



July 31, 2024

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

**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 30, 2024. This project is associated with Origins project number Y407802-01.

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

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

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

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

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

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



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

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

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

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST-B01@3"	Y407802-01	Soil	July 30, 2024 12:00	07/30/2024 14:22
AST-B03@3"	Y407802-02	Soil	July 30, 2024 12:04	07/30/2024 14:22
PW-B01@5'	Y407802-03	Soil	July 30, 2024 12:08	07/30/2024 14:22
PW-W01@4'	Y407802-04	Soil	July 30, 2024 12:16	07/30/2024 14:22
AST-BG01@6"	Y407802-05	Soil	July 30, 2024 12:22	07/30/2024 14:22
AST-BG02@6"	Y407802-06	Soil	July 30, 2024 12:24	07/30/2024 14:22
AST-BG03@6"	Y407802-07	Soil	July 30, 2024 12:26	07/30/2024 14:22
PW-BG01@3'	Y407802-08	Soil	July 30, 2024 12:28	07/30/2024 14:22
PW-BG01@6'	Y407802-09	Soil	July 30, 2024 12:30	07/30/2024 14:22
PW-BG02@3'	Y407802-10	Soil	July 30, 2024 12:32	07/30/2024 14:22
PW-BG02@6'	Y407802-11	Soil	July 30, 2024 12:34	07/30/2024 14:22
PW-BG03@3'	Y407802-12	Soil	July 30, 2024 12:36	07/30/2024 14:22
PW-BG03@6'	Y407802-13	Soil	July 30, 2024 12:38	07/30/2024 14:22
PW-BG04@3'	Y407802-14	Soil	July 30, 2024 12:40	07/30/2024 14:22

Origins Laboratory, Inc.



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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
PW-BG04@6'	Y407802-15	Soil	July 30, 2024 12:42	07/30/2024 14:22

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

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

LABORATORY, INC

ORIGINS WORK ORDER #

407802

Page 1 of 2

Client: Eagle Environmental (Lx)

Project Manager: D. Coloccia

Key:

Address: 8000 W 44th Ave

Project Name: Dehaan V27-10,15 Facility

W=Water

Address: Wheat Ridge CO 80033

Project Number: Dehaan

GW=Groundwater

Telephone Number: 303 433 0479

Collected By: JW

SW=Surface Water

Email Address:

D.coloccia@eagle-env.com

Invoice/Billing Info:

WW=Waste Water

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

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis			Comments
							EC/SAR	pH	Boron Metals	
1	AST-B61e3'	7/20/14	1200	3	S	UNP	X			NAME CHANGED per client
2	AST-BD3e3'	1204								TEXT ON 7/30/24
3	PN-BD1e5'	1288								
4	PN-NB1e4'	1210								
5	AST-B61e6'	1222	2				X	X	X	
6	AST-B602e6'	1214								
7	AST-B603e6'	1226								
8	PN-B61e3'	1228								
9	PN-B601e6'	1230								
10	PN-B602e3'	1232								

Relinquished By: [Signature] Date: 7/30/24 Time: 1422  
 Received By: [Signature] Date: 7/30/24 Time: 1422

Temp Received: 3.1 Received On Ice?  Yes  No

Turnaround Time:  SAME DAY  24 Hr  48 Hr  72 Hr

Standard   Standard

Origins Laboratory, Inc.

*Jefe Pellegrini*

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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

# ORIGINS

LABORATORY, INC

ORIGINS WORK ORDER #

407802

Page 2 of 2

Client: Eagle Environmental (env)

Project Manager: D. Coloccia

Key:

Address: 8000 W 44th Ave

Project Name: Dehaan V27-10,15 Facility

Wheat Ridge CO 80033

Project Number: Dehaan -

W=Water  
 GW=Groundwater

Telephone Number: 303 433 0479

Collected By: JW

SW=Surface Water  
 WW=Waste Water

Email Address: DDcoloccia@eagle-environment.com

Invoice/Billing Info: Initial

L=Liquid

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

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis					Comments
							FC	SAR	HP	Boron	Metals	
1	PN-B602EV	7/30/24	1234	2	S	UNP	X	X	X	X		
2	PN-B603E3		1236									
3	PN-B603EV		1238									
4	PN-B604E3		1240									
5	PN-B604EV		1242									
6												
7												
8												
9												
10												

Relinquished By: [Signature] Date: 7/30/24 Time: 1422  
 Received By: [Signature] Date: 7/30/24 Time: 1422

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com | Temp Received - 3.1 | Received On Ice?  Yes  No

For Lab Sample Receiving Only:  Standard  96 Hrs  24 Hr  48 Hr  72 Hr

Origins Laboratory, Inc.

*Jefe Pellegrini*

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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 Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4407802

Client: Eagle  
 Client Project ID: Dehaan Dehaan

Checklist Completed by: JPP/ETH

Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A

Date/time completed: 7/30/12

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

Cooler Number/Temperature: 1 / 3.1 °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 7005

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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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) JPP Date/Time Reviewed 7/30/12

Origins Laboratory, Inc.



