



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

Origins Laboratory, Inc.



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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

ORIGINS

ORIGINS WORK ORDER #

407802

Page 1 of 2

LABORATORY, INC

Client: Eagle Environmental (b)(4)

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: Dehaan -

Collected By: JW

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	# of Containers	Matrix	Preservative	Analysis	Comments
1	AST-B01e3'	7/30/24	1200	3	S	UNP	Table pH Boron Metals	NAME CHANGED per client text on 7/30/24
2	AST-B03e3'	1204						
3	PN-B01e5'	1288						
4	PN-N01e4'	1210						
5	AST-B01e6'	1222	2					
6	AST-B02e6'	1224						
7	AST-B03e6'	1226						
8	PN-B01e3'	1228						
9	PN-B01e6'	1230						
10	PN-B02e3'	1232						

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

For Lab Sample Receiving Only:
Temp Received- 3.1 Received On Ice? ☒ Yes ☐ No

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

Origins Laboratory, Inc.
[Signature]

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

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

ORIGINS

ORIGINS WORK ORDER #

407802

Page 2 of 2

LABORATORY, INC

Client: Eagle Environmental (b)(7)

Project Manager: D. Coloccia

Key:

Address: 8000 W 44th Ave

Project Name: Dehaan V27-10,15 Facility

Wheat Ridge CO 80033

Project Number: Dehaan -

Telephone Number: 303 433 0479

Collected By: JW

SW=Surface Water

Email Address:

coloccia@eagle-environment.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 Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis				Comments
1	PN-Ba02ev	7/30/24	1234	2	S	UNP	PC	SAR	HP	Boron	Metals
2	PN-Ba03ev		1236								
3	PN-Ba03ev		1238								
4	PN-Ba04ev		1240								
5	PN-Ba04ev		1242								
6											
7											
8											
9											
10											

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

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

Origins Laboratory, Inc.

[Signature]

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

Dan Coloccia
Project Number: [none]
Project: KMG - 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: TJH/CH

Shipped Via: HL

Date/time completed: 7/30/12

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

Airbill #: N/A

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

Cooler Number/Temperature: 1 13.1 °C 1 °C 1 °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 ⁽¹⁾ ?	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (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 ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 7/30/12

Origins Laboratory, Inc.

[Signature]

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

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

AST-B01@3"

7/30/2024 12:00:00PM

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

Boron (DTPA Sorbitol)

Boron	0.196	0.0987	mg/L	1	B4G3104	07/31/2024	08/01/2024	
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DRO/ORO by EPA 8015D

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

Surrogate: o-Terphenyl	78.7 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

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

Surrogate: 1,2-Dichloroethane-d4	120 %	70-130	"	"	"	"	"	
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Origins Laboratory, Inc.



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

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

AST-B01@3"

7/30/2024 12:00:00PM

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

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.8 %	70-130				B4G30 41	07/30/2024	07/30/2024	
Surrogate: 4-Bromofluorobenzene	98.6 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	7.30	0.499	meq/L	10	[CALC]	07/31/2024	08/01/2024	
Magnesium	4.87	0.823	"	"	"	"	"	
Sodium	1.91	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G3043	07/30/2024	07/30/2024	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 (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y407802-01 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4G3043	07/30/2024	07/30/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

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	"	"	"

pH in Soil by 9045D

pH	8.09	pH Units	1	B4G3117	07/31/2024	08/01/2024
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SAR by 20B Saturated Paste

SAR	0.773	0.0100	SAR	1	B4G3111	07/31/2024	08/01/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.41	0.00500	mmhos/cm	1	B4G3117	07/31/2024	08/01/2024
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Table 915 metals by EPA 6020B

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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407802-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.71	0.244	mg/kg	10	B4G3039	07/30/2024	07/31/2024
Barium	129	8.40	"	"	"	"	"
Cadmium	0.187	0.0840	"	"	"	"	"
Copper	14.8	8.40	"	"	"	"	"
Lead	11.9	0.840	"	"	"	"	"
Nickel	16.3	0.840	"	"	"	"	"
Selenium	0.280	0.218	"	"	"	"	"
Silver	ND	0.0840	"	"	"	"	"
Zinc	47.1	31.1	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.102	0.254	mg/kg dry	1	2663576	08/28/2024	08/30/2024	U
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Origins Laboratory, Inc.



