



**Eagle Environmental Consulting, LLC**

**Dan Coloccia**

**8000 W 44th Ave**

**Wheat Ridge CO 80033**

**October 02, 2024**

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

Attached are your analytical results for KMG - Dehaan V27-10,15 Facility received by Origins Laboratory September 17, 2024. This project is associated with Origins project number E409484-01.

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

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

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

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

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

Origins Laboratory  
303.433.1322  
projectmanager@originslab.com



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



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

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

### CROSS REFERENCE REPORT

| Sample ID  | Laboratory ID | Matrix | Date Sampled             | Date Received    |
|------------|---------------|--------|--------------------------|------------------|
| SEP-B05@6' | E409484-01    | Soil   | September 17, 2024 14:38 | 09/17/2024 15:43 |
| SEP-N01@4' | E409484-02    | Soil   | September 17, 2024 14:45 | 09/17/2024 15:43 |
| SEP-E01@4' | E409484-03    | Soil   | September 17, 2024 14:30 | 09/17/2024 15:43 |
| SEP-S01@4' | E409484-04    | Soil   | September 17, 2024 14:25 | 09/17/2024 15:43 |
| SEP-W01@4' | E409484-05    | Soil   | September 17, 2024 14:34 | 09/17/2024 15:43 |

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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 #

# 6409484

Page 1 of 1

LABORATORY INC

Client: Eagle Environmental (oxy)

Address: 8000 W 44th Ave

Wheat Ridge CO 80033

Telephone Number: 303-433-0474

Email Address: d.coloccia@eagle-environ.com

Project Manager: D. Coloccia

Project Name: Dehaan V27-10,15 Facility

Project Number: -

Collected By: CB

Invoice Billing Info: Impacted

Key:

W=Water

GW=Groundwater

SW=Surface Water

WW=Waste Water

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      |
|----|-----------|--------------|--------------|-----------------|---------------------|----------|------|------|-------|------------|----------|----------|---------------|
|    |           |              |              |                 |                     | TPH      | TMDs | BTEX | Naph. | 1,2 MetMol | Fluorene | Metals * |               |
| 1  | SEP-BDS06 | 9/17/24      | 2:38         | 3               | 5                   | UNP      | X    | X    | X     | X          | X        | X        | * All Metals  |
| 2  | SEP-N010A |              | 2:45         |                 |                     |          |      |      |       |            |          |          | except silver |
| 3  | SEP-C010A |              | 2:30         |                 |                     |          |      |      |       |            |          |          |               |
| 4  | SEP-S010A |              | 2:25         |                 |                     |          |      |      |       |            |          |          |               |
| 5  | SEP-W010A |              | 2:34         |                 |                     |          |      |      |       |            |          |          |               |
| 6  |           |              |              |                 |                     |          |      |      |       |            |          |          |               |
| 7  |           |              |              |                 |                     |          |      |      |       |            |          |          |               |
| 8  |           |              |              |                 |                     |          |      |      |       |            |          |          |               |
| 9  |           |              |              |                 |                     |          |      |      |       |            |          |          |               |
| 10 |           |              |              |                 |                     |          |      |      |       |            |          |          |               |

|                               |               |            |                        |               |            |
|-------------------------------|---------------|------------|------------------------|---------------|------------|
| Relinquished By: <i>W. H.</i> | Date: 9/17/24 | Time: 1543 | Received By: <i>CB</i> | Date: 9/17/24 | Time: 1543 |
| Relinquished By:              | Date:         | Time:      | Received By:           | Date:         | Time:      |

For Lab Sample Receiving Only:

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com |

Temp Received- 4,3 Received On Ice? ☒ Yes ☐ No

☐ Standard

☐ 48 Hr ☐ 72 Hr

☒ SAME DAY ☐ 24 Hr

Turnaround Time

Origins Laboratory

*J. Bynon*

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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: 6409484

Client: Eagle  
Client Project ID: Dehaan V27-10,15

Checklist Completed by: CHD/KK  
Date/time completed: 9/17/24

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

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

Cooler Number/Temperature: 1,43 °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 <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Is there ice present (document if blue ice is used)  | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)  |                                     | <input checked="" type="checkbox"/> |                                     |                   |
| Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)   |                                     | <input checked="" type="checkbox"/> |                                     |                   |
| Were all samples received intact <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Was adequate sample volume provided <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?   |                                     | <input checked="" type="checkbox"/> |                                     |                   |
| Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.   |                                     |                                     | <input checked="" type="checkbox"/> |                   |
| Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with Na <sub>2</sub> SO <sub>2</sub> +NaOH, ZnAc+NaOH) |                                     |                                     | <input checked="" type="checkbox"/> |                   |
| Additional Comments (if any):  |                                     |                                     |                                     |                   |