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

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

**AST-B01@3"**

**7/30/2024 12:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407802-01 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G3040	ADM	07/30/2024	07/30/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl 78.7 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G3041	JSM	07/30/2024	07/30/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 120 % 70-130 " " "  
 Surrogate: Toluene-d8 95.8 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 98.6 % 70-130 " " "

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G3043	Windo	07/30/2024	07/30/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

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

**AST-B01@3"**  
**7/30/2024 12:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407802-01 (Soil)**

**PAH by EPA 8270E**

Acenaphthene	ND	0.020	mg/kg	1	B4G3043	Windo	07/30/2024	07/30/2024	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	101 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	96.9 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	98.4 %	60-130			"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.2 %	60-130			"	"	"	"	

**Table 915 metals by EPA 6020B**

Arsenic	4.71	0.244	mg/kg	10	B4G3039	HJD	07/30/2024	07/31/2024	
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Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

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

**AST-B01@3"**

**7/30/2024 12:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.  
 Y407802-01 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	129	8.40	mg/kg	10	B4G3039	HJD	07/30/2024	07/31/2024	
Cadmium	0.187	0.0840	"	"	"	HJD	"	"	
Copper	14.8	8.40	"	"	"	HJD	"	"	
Lead	11.9	0.840	"	"	"	HJD	"	"	
Nickel	16.3	0.840	"	"	"	HJD	"	"	
Selenium	0.280	0.218	"	"	"	HJD	"	"	
Silver	ND	0.0840	"	"	"	HJD	"	"	U
Zinc	47.1	31.1	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

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

**AST-B03@3"**

**7/30/2024 12:04:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407802-02 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G3040	ADM	07/30/2024	07/30/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: *o*-Terphenyl 88.4 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G3041	JSM	07/30/2024	07/30/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 114 % 70-130 " " "  
 Surrogate: Toluene-d8 96.5 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 96.8 % 70-130 " " "

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G3043	Windo	07/30/2024	07/30/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

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

**AST-B03@3"**

**7/30/2024 12:04:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407802-02 (Soil)**

**PAH by EPA 8270E**

Acenaphthene	ND	0.020	mg/kg	1	B4G3043	Windo	07/30/2024	07/30/2024	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	101 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	97.3 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	100 %	60-130			"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %	60-130			"	"	"	"	

**Table 915 metals by EPA 6020B**

Arsenic	4.33	0.250	mg/kg	10	B4G3039	HJD	07/30/2024	07/31/2024	
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Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

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

**AST-B03@3"**

**7/30/2024 12:04:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407802-02 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	51.3	8.64	mg/kg	10	B4G3039	HJD	07/30/2024	07/31/2024	
Cadmium	0.100	0.0864	"	"	"	HJD	"	"	
Copper	9.82	8.64	"	"	"	HJD	"	"	
Lead	5.95	0.864	"	"	"	HJD	"	"	
Nickel	8.97	0.864	"	"	"	HJD	"	"	
Selenium	0.307	0.225	"	"	"	HJD	"	"	
Silver	ND	0.0864	"	"	"	HJD	"	"	U
Zinc	ND	32.0	"	"	"	HJD	"	"	U

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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

**PW-B01@5'**

**7/30/2024 12:08:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407802-03 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G3040	ADM	07/30/2024	07/30/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: *o*-Terphenyl 84.0 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G3041	JSM	07/30/2024	07/30/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 115 % 70-130 " " "  
 Surrogate: Toluene-d8 94.8 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 95.6 % 70-130 " " "

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G3043	Windo	07/30/2024	07/30/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U

Origins Laboratory, Inc.



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

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

**PW-B01@5'**

**7/30/2024 12:08:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407802-03 (Soil)**

**PAH by EPA 8270E**

Acenaphthene	ND	0.020	mg/kg	1	B4G3043	Windo	07/30/2024	07/30/2024	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	99.9 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	98.3 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	98.1 %	60-130			"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.8 %	60-130			"	"	"	"	

**Table 915 metals by EPA 6020B**

Arsenic	2.27	0.286	mg/kg	10	B4G3039	HJD	07/30/2024	07/31/2024	
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Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

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

PW-B01@5'

7/30/2024 12:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y407802-03 (Soil)

**Table 915 metals by EPA 6020B**

Barium	72.9	9.86	mg/kg	10	B4G3039	HJD	07/30/2024	07/31/2024	
Cadmium	0.156	0.0986	"	"	"	HJD	"	"	
Copper	ND	9.86	"	"	"	HJD	"	"	U
Lead	8.24	0.986	"	"	"	HJD	"	"	
Nickel	7.89	0.986	"	"	"	HJD	"	"	
Selenium	ND	0.256	"	"	"	HJD	"	"	U
Silver	ND	0.0986	"	"	"	HJD	"	"	U
Zinc	ND	36.5	"	"	"	HJD	"	"	U

Origins Laboratory, Inc.



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

**PW-W01@4'**

**7/30/2024 12:16:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407802-04 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G3040	ADM	07/30/2024	07/30/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: *o*-Terphenyl 80.4 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G3041	JSM	07/30/2024	07/30/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 117 % 70-130 " " "  
 Surrogate: Toluene-d8 97.0 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 96.8 % 70-130 " " "

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G3043	Windo	07/30/2024	07/30/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U

Origins Laboratory, Inc.



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

**PW-W01@4'**  
**7/30/2024 12:16:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407802-04 (Soil)**

**PAH by EPA 8270E**

Acenaphthene	ND	0.020	mg/kg	1	B4G3043	Windo	07/30/2024	07/30/2024	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	101 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	98.7 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	98.8 %	60-130			"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.4 %	60-130			"	"	"	"	

**Table 915 metals by EPA 6020B**

Arsenic	3.64	0.265	mg/kg	10	B4G3039	HJD	07/30/2024	07/31/2024	
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Dan Coloccia  
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 Project: KMG - Dehaan V27-10,15 Facility

PW-W01@4'

7/30/2024 12:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y407802-04 (Soil)