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

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

AST-B03@3"

7/30/2024 12:04:00PM

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

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4G3104	07/31/2024	08/01/2024	
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DRO/ORO by EPA 8015D

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

Surrogate: o-Terphenyl	88.4 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

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

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130	"	"	"	"	"	"
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Origins Laboratory, Inc.



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

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

AST-B03@3"

7/30/2024 12:04:00PM

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

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.5 %	70-130				B4G30 41	07/30/2024	07/30/2024	
Surrogate: 4-Bromofluorobenzene	96.8 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.13	0.499	meq/L	10	[CALC]	07/31/2024	08/01/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	0.607	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G3043	07/30/2024	07/30/2024	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 (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

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-B03@3"

7/30/2024 12:04:00PM

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

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4G3043	07/30/2024	07/30/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

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	"	"	"

pH in Soil by 9045D

pH	8.44	pH Units	1	B4G3117	07/31/2024	08/01/2024
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SAR by 20B Saturated Paste

SAR	0.666	0.0100	SAR	1	B4G3111	07/31/2024	08/01/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.229	0.00500	mmhos/cm	1	B4G3117	07/31/2024	08/01/2024
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Table 915 metals by EPA 6020B

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-B03@3"

7/30/2024 12:04:00PM

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

Table 915 metals by EPA 6020B

Arsenic	4.33	0.250	mg/kg	10	B4G3039	07/30/2024	07/31/2024
Barium	51.3	8.64	"	"	"	"	"
Cadmium	0.100	0.0864	"	"	"	"	"
Copper	9.82	8.64	"	"	"	"	"
Lead	5.95	0.864	"	"	"	"	"
Nickel	8.97	0.864	"	"	"	"	"
Selenium	0.307	0.225	"	"	"	"	"
Silver	ND	0.0864	"	"	"	"	"
Zinc	ND	32.0	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.176	0.441	mg/kg dry	1	2663576	08/28/2024	08/30/2024	U
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Origins Laboratory, Inc.



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

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

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

PW-B01@5'

7/30/2024 12:08:00PM

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

Boron (DTPA Sorbitol)

Boron	0.631	0.0996	mg/L	1	B4G3104	07/31/2024	08/01/2024	
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DRO/ORO by EPA 8015D

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

Surrogate: o-Terphenyl	84.0 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

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

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130	"	"	"	"	"	
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Origins Laboratory, Inc.



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

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

PW-B01@5'

7/30/2024 12:08:00PM

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

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	94.8 %	70-130				B4G30 41	07/30/2024	07/30/2024	
Surrogate: 4-Bromofluorobenzene	95.6 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	28.5	0.499	meq/L	10	[CALC]	07/31/2024	08/01/2024	
Magnesium	8.98	0.823	"	"	"	"	"	
Sodium	3.24	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G3043	07/30/2024	07/30/2024	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 (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

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	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y407802-03 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4G3043	07/30/2024	07/30/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

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	"	"	"

pH in Soil by 9045D

pH	7.87	pH Units	1	B4G3117	07/31/2024	08/01/2024
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SAR by 20B Saturated Paste

SAR	0.748	0.0100	SAR	1	B4G3111	07/31/2024	08/01/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.47	0.00500	mmhos/cm	1	B4G3117	07/31/2024	08/01/2024
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Table 915 metals by EPA 6020B

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-B01@5'

7/30/2024 12:08:00PM

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

Table 915 metals by EPA 6020B

Arsenic	2.27	0.286	mg/kg	10	B4G3039	07/30/2024	07/31/2024
Barium	72.9	9.86	"	"	"	"	"
Cadmium	0.156	0.0986	"	"	"	"	"
Copper	ND	9.86	"	"	"	"	"
Lead	8.24	0.986	"	"	"	"	"
Nickel	7.89	0.986	"	"	"	"	"
Selenium	ND	0.256	"	"	"	"	"
Silver	ND	0.0986	"	"	"	"	"
Zinc	ND	36.5	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.184	0.460	mg/kg dry	1	2663576	08/28/2024	08/30/2024	U
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Origins Laboratory, Inc.