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

Reviewed by (Project Manager) CHD

Date/Time Reviewed 9/17/24

Origins Laboratory

*J. Bynon*

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

SEP-B05@6'

9/17/2024 2:38:00PM

| Analyte | Result | Min Detection Limit | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|

## Origins Laboratory E409484-01 (Soil)

### Boron (DTPA Sorbitol)

|       |      |       |      |   |         |            |            |  |
|-------|------|-------|------|---|---------|------------|------------|--|
| Boron | 1.73 | 0.100 | mg/L | 1 | B4I1809 | 09/18/2024 | 09/19/2024 |  |
|-------|------|-------|------|---|---------|------------|------------|--|

### DRO/ORO by EPA 8015D

|                                   |    |      |       |   |         |            |            |   |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND | 25.0 | mg/kg | 1 | B4I1735 | 09/17/2024 | 09/18/2024 | U |
| Residual Range Organics (C28-C40) | ND | 100  | "     | " | "       | "          | "          | U |

|                        |        |        |   |   |   |
|------------------------|--------|--------|---|---|---|
| Surrogate: o-Terphenyl | 79.8 % | 50-150 | " | " | " |
|------------------------|--------|--------|---|---|---|

### GBTEX+TMBs by 8260D

|                             |    |         |       |   |         |            |            |   |
|-----------------------------|----|---------|-------|---|---------|------------|------------|---|
| 1,2,4-Trimethylbenzene      | ND | 0.00200 | mg/kg | 1 | B4I1736 | 09/17/2024 | 09/17/2024 | U |
| 1,3,5-Trimethylbenzene      | ND | 0.00200 | "     | " | "       | "          | "          | U |
| Benzene                     | ND | 0.00200 | "     | " | "       | "          | "          | U |
| Ethylbenzene                | ND | 0.00200 | "     | " | "       | "          | "          | U |
| Toluene                     | ND | 0.00200 | "     | " | "       | "          | "          | U |
| Xylenes, total              | ND | 0.00200 | "     | " | "       | "          | "          | U |
| Gasoline Range Hydrocarbons | ND | 0.200   | "     | " | "       | "          | "          | U |

|                                  |       |        |   |   |   |
|----------------------------------|-------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 126 % | 70-130 | " | " | " |
|----------------------------------|-------|--------|---|---|---|

Origins Laboratory



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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-B05@6'

9/17/2024 2:38:00PM

| Analyte | Result | Min Detection Limit | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|

## Origins Laboratory

### E409484-01 (Soil)

### GBTEX+TMBs by 8260D

|                                 |        |        |             |            |            |
|---------------------------------|--------|--------|-------------|------------|------------|
| Surrogate: Toluene-d8           | 99.4 % | 70-130 | B4I173<br>6 | 09/17/2024 | 09/17/2024 |
| Surrogate: 4-Bromofluorobenzene | 107 %  | 70-130 | "           | "          | "          |

### PAH by EPA 8270E extracted via 3580A

|                     |    |       |       |   |         |            |            |   |
|---------------------|----|-------|-------|---|---------|------------|------------|---|
| 1-Methylnaphthalene | ND | 0.002 | mg/kg | 1 | B4I1727 | 09/17/2024 | 09/17/2024 | U |
| 2-Methylnaphthalene | ND | 0.002 | "     | " | "       | "          | "          | U |
| Fluorene            | ND | 0.020 | "     | " | "       | "          | "          | U |
| Naphthalene         | ND | 0.002 | "     | " | "       | "          | "          | U |

|                                 |       |        |   |   |   |
|---------------------------------|-------|--------|---|---|---|
| Surrogate: Fluorene-d10         | 106 % | 60-130 | " | " | " |
| Surrogate: Anthracene-d10       | 109 % | 60-130 | " | " | " |
| Surrogate: Pyrene-d10           | 102 % | 60-130 | " | " | " |
| Surrogate: Benzo (a) pyrene-d12 | 106 % | 60-130 | " | " | " |