**Table 915 metals by EPA 6020B**

Barium	79.1	9.12	mg/kg	10	B4G3039	HJD	07/30/2024	07/31/2024	
Cadmium	0.112	0.0912	"	"	"	HJD	"	"	
Copper	ND	9.12	"	"	"	HJD	"	"	U
Lead	6.81	0.912	"	"	"	HJD	"	"	
Nickel	8.25	0.912	"	"	"	HJD	"	"	
Selenium	ND	0.237	"	"	"	HJD	"	"	U
Silver	ND	0.0912	"	"	"	HJD	"	"	U
Zinc	ND	33.7	"	"	"	HJD	"	"	U

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Dan Coloccia  
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 Project: KMG - Dehaan V27-10,15 Facility

**AST-BG01@6"**  
**7/30/2024 12:22:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407802-05 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	5.21	0.277	mg/kg	10	B4G3039	HJD	07/30/2024	07/31/2024	
Barium	314	9.56	"	"	"	HJD	"	"	
Cadmium	0.287	0.0956	"	"	"	HJD	"	"	
Copper	16.5	9.56	"	"	"	HJD	"	"	
Lead	16.7	0.956	"	"	"	HJD	"	"	
Nickel	16.1	0.956	"	"	"	HJD	"	"	
Selenium	0.370	0.249	"	"	"	HJD	"	"	
Silver	ND	0.0956	"	"	"	HJD	"	"	U
Zinc	60.8	35.4	"	"	"	HJD	"	"	

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Dan Coloccia  
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 Project: KMG - Dehaan V27-10,15 Facility

**AST-BG02@6"**  
**7/30/2024 12:24:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407802-06 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	3.67	0.264	mg/kg	10	B4G3039	HJD	07/30/2024	07/31/2024	
Barium	99.7	9.11	"	"	"	HJD	"	"	
Cadmium	0.143	0.0911	"	"	"	HJD	"	"	
Copper	13.2	9.11	"	"	"	HJD	"	"	
Lead	9.35	0.911	"	"	"	HJD	"	"	
Nickel	10.5	0.911	"	"	"	HJD	"	"	
Selenium	0.547	0.237	"	"	"	HJD	"	"	
Silver	ND	0.0911	"	"	"	HJD	"	"	U
Zinc	49.3	33.7	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
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 Project: KMG - Dehaan V27-10,15 Facility

**AST-BG03@6"**  
**7/30/2024 12:26:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407802-07 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	4.56	0.261	mg/kg	10	B4G3039	HJD	07/30/2024	07/31/2024	
Barium	164	8.98	"	"	"	HJD	"	"	
Cadmium	0.453	0.0898	"	"	"	HJD	"	"	
Copper	20.6	8.98	"	"	"	HJD	"	"	
Lead	20.3	0.898	"	"	"	HJD	"	"	
Nickel	16.4	0.898	"	"	"	HJD	"	"	
Selenium	0.257	0.234	"	"	"	HJD	"	"	
Silver	ND	0.0898	"	"	"	HJD	"	"	U
Zinc	121	33.2	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

**PW-BG01@3'**

**7/30/2024 12:28:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407802-08 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	4.62	0.279	mg/kg	10	B4G3039	HJD	07/30/2024	07/31/2024	
Barium	98.5	9.63	"	"	"	HJD	"	"	
Cadmium	0.568	0.0963	"	"	"	HJD	"	"	
Copper	21.4	9.63	"	"	"	HJD	"	"	
Lead	19.0	0.963	"	"	"	HJD	"	"	
Nickel	27.7	0.963	"	"	"	HJD	"	"	
Selenium	1.14	0.250	"	"	"	HJD	"	"	
Silver	ND	0.0963	"	"	"	HJD	"	"	U
Zinc	132	35.6	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

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

**PW-BG01@6'**

**7/30/2024 12:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407802-09 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	1.98	0.283	mg/kg	10	B4G3039	HJD	07/30/2024	07/31/2024	
Barium	81.0	9.75	"	"	"	HJD	"	"	
Cadmium	0.489	0.0975	"	"	"	HJD	"	"	
Copper	20.6	9.75	"	"	"	HJD	"	"	
Lead	24.9	0.975	"	"	"	HJD	"	"	
Nickel	15.5	0.975	"	"	"	HJD	"	"	
Selenium	ND	0.253	"	"	"	HJD	"	"	U
Silver	ND	0.0975	"	"	"	HJD	"	"	U
Zinc	45.3	36.1	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Dehaan V27-10,15 Facility

**PW-BG02@3'**

**7/30/2024 12:32:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407802-10 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	5.98	0.274	mg/kg	10	B4G3039	HJD	07/30/2024	07/31/2024	
Barium	98.7	9.44	"	"	"	HJD	"	"	
Cadmium	0.696	0.0944	"	"	"	HJD	"	"	
Copper	24.3	9.44	"	"	"	HJD	"	"	
Lead	22.8	0.944	"	"	"	HJD	"	"	
Nickel	22.9	0.944	"	"	"	HJD	"	"	
Selenium	0.501	0.246	"	"	"	HJD	"	"	
Silver	ND	0.0944	"	"	"	HJD	"	"	U
Zinc	115	34.9	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

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

**PW-BG02@6'**

**7/30/2024 12:34:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407802-11 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	3.71	0.264	mg/kg	10	B4G3039	HJD	07/30/2024	07/31/2024	
Barium	134	9.09	"	"	"	HJD	"	"	
Cadmium	0.338	0.0909	"	"	"	HJD	"	"	
Copper	20.7	9.09	"	"	"	HJD	"	"	
Lead	19.3	0.909	"	"	"	HJD	"	"	
Nickel	13.4	0.909	"	"	"	HJD	"	"	
Selenium	0.328	0.236	"	"	"	HJD	"	"	
Silver	ND	0.0909	"	"	"	HJD	"	"	U
Zinc	54.2	33.6	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Dehaan V27-10,15 Facility