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

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

PW-W01@4'

7/30/2024 12:16:00PM

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

Boron (DTPA Sorbitol)

Boron	0.175	0.100	mg/L	1	B4G3104	07/31/2024	08/01/2024	
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DRO/ORO by EPA 8015D

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

Surrogate: o-Terphenyl	80.4 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

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

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130			"	"	"	
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Origins Laboratory, 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-W01@4'

7/30/2024 12:16:00PM

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

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.0 %	70-130				B4G30 41	07/30/2024	07/30/2024	
Surrogate: 4-Bromofluorobenzene	96.8 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.74	0.499	meq/L	10	[CALC]	07/31/2024	08/01/2024	
Magnesium	1.42	0.823	"	"	"	"	"	
Sodium	0.626	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G3043	07/30/2024	07/30/2024	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 (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua

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-W01@4'

7/30/2024 12:16:00PM

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

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B4G3043	07/30/2024	07/30/2024	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Naphthalene	ND	0.002	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

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	"	"	"

pH in Soil by 9045D

pH	8.44	pH Units	1	B4G3117	07/31/2024	08/01/2024
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SAR by 20B Saturated Paste

SAR	0.390	0.0100	SAR	1	B4G3111	07/31/2024	08/01/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.615	0.00500	mmhos/cm	1	B4G3117	07/31/2024	08/01/2024
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Table 915 metals by EPA 6020B

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-W01@4'

7/30/2024 12:16:00PM

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

Table 915 metals by EPA 6020B

Arsenic	3.64	0.265	mg/kg	10	B4G3039	07/30/2024	07/31/2024
Barium	79.1	9.12	"	"	"	"	"
Cadmium	0.112	0.0912	"	"	"	"	"
Copper	ND	9.12	"	"	"	"	"
Lead	6.81	0.912	"	"	"	"	"
Nickel	8.25	0.912	"	"	"	"	"
Selenium	ND	0.237	"	"	"	"	"
Silver	ND	0.0912	"	"	"	"	"
Zinc	ND	33.7	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.145	0.363	mg/kg dry	1	2663576	08/28/2024	08/30/2024	U
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Origins Laboratory, Inc.



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

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

AST-BG01@6"

7/30/2024 12:22:00PM

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

Boron (DTPA Sorbitol)

Boron	0.831	0.100	mg/L	1	B4G3104	07/31/2024	08/01/2024
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Metals by Saturated Paste by EPA 6010

Calcium	5.76	0.499	meq/L	10	[CALC]	07/31/2024	08/01/2024
Magnesium	2.39	0.823	"	"	"	"	"
Sodium	0.535	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.28		pH Units	1	B4G3117	07/31/2024	08/01/2024
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SAR by 20B Saturated Paste

SAR	0.265	0.0100	SAR	1	B4G3111	07/31/2024	08/01/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.994	0.00500	mmhos/cm	1	B4G3117	07/31/2024	08/01/2024
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Table 915 metals by EPA 6020B

Arsenic	5.21	0.277	mg/kg	10	B4G3039	07/30/2024	07/31/2024
Barium	314	9.56	"	"	"	"	"
Cadmium	0.287	0.0956	"	"	"	"	"
Copper	16.5	9.56	"	"	"	"	"

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-BG01@6"

7/30/2024 12:22:00PM

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

Table 915 metals by EPA 6020B

Lead	16.7	0.956	mg/kg	10	B4G3039	07/30/2024	07/31/2024
Nickel	16.1	0.956	"	"	"	"	"
Selenium	0.370	0.249	"	"	"	"	"
Silver	ND	0.0956	"	"	"	"	"
Zinc	60.8	35.4	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.172	0.430	mg/kg dry	1	2663576	08/28/2024	08/30/2024	U
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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-BG02@6"

7/30/2024 12:24:00PM

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

Boron (DTPA Sorbitol)

Boron	1.05	0.0998	mg/L	1	B4G3104	07/31/2024	08/01/2024
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Metals by Saturated Paste by EPA 6010

Calcium	9.99	0.499	meq/L	10	[CALC]	07/31/2024	08/01/2024
Magnesium	4.91	0.823	"	"	"	"	"
Sodium	0.862	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.36		pH Units	1	B4G3117	07/31/2024	08/01/2024
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SAR by 20B Saturated Paste

SAR	0.316	0.0100	SAR	1	B4G3111	07/31/2024	08/01/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.68	0.00500	mmhos/cm	1	B4G3117	07/31/2024	08/01/2024
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Table 915 metals by EPA 6020B

Arsenic	3.67	0.264	mg/kg	10	B4G3039	07/30/2024	07/31/2024
Barium	99.7	9.11	"	"	"	"	"
Cadmium	0.143	0.0911	"	"	"	"	"
Copper	13.2	9.11	"	"	"	"	"

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-BG02@6"

7/30/2024 12:24:00PM

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

Table 915 metals by EPA 6020B

Lead	9.35	0.911	mg/kg	10	B4G3039	07/30/2024	07/31/2024
Nickel	10.5	0.911	"	"	"	"	"
Selenium	0.547	0.237	"	"	"	"	"
Silver	ND	0.0911	"	"	"	"	"
Zinc	49.3	33.7	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.131	0.328	mg/kg dry	1	2663576	08/28/2024	08/30/2024	U
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Origins Laboratory, Inc.



