analyzed: 08/01/2024					
Arsenic	6.71	0.269	mg/kg	4.64	1.81	105	75-125	7.38	20	
Barium	562	9.29	"	464	55.1	109	75-125	5.55	20	
Cadmium	5.09	0.0929	"	4.64	0.123	107	75-125	6.69	20	
Copper	59.0	9.29	"	46.4	4.64	117	75-125	6.14	20	
Lead	8.86	0.929	"	4.64	4.54	93.2	75-125	6.75	20	
Nickel	8.93	0.929	"	4.64	4.10	104	75-125	8.06	20	
Selenium	5.04	0.242	"	4.64	0.0712	107	75-125	6.97	20	
Silver	5.29	0.0929	"	4.64	0.0641	112	75-125	6.23	20	
Zinc	67.5	34.4	"	46.4	18.2	106	75-125	8.11	20	

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

## EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4G3145 - EPA 3580

#### Blank (B4G3145-BLK1)

Prepared: 07/31/2024 Analyzed: 08/01/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	200		ug/kg	200		99.1	60-130			
Surrogate: Anthracene-d10	200		"	200		98.3	60-130			
Surrogate: Pyrene-d10	180		"	200		90.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.4	60-130			

#### LCS (B4G3145-BS1)

Prepared: 07/31/2024 Analyzed: 08/01/2024

1-Methylnaphthalene	0.187	0.002	mg/kg	0.200		93.4	70-130			
2-Methylnaphthalene	0.186	0.002	"	0.200		93.0	70-130			
Acenaphthene	0.188	0.020	"	0.200		94.1	70-130			
Anthracene	0.180	0.020	"	0.200		89.9	70-130			

Origins Laboratory



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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

## EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4G3145 - EPA 3580

#### LCS (B4G3145-BS1)

Prepared: 07/31/2024 Analyzed: 08/01/2024

Benzo (a) anthracene	0.165	0.005	mg/kg	0.200		82.5	70-130			
Benzo (a) pyrene	0.200	0.020	"	0.200		100	70-130			
Benzo (b) fluoranthene	0.199	0.020	"	0.200		99.6	70-130			
Benzo (g,h,i) perylene	0.185	0.020	"	0.200		92.5	70-130			
Benzo (k) fluoranthene	0.199	0.020	"	0.200		99.5	70-130			
Chrysene	0.203	0.020	"	0.200		101	70-130			
Dibenz (a,h) anthracene	0.175	0.020	"	0.200		87.6	70-130			
Fluoranthene	0.185	0.020	"	0.200		92.6	70-130			
Fluorene	0.188	0.020	"	0.200		94.2	70-130			
Indeno (1,2,3-cd) pyrene	0.176	0.020	"	0.200		87.8	70-130			
Naphthalene	0.187	0.002	"	0.200		93.6	70-130			
Phenanthrene	0.184	0.020	"	0.200		92.1	70-130			
Pyrene	0.172	0.020	"	0.200		86.0	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.4	60-130			
Surrogate: Anthracene-d10	200		"	200		98.6	60-130			
Surrogate: Pyrene-d10	180		"	200		90.4	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

#### Matrix Spike (B4G3145-MS1)

Source: Y407860-01

Prepared: 07/31/2024 Analyzed: 08/01/2024

1-Methylnaphthalene	0.189	0.002	mg/kg	0.200	ND	94.4	70-130			
2-Methylnaphthalene	0.185	0.002	"	0.200	ND	92.5	70-130			
Acenaphthene	0.190	0.020	"	0.200	ND	95.0	70-130			
Anthracene	0.182	0.020	"	0.200	0.0006	90.7	70-130			
Benzo (a) anthracene	0.179	0.005	"	0.200	0.002	88.8	70-130			
Benzo (a) pyrene	0.212	0.020	"	0.200	ND	106	70-130			
Benzo (b) fluoranthene	0.203	0.020	"	0.200	0.0008	101	70-130			
Benzo (g,h,i) perylene	0.185	0.020	"	0.200	0.0007	92.3	70-130			

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

## EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4G3145 - EPA 3580

Matrix Spike (B4G3145-MS1)		Source: Y407860-01			Prepared: 07/31/2024 Analyzed: 08/01/2024					
Benzo (k) fluoranthene	0.194	0.020	mg/kg	0.200	0.0008	96.6	70-130			
Chrysene	0.183	0.020	"	0.200	0.001	90.6	70-130			
Dibenz (a,h) anthracene	0.185	0.020	"	0.200	0.001	92.1	70-130			
Fluoranthene	0.204	0.020	"	0.200	ND	102	70-130			
Fluorene	0.187	0.020	"	0.200	ND	93.3	70-130			
Indeno (1,2,3-cd) pyrene	0.193	0.020	"	0.200	0.002	95.4	70-130			
Naphthalene	0.189	0.002	"	0.200	ND	94.4	70-130			
Phenanthrene	0.186	0.020	"	0.200	ND	93.1	70-130			
Pyrene	0.173	0.020	"	0.200	ND	86.6	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		97.9	60-130			
Surrogate: Anthracene-d10	200		"	200		97.7	60-130			
Surrogate: Pyrene-d10	180		"	200		91.5	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