**PW-BG03@3'**

**7/30/2024 12:36:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407802-12 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	4.86	0.274	mg/kg	10	B4G3039	HJD	07/30/2024	07/31/2024	
Barium	116	9.44	"	"	"	HJD	"	"	
Cadmium	0.394	0.0944	"	"	"	HJD	"	"	
Copper	16.7	9.44	"	"	"	HJD	"	"	
Lead	21.9	0.944	"	"	"	HJD	"	"	
Nickel	22.5	0.944	"	"	"	HJD	"	"	
Selenium	0.249	0.245	"	"	"	HJD	"	"	
Silver	ND	0.0944	"	"	"	HJD	"	"	U
Zinc	71.3	34.9	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

**PW-BG03@6'**

**7/30/2024 12:38:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407802-13 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	5.94	0.278	mg/kg	10	B4G3039	HJD	07/30/2024	07/31/2024	
Barium	64.2	9.57	"	"	"	HJD	"	"	
Cadmium	0.381	0.0957	"	"	"	HJD	"	"	
Copper	21.9	9.57	"	"	"	HJD	"	"	
Lead	19.8	0.957	"	"	"	HJD	"	"	
Nickel	18.7	0.957	"	"	"	HJD	"	"	
Selenium	ND	0.249	"	"	"	HJD	"	"	U
Silver	ND	0.0957	"	"	"	HJD	"	"	U
Zinc	79.8	35.4	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

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

**PW-BG04@3'**

**7/30/2024 12:40:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407802-14 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	4.75	0.261	mg/kg	10	B4G3039	HJD	07/30/2024	07/31/2024	
Barium	104	9.01	"	"	"	HJD	"	"	
Cadmium	0.521	0.0901	"	"	"	HJD	"	"	
Copper	16.0	9.01	"	"	"	HJD	"	"	
Lead	13.9	0.901	"	"	"	HJD	"	"	
Nickel	15.5	0.901	"	"	"	HJD	"	"	
Selenium	0.511	0.234	"	"	"	HJD	"	"	
Silver	ND	0.0901	"	"	"	HJD	"	"	U
Zinc	63.2	33.3	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

**PW-BG04@6'**

**7/30/2024 12:42:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407802-15 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	3.66	0.246	mg/kg	10	B4G3039	HJD	07/30/2024	07/31/2024	
Barium	126	8.49	"	"	"	HJD	"	"	
Cadmium	0.440	0.0849	"	"	"	HJD	"	"	
Copper	15.2	8.49	"	"	"	HJD	"	"	
Lead	14.7	0.849	"	"	"	HJD	"	"	
Nickel	15.3	0.849	"	"	"	HJD	"	"	
Selenium	0.241	0.221	"	"	"	HJD	"	"	
Silver	ND	0.0849	"	"	"	HJD	"	"	U
Zinc	51.1	31.4	"	"	"	HJD	"	"	

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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, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4G3040 - EPA 3550B</b>										
<b>Blank (B4G3040-BLK1)</b>										
					Prepared: 07/30/2024 Analyzed: 07/30/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		98.2	50-150			

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4G3040 - EPA 3550B**

**LCS (B4G3040-BS1)**

Prepared: 07/30/2024 Analyzed: 07/30/2024

Diesel (C10-C28)	976	50.0	mg/kg	1000		97.6	70-130			
Residual Range Organics (C28-C40)	1140	200	"	1000		114	70-130			
Surrogate: o-Terphenyl	56		"	49.8		112	50-150			

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4G3040 - EPA 3550B**

<b>Matrix Spike (B4G3040-MS1)</b>	<b>Source: Y407777-01</b>			<b>Prepared: 07/30/2024 Analyzed: 07/30/2024</b>						
Diesel (C10-C28)	5710	50.0	mg/kg	1000	4060	165	70-130			QM-07
Residual Range Organics (C28-C40)	13600	200	"	1000	10200	337	70-130			QM-07
Surrogate: o-Terphenyl	67		"	49.8		135	50-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4G3040 - EPA 3550B**

<b>Matrix Spike Dup (B4G3040-MSD1)</b>	<b>Source: Y407777-01</b>		<b>Prepared: 07/30/2024 Analyzed: 07/30/2024</b>							
Diesel (C10-C28)	5450	50.0	mg/kg	1000	4060	138	70-130	4.72	35	QM-07
Residual Range Organics (C28-C40)	13100	200	"	1000	10200	286	70-130	3.87	35	QM-07
Surrogate: o-Terphenyl	58		"	49.8		116	50-150			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4G3041 - EPA 5030 (soil)**

**Blank (B4G3041-BLK1)**

Prepared: 07/30/2024 Analyzed: 07/30/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	114		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	96.2		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	97.8		70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4G3041 - EPA 5030 (soil)**

**LCS (B4G3041-BS1)**

Prepared: 07/30/2024 Analyzed: 07/30/2024

1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100		106	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Benzene	0.108	0.00200	"	0.100		108	70-130			
Ethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Naphthalene	0.112	0.00380	"	0.100		112	70-130			
Toluene	0.106	0.00200	"	0.100		106	70-130			
o-Xylene	0.0996	0.00200	"	0.100		99.6	70-130			
m,p-Xylene	0.212	0.00400	"	0.200		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G3041 - EPA 5030 (soil)