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

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

AST-BG03@6"

7/30/2024 12:26:00PM

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

Boron (DTPA Sorbitol)

Boron	1.02	0.0991	mg/L	1	B4G3104	07/31/2024	08/01/2024
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Metals by Saturated Paste by EPA 6010

Calcium	9.72	0.499	meq/L	10	[CALC]	07/31/2024	08/01/2024
Magnesium	5.59	0.823	"	"	"	"	"
Sodium	0.900	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.71		pH Units	1	B4G3117	07/31/2024	08/01/2024
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SAR by 20B Saturated Paste

SAR	0.325	0.0100	SAR	1	B4G3111	07/31/2024	08/01/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.48	0.00500	mmhos/cm	1	B4G3117	07/31/2024	08/01/2024
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Table 915 metals by EPA 6020B

Arsenic	4.56	0.261	mg/kg	10	B4G3039	07/30/2024	07/31/2024
Barium	164	8.98	"	"	"	"	"
Cadmium	0.453	0.0898	"	"	"	"	"
Copper	20.6	8.98	"	"	"	"	"

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-BG03@6"

7/30/2024 12:26:00PM

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

Table 915 metals by EPA 6020B

Lead	20.3	0.898	mg/kg	10	B4G3039	07/30/2024	07/31/2024
Nickel	16.4	0.898	"	"	"	"	"
Selenium	0.257	0.234	"	"	"	"	"
Silver	ND	0.0898	"	"	"	"	"
Zinc	121	33.2	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.176	0.440	mg/kg dry	1	2663576	08/28/2024	08/30/2024	U
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Origins Laboratory, Inc.



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

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

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

PW-BG01@3'

7/30/2024 12:28:00PM

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

Boron (DTPA Sorbitol)

Boron	1.31	0.0991	mg/L	1	B4G3104	07/31/2024	08/01/2024
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Metals by Saturated Paste by EPA 6010

Calcium	24.0	0.499	meq/L	10	[CALC]	07/31/2024	08/01/2024
Magnesium	16.8	0.823	"	"	"	"	"
Sodium	47.5	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.98		pH Units	1	B4G3117	07/31/2024	08/01/2024
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SAR by 20B Saturated Paste

SAR	10.5	0.0100	SAR	1	B4G3111	07/31/2024	08/01/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	6.30	0.00500	mmhos/cm	1	B4G3117	07/31/2024	08/01/2024
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Table 915 metals by EPA 6020B

Arsenic	4.62	0.279	mg/kg	10	B4G3039	07/30/2024	07/31/2024
Barium	98.5	9.63	"	"	"	"	"
Cadmium	0.568	0.0963	"	"	"	"	"
Copper	21.4	9.63	"	"	"	"	"

Origins Laboratory, Inc.



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

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

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

PW-BG01@3'

7/30/2024 12:28:00PM

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

Table 915 metals by EPA 6020B

Lead	19.0	0.963	mg/kg	10	B4G3039	07/30/2024	07/31/2024
Nickel	27.7	0.963	"	"	"	"	"
Selenium	1.14	0.250	"	"	"	"	"
Silver	ND	0.0963	"	"	"	"	"
Zinc	132	35.6	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.167	0.417	mg/kg dry	1	2663576	08/28/2024	08/30/2024	U
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Origins Laboratory, Inc.