Matrix Spike Dup (B4G3145-MSD1)		Source: Y407860-01			Prepared: 07/31/2024 Analyzed: 08/01/2024					
1-Methylnaphthalene	0.186	0.002	mg/kg	0.200	ND	93.0	70-130	1.49	20	
2-Methylnaphthalene	0.186	0.002	"	0.200	ND	92.9	70-130	0.432	20	
Acenaphthene	0.188	0.020	"	0.200	ND	94.2	70-130	0.902	20	
Anthracene	0.185	0.020	"	0.200	0.0006	92.2	70-130	1.65	20	
Benzo (a) anthracene	0.177	0.005	"	0.200	0.002	87.7	70-130	1.31	20	
Benzo (a) pyrene	0.208	0.020	"	0.200	ND	104	70-130	1.70	20	
Benzo (b) fluoranthene	0.183	0.020	"	0.200	0.0008	91.1	70-130	10.2	20	
Benzo (g,h,i) perylene	0.183	0.020	"	0.200	0.0007	91.1	70-130	1.28	20	
Benzo (k) fluoranthene	0.192	0.020	"	0.200	0.0008	95.5	70-130	1.09	20	
Chrysene	0.182	0.020	"	0.200	0.001	90.4	70-130	0.261	20	
Dibenz (a,h) anthracene	0.182	0.020	"	0.200	0.001	90.3	70-130	1.90	20	
Fluoranthene	0.193	0.020	"	0.200	ND	96.6	70-130	5.29	20	

Origins Laboratory



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Jen Pellegrini For Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC  
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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

## EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4G3145 - EPA 3580

Matrix Spike Dup (B4G3145-MSD1)		Source: Y407860-01			Prepared: 07/31/2024 Analyzed: 08/01/2024					
Fluorene	0.189	0.020	mg/kg	0.200	ND	94.6	70-130	1.36	20	
Indeno (1,2,3-cd) pyrene	0.186	0.020	"	0.200	0.002	92.0	70-130	3.60	20	
Naphthalene	0.188	0.002	"	0.200	ND	93.8	70-130	0.626	20	
Phenanthrene	0.187	0.020	"	0.200	ND	93.3	70-130	0.150	20	
Pyrene	0.176	0.020	"	0.200	ND	88.1	70-130	1.69	20	
Surrogate: Fluorene-d10	200		ug/kg	200		98.8	60-130			
Surrogate: Anthracene-d10	200		"	200		99.4	60-130			
Surrogate: Pyrene-d10	190		"	200		92.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

## 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 B4H0107 - Saturated Paste Metals

##### Blank (B4H0107-BLK1)

Prepared: 08/01/2024 Analyzed: 08/02/2024

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

##### Duplicate (B4H0107-DUP1)

Source: Y407859-08

Prepared: 08/01/2024 Analyzed: 08/02/2024

Calcium PPM	16.9	10.0	mg/L		17.8			4.73	50	
SAR	ND	0.0100	SAR		2.58				200	Ua
Magnesium PPM	9.78	10.0	mg/L		10.1			3.52	50	Ua
Sodium PPM	50.2	10.0	"		55.0			9.20	50	

#### Batch B4H0113 - DTPA Sorbitol Preparation

##### Blank (B4H0113-BLK1)

Prepared: 08/01/2024 Analyzed: 08/02/2024

Boron	ND	0.100	mg/L							Ua
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##### Duplicate (B4H0113-DUP1)

Source: Y407859-09

Prepared: 08/01/2024 Analyzed: 08/02/2024

Boron	2.11	1.01	mg/L		2.01			5.02	50	
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Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

## Saturated Paste - Quality Control Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4H0119 - Saturated Paste pH/EC</b>										
<b>Blank (B4H0119-BLK1)</b>					Prepared: 08/01/2024 Analyzed: 08/02/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							Ua
<b>Duplicate (B4H0119-DUP1)</b>					<b>Source: Y407859-08</b> Prepared: 08/01/2024 Analyzed: 08/02/2024					
pH	8.45		pH Units		8.46			0.118	25	
Specific Conductance (EC)	0.392	0.00500	mmhos/cm		0.455			14.8	25	

Origins Laboratory



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Wheat Ridge CO 80033

Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2665168 - SW846 3060A</b>										
<b>BLANK (1205840008-BLK)</b>					Prepared: 08/30/2024 Analyzed: 09/04/2024					
Hexavalent Chromium	ND	0.385	mg/kg				-			U
<b>LCS (1205840009-BKS)</b>					Prepared: 08/30/2024 Analyzed: 09/04/2024					
Hexavalent Chromium	2.77	0.277	mg/kg	2.77		100	80-120			
<b>DUP (1205840010 D)</b>					Source: Y407862-01 Prepared: 08/30/2024 Analyzed: 09/04/2024					
Hexavalent Chromium	0.195	0.397	mg/kg dry		0.202		0-50	3.74	50	J
<b>MS (1205840011 S)</b>					Source: Y407862-01 Prepared: 08/30/2024 Analyzed: 09/04/2024					
Hexavalent Chromium	2.05	0.227	mg/kg dry	2.27	0.202	81.5	75-125			
<b>DUP (1205840012 D)</b>					Source: Y407862-02 Prepared: 08/30/2024 Analyzed: 09/04/2024					
Hexavalent Chromium	ND	0.329	mg/kg dry		<0.131		0-50	N/A	50	U
<b>MS (1205840013 S)</b>					Source: Y407862-02 Prepared: 08/30/2024 Analyzed: 09/04/2024					
Hexavalent Chromium	2.36	0.264	mg/kg dry	2.64	<0.106	87	75-125			
<b>ILCS (1205840014-ILCS)</b>					Prepared: 08/30/2024 Analyzed: 09/04/2024					
Hexavalent Chromium	8.48	0.400	mg/kg	8.05		105	80-120			

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Dan Coloccia  
Project Number: [none]  
Project: KMG - Dehaan V27-10,15 Facility

## Notes and Definitions

- Ua Sample is Non-Detect.
- U Result not detected above the detection limit
- J Greater than the detection limit but less than the reporting limit
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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