Matrix Spike (B4G3041-MS1)	Source: Y407802-01			Prepared: 07/30/2024 Analyzed: 07/31/2024						
1,2,4-Trimethylbenzene	0.0704	0.00200	mg/kg	0.100	ND	70.4	70-130			
1,3,5-Trimethylbenzene	0.0663	0.00200	"	0.100	ND	66.3	70-130			QM-07
Benzene	0.0726	0.00200	"	0.100	ND	72.6	70-130			
Ethylbenzene	0.0627	0.00200	"	0.100	ND	62.7	70-130			QM-07
Naphthalene	0.0811	0.00380	"	0.100	ND	81.1	70-130			
Toluene	0.0700	0.00200	"	0.100	ND	70.0	70-130			
o-Xylene	0.0593	0.00200	"	0.100	ND	59.3	70-130			QM-07
m,p-Xylene	0.124	0.00400	"	0.200	ND	62.1	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		117	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

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 Project: KMG - Dehaan V27-10,15 Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G3041 - EPA 5030 (soil)

Matrix Spike Dup (B4G3041-MSD1)	Source: Y407802-01			Prepared: 07/30/2024 Analyzed: 07/31/2024						
1,2,4-Trimethylbenzene	0.0735	0.00200	mg/kg	0.100	ND	73.5	70-130	4.28	20	
1,3,5-Trimethylbenzene	0.0716	0.00200	"	0.100	ND	71.6	70-130	7.75	20	
Benzene	0.0732	0.00200	"	0.100	ND	73.2	70-130	0.824	20	
Ethylbenzene	0.0700	0.00200	"	0.100	ND	70.0	70-130	11.0	20	
Naphthalene	0.0864	0.00380	"	0.100	ND	86.4	70-130	6.31	20	
Toluene	0.0767	0.00200	"	0.100	ND	76.7	70-130	9.08	20	
o-Xylene	0.0724	0.00200	"	0.100	ND	72.4	70-130	20.0	20	
m,p-Xylene	0.142	0.00400	"	0.200	ND	71.0	70-130	13.4	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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 Project: KMG - Dehaan V27-10,15 Facility

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4G3039 - EPA 3050B**

**Blank (B4G3039-BLK1)**

Prepared: 07/30/2024 Analyzed: 07/31/2024

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

**LCS (B4G3039-BS1)**

Prepared: 07/30/2024 Analyzed: 07/31/2024

Arsenic	5.31	0.290	mg/kg	5.00		106	80-120
Barium	554	10.0	"	500		111	80-120
Cadmium	5.34	0.100	"	5.00		107	80-120
Copper	56.8	10.0	"	50.0		114	80-120
Lead	5.23	1.00	"	5.00		105	80-120
Nickel	5.51	1.00	"	5.00		110	80-120
Selenium	5.68	0.260	"	5.00		114	80-120
Silver	5.47	0.100	"	5.00		109	80-120
Zinc	52.1	37.0	"	50.0		104	80-120

**Matrix Spike (B4G3039-MS1)**

Source: Y407802-01

Prepared: 07/30/2024 Analyzed: 07/31/2024

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4G3039 - EPA 3050B**

<b>Matrix Spike (B4G3039-MS1)</b>		<b>Source: Y407802-01</b>			Prepared: 07/30/2024 Analyzed: 07/31/2024					
Arsenic	8.62	0.279	mg/kg	4.82	4.71	81.2	75-125			
Barium	576	9.64	"	482	129	92.8	75-125			
Cadmium	5.30	0.0964	"	4.82	0.187	106	75-125			
Copper	64.5	9.64	"	48.2	14.8	103	75-125			
Lead	10.7	0.964	"	4.82	11.9	NR	75-125			QM-07
Nickel	14.2	0.964	"	4.82	16.3	NR	75-125			QM-07
Selenium	5.88	0.251	"	4.82	0.280	116	75-125			
Silver	5.28	0.0964	"	4.82	0.0336	109	75-125			
Zinc	72.4	35.7	"	48.2	47.1	52.5	75-125			QM-07

<b>Matrix Spike Dup (B4G3039-MSD1)</b>		<b>Source: Y407802-01</b>			Prepared: 07/30/2024 Analyzed: 07/31/2024					
Arsenic	8.26	0.266	mg/kg	4.59	4.71	77.3	75-125	4.32	20	
Barium	569	9.18	"	459	129	96.0	75-125	1.16	20	
Cadmium	5.14	0.0918	"	4.59	0.187	108	75-125	3.05	20	
Copper	63.8	9.18	"	45.9	14.8	107	75-125	1.18	20	
Lead	10.7	0.918	"	4.59	11.9	NR	75-125	0.224	20	QM-07
Nickel	14.3	0.918	"	4.59	16.3	NR	75-125	0.914	20	QM-07
Selenium	5.31	0.239	"	4.59	0.280	110	75-125	10.1	20	
Silver	5.13	0.0918	"	4.59	0.0336	111	75-125	2.76	20	
Zinc	71.8	34.0	"	45.9	47.1	53.8	75-125	0.824	20	QM-07

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

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4G3043 - EPA 3580**

**Blank (B4G3043-BLK1)**

Prepared: 07/30/2024 Analyzed: 07/30/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U

Surrogate: Fluorene-d10	200		ug/kg	200	100	60-130
Surrogate: Anthracene-d10	190		"	200	97.3	60-130
Surrogate: Pyrene-d10	200		"	200	98.8	60-130
Surrogate: Benzo (a) pyrene-d12	190		"	200	97.2	60-130

**LCS (B4G3043-BS1)**

Prepared: 07/30/2024 Analyzed: 07/30/2024

1-Methylnaphthalene	0.200	0.002	mg/kg	0.200	100	70-130
2-Methylnaphthalene	0.199	0.002	"	0.200	99.4	70-130
Acenaphthene	0.201	0.020	"	0.200	101	70-130
Anthracene	0.194	0.020	"	0.200	97.2	70-130

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 Project: KMG - Dehaan V27-10,15 Facility