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

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

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

PW-BG01@6'

7/30/2024 12:30:00PM

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

Boron (DTPA Sorbitol)

Boron	0.946	0.0999	mg/L	1	B4G3104	07/31/2024	08/01/2024
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Metals by Saturated Paste by EPA 6010

Calcium	4.10	0.499	meq/L	10	[CALC]	07/31/2024	08/01/2024
Magnesium	3.51	0.823	"	"	"	"	"
Sodium	25.5	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.28		pH Units	1	B4G3117	07/31/2024	08/01/2024
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SAR by 20B Saturated Paste

SAR	13.1	0.0100	SAR	1	B4G3111	07/31/2024	08/01/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.16	0.00500	mmhos/cm	1	B4G3117	07/31/2024	08/01/2024
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Table 915 metals by EPA 6020B

Arsenic	1.98	0.283	mg/kg	10	B4G3039	07/30/2024	07/31/2024
Barium	81.0	9.75	"	"	"	"	"
Cadmium	0.489	0.0975	"	"	"	"	"
Copper	20.6	9.75	"	"	"	"	"

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-BG01@6'

7/30/2024 12:30:00PM

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

Table 915 metals by EPA 6020B

Lead	24.9	0.975	mg/kg	10	B4G3039	07/30/2024	07/31/2024
Nickel	15.5	0.975	"	"	"	"	"
Selenium	ND	0.253	"	"	"	"	"
Silver	ND	0.0975	"	"	"	"	"
Zinc	45.3	36.1	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.182	0.455	mg/kg dry	1	2663576	08/28/2024	08/30/2024	U
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Origins Laboratory, Inc.



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

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

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

PW-BG02@3'

7/30/2024 12:32:00PM

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

Boron (DTPA Sorbitol)

Boron	1.55	0.100	mg/L	1	B4G3104	07/31/2024	08/01/2024
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Metals by Saturated Paste by EPA 6010

Calcium	5.13	0.499	meq/L	10	[CALC]	07/31/2024	08/01/2024
Magnesium	4.88	0.823	"	"	"	"	"
Sodium	28.8	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.19		pH Units	1	B4G3117	07/31/2024	08/01/2024
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SAR by 20B Saturated Paste

SAR	12.9	0.0100	SAR	1	B4G3111	07/31/2024	08/01/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.05	0.00500	mmhos/cm	1	B4G3117	07/31/2024	08/01/2024
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Table 915 metals by EPA 6020B

Arsenic	5.98	0.274	mg/kg	10	B4G3039	07/30/2024	07/31/2024
Barium	98.7	9.44	"	"	"	"	"
Cadmium	0.696	0.0944	"	"	"	"	"
Copper	24.3	9.44	"	"	"	"	"

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-BG02@3'

7/30/2024 12:32:00PM

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

Table 915 metals by EPA 6020B

Lead	22.8	0.944	mg/kg	10	B4G3039	07/30/2024	07/31/2024
Nickel	22.9	0.944	"	"	"	"	"
Selenium	0.501	0.246	"	"	"	"	"
Silver	ND	0.0944	"	"	"	"	"
Zinc	115	34.9	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.157	0.392	mg/kg dry	1	2663576	08/28/2024	08/30/2024	U
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Origins Laboratory, Inc.



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

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

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

PW-BG02@6'

7/30/2024 12:34:00PM

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

Boron (DTPA Sorbitol)

Boron	1.06	0.0999	mg/L	1	B4G3104	07/31/2024	08/01/2024
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Metals by Saturated Paste by EPA 6010

Calcium	11.1	0.499	meq/L	10	[CALC]	07/31/2024	08/01/2024
Magnesium	8.50	0.823	"	"	"	"	"
Sodium	31.9	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.13		pH Units	1	B4G3117	07/31/2024	08/01/2024
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SAR by 20B Saturated Paste

SAR	10.2	0.0100	SAR	1	B4G3111	07/31/2024	08/01/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.09	0.00500	mmhos/cm	1	B4G3117	07/31/2024	08/01/2024
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Table 915 metals by EPA 6020B

Arsenic	3.71	0.264	mg/kg	10	B4G3039	07/30/2024	07/31/2024
Barium	134	9.09	"	"	"	"	"
Cadmium	0.338	0.0909	"	"	"	"	"
Copper	20.7	9.09	"	"	"	"	"

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-BG02@6'

7/30/2024 12:34:00PM

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

Table 915 metals by EPA 6020B

Lead	19.3	0.909	mg/kg	10	B4G3039	07/30/2024	07/31/2024
Nickel	13.4	0.909	"	"	"	"	"
Selenium	0.328	0.236	"	"	"	"	"
Silver	ND	0.0909	"	"	"	"	"
Zinc	54.2	33.6	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.158	0.396	mg/kg dry	1	2663576	08/28/2024	08/30/2024	U
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Origins Laboratory, Inc.