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4G3043 - EPA 3580**

**LCS (B4G3043-BS1)**

Prepared: 07/30/2024 Analyzed: 07/30/2024

Benzo (a) anthracene	0.197	0.005	mg/kg	0.200		98.6	70-130			
Benzo (a) pyrene	0.225	0.020	"	0.200		112	70-130			
Benzo (b) fluoranthene	0.212	0.020	"	0.200		106	70-130			
Benzo (g,h,i) perylene	0.197	0.020	"	0.200		98.3	70-130			
Benzo (k) fluoranthene	0.202	0.020	"	0.200		101	70-130			
Chrysene	0.203	0.020	"	0.200		102	70-130			
Dibenz (a,h) anthracene	0.192	0.020	"	0.200		96.1	70-130			
Fluoranthene	0.204	0.020	"	0.200		102	70-130			
Fluorene	0.204	0.020	"	0.200		102	70-130			
Indeno (1,2,3-cd) pyrene	0.190	0.020	"	0.200		95.2	70-130			
Naphthalene	0.201	0.002	"	0.200		101	70-130			
Phenanthrene	0.199	0.020	"	0.200		99.6	70-130			
Pyrene	0.207	0.020	"	0.200		104	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		97.4	60-130			
Surrogate: Pyrene-d10	200		"	200		99.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

**Matrix Spike (B4G3043-MS1)**

**Source: Y407802-01**

Prepared: 07/30/2024 Analyzed: 07/30/2024

1-Methylnaphthalene	0.192	0.002	mg/kg	0.200	0.0004	95.9	70-130			
2-Methylnaphthalene	0.191	0.002	"	0.200	ND	95.4	70-130			
Acenaphthene	0.196	0.020	"	0.200	ND	97.9	70-130			
Anthracene	0.185	0.020	"	0.200	0.0006	92.3	70-130			
Benzo (a) anthracene	0.192	0.005	"	0.200	0.001	95.3	70-130			
Benzo (a) pyrene	0.207	0.020	"	0.200	ND	103	70-130			
Benzo (b) fluoranthene	0.205	0.020	"	0.200	0.001	102	70-130			
Benzo (g,h,i) perylene	0.194	0.020	"	0.200	0.0007	96.8	70-130			

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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, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4G3043 - EPA 3580**

<b>Matrix Spike (B4G3043-MS1)</b>		<b>Source: Y407802-01</b>			<b>Prepared: 07/30/2024 Analyzed: 07/30/2024</b>					
Benzo (k) fluoranthene	0.200	0.020	mg/kg	0.200	0.001	99.6	70-130			
Chrysene	0.192	0.020	"	0.200	0.0009	95.4	70-130			
Dibenz (a,h) anthracene	0.195	0.020	"	0.200	ND	97.5	70-130			
Fluoranthene	0.198	0.020	"	0.200	0.0005	98.5	70-130			
Fluorene	0.197	0.020	"	0.200	ND	98.6	70-130			
Indeno (1,2,3-cd) pyrene	0.197	0.020	"	0.200	0.002	97.5	70-130			
Naphthalene	0.190	0.002	"	0.200	ND	95.2	70-130			
Phenanthrene	0.190	0.020	"	0.200	ND	95.0	70-130			
Pyrene	0.189	0.020	"	0.200	0.0006	94.1	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		98.0	60-130			
Surrogate: Pyrene-d10	190		"	200		95.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.0	60-130			

<b>Matrix Spike Dup (B4G3043-MSD1)</b>		<b>Source: Y407802-01</b>			<b>Prepared: 07/30/2024 Analyzed: 07/30/2024</b>					
1-Methylnaphthalene	0.192	0.002	mg/kg	0.200	0.0004	95.8	70-130	0.101	20	
2-Methylnaphthalene	0.190	0.002	"	0.200	ND	95.2	70-130	0.168	20	
Acenaphthene	0.194	0.020	"	0.200	ND	97.0	70-130	0.997	20	
Anthracene	0.188	0.020	"	0.200	0.0006	93.6	70-130	1.41	20	
Benzo (a) anthracene	0.191	0.005	"	0.200	0.001	95.0	70-130	0.391	20	
Benzo (a) pyrene	0.214	0.020	"	0.200	ND	107	70-130	3.25	20	
Benzo (b) fluoranthene	0.207	0.020	"	0.200	0.001	103	70-130	0.754	20	
Benzo (g,h,i) perylene	0.196	0.020	"	0.200	0.0007	97.6	70-130	0.832	20	
Benzo (k) fluoranthene	0.218	0.020	"	0.200	0.001	108	70-130	8.37	20	
Chrysene	0.194	0.020	"	0.200	0.0009	96.6	70-130	1.21	20	
Dibenz (a,h) anthracene	0.199	0.020	"	0.200	ND	99.7	70-130	2.22	20	
Fluoranthene	0.196	0.020	"	0.200	0.0005	97.9	70-130	0.605	20	

Origins Laboratory, Inc.



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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, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4G3043 - EPA 3580

Matrix Spike Dup (B4G3043-MSD1)	Source: Y407802-01			Prepared: 07/30/2024 Analyzed: 07/30/2024						
Fluorene	0.197	0.020	mg/kg	0.200	ND	98.3	70-130	0.349	20	
Indeno (1,2,3-cd) pyrene	0.188	0.020	"	0.200	0.002	93.3	70-130	4.40	20	
Naphthalene	0.190	0.002	"	0.200	ND	95.1	70-130	0.0388	20	
Phenanthrene	0.192	0.020	"	0.200	ND	96.1	70-130	1.12	20	
Pyrene	0.194	0.020	"	0.200	0.0006	96.9	70-130	2.91	20	
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		97.1	60-130			
Surrogate: Pyrene-d10	200		"	200		98.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.9	60-130			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

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

---

### Notes and Definitions

U Sample is Non-Detect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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---

Jen Pellegrini For Jordan A. Bynon, Project Manager



August 01, 2024

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

**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, Inc.  
303.433.1322  
o-squad@oelabinc.com



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

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - 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, Inc.



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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

# ORIGINS

LABORATORY, INC

ORIGINS WORK ORDER #

**W407862**

Page 1 of 1

Client: Eagle Environmental (OXN)

Project Manager: D. Coloccia

Key:

Address: 8000 W 44th Ave

Project Name: Dehaan V27-10,15 Facility

W= Water

Telephone Number: Wheat Ridge CO 80033

Project Number: ---

GW=Groundwater

Telephone Number: 303 433 0479

Collected By: JW

SW=Surface Water

Email Address: Dcoloccia@eagle-environ.com

Invoice Billing Info: Initial

WW=Waste Water

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

L=Liquid

#	Sample ID	Date		# of Containers	Matrix	Preservative	Analysis		Comments
		Sampled	Time						
1	SEP-20104	7/31/24	1414	3	UNP	S			
2	SEP-20204		1418						
3	SEP-20304		1420						
4	SEP-20404		1422						
5									
6									
7									
8									
9									
10									

Relinquished By: [Signature] Date: 7/31/24 Time: 1420

Received By: [Signature] Date: 7/31/24 Time: 1420

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com | Temp Received - 5.4 Received On Ice?  Yes  No

For Lab Sample Receiving Only:  Standard  Turnaround Time  SAME DAY  24 Hr  48 Hr  72 Hr

Origins Laboratory, Inc.

*Jefe Pellegrini*

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

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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - 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: SHD Shipped Via: HD  
 Date/time completed: 7/31/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: L15M °C 1 °C 1 °C (Describe) °C  
 Thermometer ID: TC05

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

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

Reviewed by (Project Manager) SHD Date/Time Reviewed 7/31/24

Origins Laboratory, Inc.



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

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

**SEP-B01@4'**  
**7/31/2024 2:16:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407862-01 (Soil)**

**DRO/ORO by EPA 8015D**

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

Surrogate: *o*-Terphenyl 111 % 50-150 " " "

**GBTEX+TMBs by 8260D**

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

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

**PAH by EPA 8270E**

1-Methylnaphthalene	0.389	0.002	mg/kg	1	B4G3145	Windo	07/31/2024	08/01/2024	
2-Methylnaphthalene	0.890	0.002	"	"	"	Windo	"	"	
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U

Origins Laboratory, Inc.



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

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

SEP-B01@4'  
 7/31/2024 2:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407862-01 (Soil)**

**PAH by EPA 8270E**

Benzo (a) anthracene	ND	0.005	mg/kg	1	B4G3145	Windo	07/31/2024	08/01/2024	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	<b>0.095</b>	0.020	"	"	"	Windo	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	<b>0.189</b>	0.002	"	"	"	Windo	"	"	
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	107 %	60-130			"	"	"	"
Surrogate: Anthracene-d10	97.4 %	60-130			"	"	"	"
Surrogate: Pyrene-d10	96.7 %	60-130			"	"	"	"
Surrogate: Benzo (a) pyrene-d12	99.9 %	60-130			"	"	"	"

**Table 915 metals by EPA 6020B**

Arsenic	<b>4.35</b>	0.247	mg/kg	10	B4G3140	HJD	07/31/2024	08/01/2024
Barium	<b>121</b>	8.51	"	"	"	HJD	"	"
Cadmium	<b>0.151</b>	0.0851	"	"	"	HJD	"	"
Copper	<b>12.2</b>	8.51	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

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

SEP-B01@4'

7/31/2024 2:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y407862-01 (Soil)

**Table 915 metals by EPA 6020B**

Lead	10.3	0.851	mg/kg	10	B4G3140	HJD	07/31/2024	08/01/2024	
Nickel	11.7	0.851	"	"	"	HJD	"	"	
Selenium	0.258	0.221	"	"	"	HJD	"	"	
Silver	ND	0.0851	"	"	"	HJD	"	"	U
Zinc	44.3	31.5	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

**SEP-B02@4'**  
**7/31/2024 2:18:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407862-02 (Soil)**

**DRO/ORO by EPA 8015D**

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

Surrogate: *o*-Terphenyl 79.9 % 50-150 " " "

**GBTEX+TMBs by 8260D**

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

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

**PAH by EPA 8270E**

1-Methylnaphthalene	0.011	0.002	mg/kg	1	B4G3145	Windo	07/31/2024	08/01/2024	
2-Methylnaphthalene	0.021	0.002	"	"	"	Windo	"	"	
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U

Origins Laboratory, Inc.