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

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

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

PW-BG03@3'

7/30/2024 12:36:00PM

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

Boron (DTPA Sorbitol)

Boron	1.62	0.0993	mg/L	1	B4G3104	07/31/2024	08/01/2024
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Metals by Saturated Paste by EPA 6010

Calcium	23.2	0.499	meq/L	10	[CALC]	07/31/2024	08/01/2024
Magnesium	21.1	0.823	"	"	"	"	"
Sodium	48.3	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.96		pH Units	1	B4G3117	07/31/2024	08/01/2024
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SAR by 20B Saturated Paste

SAR	10.3	0.0100	SAR	1	B4G3111	07/31/2024	08/01/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	6.21	0.00500	mmhos/cm	1	B4G3117	07/31/2024	08/01/2024
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Table 915 metals by EPA 6020B

Arsenic	4.86	0.274	mg/kg	10	B4G3039	07/30/2024	07/31/2024
Barium	116	9.44	"	"	"	"	"
Cadmium	0.394	0.0944	"	"	"	"	"
Copper	16.7	9.44	"	"	"	"	"

Origins Laboratory, Inc.



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

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

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

PW-BG03@3'

7/30/2024 12:36:00PM

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

Table 915 metals by EPA 6020B

Lead	21.9	0.944	mg/kg	10	B4G3039	07/30/2024	07/31/2024
Nickel	22.5	0.944	"	"	"	"	"
Selenium	0.249	0.245	"	"	"	"	"
Silver	ND	0.0944	"	"	"	"	"
Zinc	71.3	34.9	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.152	0.380	mg/kg dry	1	2663576	08/28/2024	08/30/2024	U
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Origins Laboratory, Inc.



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

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

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

PW-BG03@6'

7/30/2024 12:38:00PM

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

Boron (DTPA Sorbitol)

Boron	1.67	0.0990	mg/L	1	B4G3106	07/31/2024	08/01/2024
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Metals by Saturated Paste by EPA 6010

Calcium	22.3	0.499	meq/L	10	[CALC]	07/31/2024	08/01/2024
Magnesium	19.8	0.823	"	"	"	"	"
Sodium	46.6	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.02		pH Units	1	B4G3117	07/31/2024	08/01/2024
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SAR by 20B Saturated Paste

SAR	10.1	0.0100	SAR	1	B4G3111	07/31/2024	08/01/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	6.04	0.00500	mmhos/cm	1	B4G3117	07/31/2024	08/01/2024
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Table 915 metals by EPA 6020B

Arsenic	5.94	0.278	mg/kg	10	B4G3039	07/30/2024	07/31/2024
Barium	64.2	9.57	"	"	"	"	"
Cadmium	0.381	0.0957	"	"	"	"	"
Copper	21.9	9.57	"	"	"	"	"

Origins Laboratory, Inc.



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

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

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

PW-BG03@6'

7/30/2024 12:38:00PM

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

Table 915 metals by EPA 6020B

Lead	19.8	0.957	mg/kg	10	B4G3039	07/30/2024	07/31/2024
Nickel	18.7	0.957	"	"	"	"	"
Selenium	ND	0.249	"	"	"	"	"
Silver	ND	0.0957	"	"	"	"	"
Zinc	79.8	35.4	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.140	0.349	mg/kg dry	1	2663576	08/28/2024	08/30/2024	U
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Origins Laboratory, Inc.



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

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

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

PW-BG04@3'

7/30/2024 12:40:00PM

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

Boron (DTPA Sorbitol)

Boron	2.43	0.0995	mg/L	1	B4G3106	07/31/2024	08/01/2024
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Metals by Saturated Paste by EPA 6010

Calcium	6.50	0.499	meq/L	10	[CALC]	07/31/2024	08/01/2024
Magnesium	12.0	0.823	"	"	"	"	"
Sodium	42.1	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.32		pH Units	1	B4G3117	07/31/2024	08/01/2024
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SAR by 20B Saturated Paste

SAR	13.8	0.0100	SAR	1	B4G3111	07/31/2024	08/01/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.24	0.00500	mmhos/cm	1	B4G3117	07/31/2024	08/01/2024
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Table 915 metals by EPA 6020B

Arsenic	4.75	0.261	mg/kg	10	B4G3039	07/30/2024	07/31/2024
Barium	104	9.01	"	"	"	"	"
Cadmium	0.521	0.0901	"	"	"	"	"
Copper	16.0	9.01	"	"	"	"	"

Origins Laboratory, Inc.