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

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

SEP-B02@4'  
 7/31/2024 2:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407862-02 (Soil)**

**PAH by EPA 8270E**

Benzo (a) anthracene	ND	0.005	mg/kg	1	B4G3145	Windo	07/31/2024	08/01/2024	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	<b>0.003</b>	0.002	"	"	"	Windo	"	"	
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	98.3 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	99.6 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	99.0 %	60-130			"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	96.6 %	60-130			"	"	"	"	

**Table 915 metals by EPA 6020B**

Arsenic	<b>5.56</b>	0.246	mg/kg	10	B4G3140	HJD	07/31/2024	08/01/2024	
Barium	<b>160</b>	8.50	"	"	"	HJD	"	"	
Cadmium	<b>0.230</b>	0.0850	"	"	"	HJD	"	"	
Copper	<b>17.6</b>	8.50	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

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

SEP-B02@4'

7/31/2024 2:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y407862-02 (Soil)

**Table 915 metals by EPA 6020B**

Lead	14.2	0.850	mg/kg	10	B4G3140	HJD	07/31/2024	08/01/2024	
Nickel	18.0	0.850	"	"	"	HJD	"	"	
Selenium	0.484	0.221	"	"	"	HJD	"	"	
Silver	ND	0.0850	"	"	"	HJD	"	"	U
Zinc	70.3	31.4	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

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

**SEP-B03@4'**  
**7/31/2024 2:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407862-03 (Soil)**

**DRO/ORO by EPA 8015D**

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

Surrogate: o-Terphenyl 84.3 % 50-150 " " "

**GBTEX+TMBs by 8260D**

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

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

**PAH by EPA 8270E**

1-Methylnaphthalene	0.025	0.002	mg/kg	1	B4G3145	Windo	07/31/2024	08/01/2024	
2-Methylnaphthalene	0.051	0.002	"	"	"	Windo	"	"	
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U

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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-B03@4'  
 7/31/2024 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407862-03 (Soil)**

**PAH by EPA 8270E**

Benzo (a) anthracene	ND	0.005	mg/kg	1	B4G3145	Windo	07/31/2024	08/01/2024	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	<b>0.007</b>	0.002	"	"	"	Windo	"	"	
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	100 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	98.6 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	95.4 %	60-130			"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	96.8 %	60-130			"	"	"	"	

**Table 915 metals by EPA 6020B**

Arsenic	<b>4.36</b>	0.279	mg/kg	10	B4G3140	HJD	07/31/2024	08/01/2024	
Barium	<b>231</b>	9.60	"	"	"	HJD	"	"	
Cadmium	<b>0.167</b>	0.0960	"	"	"	HJD	"	"	
Copper	<b>14.2</b>	9.60	"	"	"	HJD	"	"	

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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	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407862-03 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	12.5	0.960	mg/kg	10	B4G3140	HJD	07/31/2024	08/01/2024	
Nickel	12.8	0.960	"	"	"	HJD	"	"	
Selenium	0.756	0.250	"	"	"	HJD	"	"	
Silver	ND	0.0960	"	"	"	HJD	"	08/01/2024	U
Zinc	49.8	35.5	"	"	"	HJD	"	08/01/2024	

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 Project: KMG - Dehaan V27-10,15 Facility

SEP-B04@4'  
 7/31/2024 2:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407862-04 (Soil)**

**DRO/ORO by EPA 8015D**

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

Surrogate: o-Terphenyl 77.6 % 50-150 " " "

**GBTEX+TMBs by 8260D**

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

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "  
 Surrogate: Toluene-d8 103 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 113 % 70-130 " " "

**PAH by EPA 8270E**

1-Methylnaphthalene	0.008	0.002	mg/kg	1	B4G3145	Windo	07/31/2024	08/01/2024	
2-Methylnaphthalene	0.013	0.002	"	"	"	Windo	"	"	
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U

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

SEP-B04@4'  
 7/31/2024 2:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407862-04 (Soil)**

**PAH by EPA 8270E**

Anthracene	ND	0.020	mg/kg	1	B4G3145	Windo	07/31/2024	08/01/2024	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Naphthalene	ND	0.002	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

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			"	"	"	"

**Table 915 metals by EPA 6020B**

Arsenic	5.44	0.264	mg/kg	10	B4G3140	HJD	07/31/2024	08/01/2024
Barium	210	9.10	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

SEP-B04@4'

7/31/2024 2:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y407862-04 (Soil)

**Table 915 metals by EPA 6020B**

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

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

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

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

Origins Laboratory, Inc.



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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4G3149 - EPA 3550B</b>										
<b>LCS (B4G3149-BS1)</b>					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			

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4G3149 - EPA 3550B**

<b>Matrix Spike (B4G3149-MS1)</b>	<b>Source: Y407861-01</b>			<b>Prepared: 07/31/2024 Analyzed: 07/31/2024</b>						
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			

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4G3149 - EPA 3550B</b>										
<b>Matrix Spike Dup (B4G3149-MSD1)</b>		<b>Source: Y407861-01</b>			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			

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4G3151 - EPA 5030 (soil)**

**Blank (B4G3151-BLK1)**

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	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			

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

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

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

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

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

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

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 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, Inc.



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

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4G3140 - EPA 3050B**

**Blank (B4G3140-BLK1)**

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

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

**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

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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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4G3140 - EPA 3050B**

<b>Matrix Spike (B4G3140-MS1)</b>		<b>Source: Y407855-01</b>			<b>Prepared: 07/31/2024 Analyzed: 08/01/2024</b>					
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			
<b>Matrix Spike Dup (B4G3140-MSD1)</b>		<b>Source: Y407855-01</b>			<b>Prepared: 07/31/2024 Analyzed: 08/01/2024</b>					
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	

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Dan Coloccia  
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 Project: KMG - Dehaan V27-10,15 Facility

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4G3145 - EPA 3580**

**Blank (B4G3145-BLK1)**

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

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U

Surrogate: Fluorene-d10	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

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

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

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4G3145 - EPA 3580**

<b>Matrix Spike (B4G3145-MS1)</b>		<b>Source: Y407860-01</b>			<b>Prepared: 07/31/2024 Analyzed: 08/01/2024</b>					
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			

<b>Matrix Spike Dup (B4G3145-MSD1)</b>		<b>Source: Y407860-01</b>			<b>Prepared: 07/31/2024 Analyzed: 08/01/2024</b>					
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	

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

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

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**Notes and Definitions**

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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