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

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

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

PW-BG04@3'

7/30/2024 12:40:00PM

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

Table 915 metals by EPA 6020B

Lead	13.9	0.901	mg/kg	10	B4G3039	07/30/2024	07/31/2024
Nickel	15.5	0.901	"	"	"	"	"
Selenium	0.511	0.234	"	"	"	"	"
Silver	ND	0.0901	"	"	"	"	"
Zinc	63.2	33.3	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.146	0.366	mg/kg dry	1	2663576	08/28/2024	08/30/2024	U
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Origins Laboratory, Inc.



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

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

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

PW-BG04@6'

7/30/2024 12:42:00PM

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

Boron (DTPA Sorbitol)

Boron	2.14	0.0999	mg/L	1	B4G3106	07/31/2024	08/01/2024
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Metals by Saturated Paste by EPA 6010

Calcium	25.6	0.499	meq/L	10	[CALC]	07/31/2024	08/01/2024
Magnesium	31.5	0.823	"	"	"	"	"
Sodium	59.1	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.11		pH Units	1	B4G3117	07/31/2024	08/01/2024
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SAR by 20B Saturated Paste

SAR	11.1	0.0100	SAR	1	B4G3111	07/31/2024	08/01/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	7.69	0.00500	mmhos/cm	1	B4G3117	07/31/2024	08/01/2024
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Table 915 metals by EPA 6020B

Arsenic	3.66	0.246	mg/kg	10	B4G3039	07/30/2024	07/31/2024
Barium	126	8.49	"	"	"	"	"
Cadmium	0.440	0.0849	"	"	"	"	"
Copper	15.2	8.49	"	"	"	"	"

Origins Laboratory, Inc.



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

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

PW-BG04@6'

7/30/2024 12:42:00PM

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

Table 915 metals by EPA 6020B

Lead	14.7		0.849	mg/kg	10	B4G3039	07/30/2024	07/31/2024	
Nickel	15.3		0.849	"	"	"	"	"	
Selenium	0.241		0.221	"	"	"	"	"	
Silver	ND		0.0849	"	"	"	"	"	
Zinc	51.1		31.4	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.161	0.402	mg/kg dry	1	2663573	08/28/2024	08/30/2024	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

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
Batch B4G3040 - EPA 3550B										
Blank (B4G3040-BLK1)					Prepared: 07/30/2024 Analyzed: 07/30/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	24		"	24.9		98.2	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - 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
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			

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

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

Matrix Spike (B4G3040-MS1)		Source: Y407777-01			Prepared: 07/30/2024 Analyzed: 07/30/2024					
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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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

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

Matrix Spike Dup (B4G3040-MSD1)		Source: Y407777-01			Prepared: 07/30/2024 Analyzed: 07/30/2024					
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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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

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
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							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	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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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, 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			

Origins Laboratory, Inc.



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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

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
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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Eagle Environmental Consulting, LLC
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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
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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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, 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
Barium	ND	10.0	"
Cadmium	ND	0.100	"
Copper	ND	10.0	"
Lead	ND	1.00	"
Nickel	ND	1.00	"
Selenium	ND	0.260	"
Silver	ND	0.100	"
Zinc	ND	37.0	"

LCS (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

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

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

Matrix Spike (B4G3039-MS1)		Source: Y407802-01			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
Matrix Spike Dup (B4G3039-MSD1)		Source: Y407802-01			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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Eagle Environmental Consulting, LLC
8000 W 44th Ave
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

Blank (B4G3043-BLK1)

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

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	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

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

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

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

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 (B4G3043-MS1)		Source: Y407802-01			Prepared: 07/30/2024 Analyzed: 07/30/2024					
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			

Matrix Spike Dup (B4G3043-MSD1)		Source: Y407802-01			Prepared: 07/30/2024 Analyzed: 07/30/2024					
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	

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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

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			

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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

Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4G3104 - DTPA Sorbitol Preparation										
Blank (B4G3104-BLK1)					Prepared: 07/31/2024 Analyzed: 08/01/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4G3104-DUP1)					Source: Y407704-01 Prepared: 07/31/2024 Analyzed: 08/01/2024					
Boron	0.759	0.0990	mg/L		0.742			2.36	50	
Batch B4G3106 - DTPA Sorbitol Preparation										
Blank (B4G3106-BLK1)					Prepared: 07/31/2024 Analyzed: 08/01/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4G3106-DUP1)					Source: Y407802-13 Prepared: 07/31/2024 Analyzed: 08/01/2024					
Boron	1.73	0.100	mg/L		1.67			3.62	50	
Batch B4G3111 - Saturated Paste Metals										
Blank (B4G3111-BLK1)					Prepared: 07/31/2024 Analyzed: 08/01/2024					
Calcium PPM	ND	10.0	mg/L							
SAR	ND	0.0100	SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							
Duplicate (B4G3111-DUP1)					Source: Y407666-07 Prepared: 07/31/2024 Analyzed: 08/01/2024					
Calcium PPM	11.3	10.0	mg/L		10.9			3.34	50	
SAR	ND	0.0100	SAR		2.60				200	
Magnesium PPM	15.6	10.0	mg/L		15.4			1.35	50	
Sodium PPM	48.9	10.0	"		57.0			15.3	50	

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Dan Coloccia
Project Number: [none]
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Saturated Paste - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4G3117 - Saturated Paste pH/EC										
Blank (B4G3117-BLK1)					Prepared: 07/31/2024 Analyzed: 08/01/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4G3117-DUP1)					Source: Y407666-07 Prepared: 07/31/2024 Analyzed: 08/01/2024					
pH	8.44		pH Units		8.53			1.06	25	
Specific Conductance (EC)	0.374	0.00500	mmhos/cm		0.396			5.75	25	

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Jordan A. Bynon, Project Manager

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2663576 - SW846 3060A										
BLANK (1205836671-BLK)					Prepared: 08/28/2024 Analyzed: 08/30/2024					
Hexavalent Chromium	ND	0.344	mg/kg				-			U
LCS (1205836672-BKS)					Prepared: 08/28/2024 Analyzed: 08/30/2024					
Hexavalent Chromium	3.92	0.388	mg/kg	3.88		101	80-120			
DUP (1205836673 D)					Source: Y407802-01 Prepared: 08/28/2024 Analyzed: 08/30/2024					
Hexavalent Chromium	ND	0.254	mg/kg dry		<0.102		0-50	N/A	50	U
MS (1205836674 S)					Source: Y407802-01 Prepared: 08/28/2024 Analyzed: 08/30/2024					
Hexavalent Chromium	1.43	0.254	mg/kg dry	2.54	<0.102	55.9	75-125			
DUP (1205836675 D)					Source: Y407802-02 Prepared: 08/28/2024 Analyzed: 08/30/2024					
Hexavalent Chromium	ND	0.441	mg/kg dry		<0.177		0-50	N/A	50	U
MS (1205836676 S)					Source: Y407802-02 Prepared: 08/28/2024 Analyzed: 08/30/2024					
Hexavalent Chromium	3.45	0.441	mg/kg dry	4.41	<0.176	77.8	75-125			
ILCS (1205836677-ILCS)					Prepared: 08/28/2024 Analyzed: 08/30/2024					
Hexavalent Chromium	7.94	0.365	mg/kg	7.71		103	80-120			

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2663573 - SW846 3060A										
BLANK (1205836658-BLK)					Prepared: 08/28/2024 Analyzed: 08/30/2024					
Hexavalent Chromium	ND	0.243	mg/kg				-			U
LCS (1205836659-BKS)					Prepared: 08/28/2024 Analyzed: 08/30/2024					
Hexavalent Chromium	3.17	0.316	mg/kg	3.16		100	80-120			
DUP (1205836660 D)					Source: 678369001 Prepared: 08/28/2024 Analyzed: 08/30/2024					
Hexavalent Chromium	ND	0.384	mg/kg dry		<0.154		0-50	N/A	50	U
MS (1205836661 S)					Source: 678369001 Prepared: 08/28/2024 Analyzed: 08/30/2024					
Hexavalent Chromium	2.20	0.384	mg/kg dry	3.84	<0.154	55.9	75-125			
DUP (1205836662 D)					Source: 678369002 Prepared: 08/28/2024 Analyzed: 08/30/2024					
Hexavalent Chromium	ND	0.266	mg/kg dry		<0.107		0-50	N/A	50	U
MS (1205836663 S)					Source: 678369002 Prepared: 08/28/2024 Analyzed: 08/30/2024					
Hexavalent Chromium	1.00	0.267	mg/kg dry	2.67	<0.107	34	75-125			
ILCS (1205836664-ILCS)					Prepared: 08/28/2024 Analyzed: 08/30/2024					
Hexavalent Chromium	5.94	0.276	mg/kg	5.60		106	80-120			

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Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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 on a wet weight basis.

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

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Jordan A. Bynon, Project Manager