### Table 915 metals by EPA 6020B

|         |       |        |       |    |         |            |            |
|---------|-------|--------|-------|----|---------|------------|------------|
| Arsenic | 3.18  | 0.263  | mg/kg | 10 | B4I1737 | 09/17/2024 | 09/18/2024 |
| Barium  | 57.8  | 9.07   | "     | "  | "       | "          | "          |
| Cadmium | 0.108 | 0.0907 | "     | "  | "       | "          | "          |
| Copper  | 14.9  | 9.07   | "     | "  | "       | "          | "          |
| Lead    | 11.1  | 0.907  | "     | "  | "       | "          | "          |
| Nickel  | 7.98  | 0.907  | "     | "  | "       | "          | "          |

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Wheat Ridge CO 80033

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

SEP-B05@6'

9/17/2024 2:38:00PM

| Analyte | Result | Min Detection<br>Limit | Reporting<br>Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|------------------------|--------------------|-------|----------|-------|----------|----------|-------|
|---------|--------|------------------------|--------------------|-------|----------|-------|----------|----------|-------|

**Origins Laboratory**  
**E409484-01 (Soil)**

**Table 915 metals by EPA 6020B**

|          |    |  |       |       |    |         |            |            |  |
|----------|----|--|-------|-------|----|---------|------------|------------|--|
| Selenium | ND |  | 0.236 | mg/kg | 10 | B411737 | 09/17/2024 | 09/18/2024 |  |
| Zinc     | ND |  | 33.6  | "     | "  | "       | "          | "          |  |

**Total Metals 7196A**

|                      |    |       |     |       |   |         |            |            |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|
| Chromium, Hexavalent | ND | 0.244 | 0.5 | mg/Kg | 1 | L774298 | 09/17/2024 | 09/24/2024 |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|

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Jordan A. Bynon, Project Manager



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8000 W 44th Ave  
Wheat Ridge CO 80033

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

SEP-N01@4'  
9/17/2024 2:45:00PM

| Analyte | Result | Min Detection Limit | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|

## Origins Laboratory E409484-02 (Soil)

### Boron (DTPA Sorbitol)

|       |       |       |      |   |         |            |            |  |
|-------|-------|-------|------|---|---------|------------|------------|--|
| Boron | 0.738 | 0.102 | mg/L | 1 | B4I1809 | 09/18/2024 | 09/19/2024 |  |
|-------|-------|-------|------|---|---------|------------|------------|--|

### DRO/ORO by EPA 8015D

|                                   |    |      |       |   |         |            |            |   |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND | 25.0 | mg/kg | 1 | B4I1735 | 09/17/2024 | 09/18/2024 | U |
| Residual Range Organics (C28-C40) | ND | 100  | "     | " | "       | "          | "          | U |

|                        |        |        |   |   |   |
|------------------------|--------|--------|---|---|---|
| Surrogate: o-Terphenyl | 80.8 % | 50-150 | " | " | " |
|------------------------|--------|--------|---|---|---|

### GBTEX+TMBs by 8260D

|                             |    |         |       |   |         |            |            |   |
|-----------------------------|----|---------|-------|---|---------|------------|------------|---|
| 1,2,4-Trimethylbenzene      | ND | 0.00200 | mg/kg | 1 | B4I1736 | 09/17/2024 | 09/17/2024 | U |
| 1,3,5-Trimethylbenzene      | ND | 0.00200 | "     | " | "       | "          | "          | U |
| Benzene                     | ND | 0.00200 | "     | " | "       | "          | "          | U |
| Ethylbenzene                | ND | 0.00200 | "     | " | "       | "          | "          | U |
| Toluene                     | ND | 0.00200 | "     | " | "       | "          | "          | U |
| Xylenes, total              | ND | 0.00200 | "     | " | "       | "          | "          | U |
| Gasoline Range Hydrocarbons | ND | 0.200   | "     | " | "       | "          | "          | U |

|                                  |       |        |   |   |   |
|----------------------------------|-------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 126 % | 70-130 | " | " | " |
|----------------------------------|-------|--------|---|---|---|

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

SEP-N01@4'

9/17/2024 2:45:00PM

| Analyte | Result | Min Detection Limit | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|

## Origins Laboratory

### E409484-02 (Soil)

### GBTEX+TMBs by 8260D

|                                 |       |        |  |  |  |             |            |            |  |
|---------------------------------|-------|--------|--|--|--|-------------|------------|------------|--|
| Surrogate: Toluene-d8           | 100 % | 70-130 |  |  |  | B4I173<br>6 | 09/17/2024 | 09/17/2024 |  |
| Surrogate: 4-Bromofluorobenzene | 108 % | 70-130 |  |  |  | "           | "          | "          |  |

### PAH by EPA 8270E extracted via 3580A

|                     |    |       |       |   |         |            |            |   |
|---------------------|----|-------|-------|---|---------|------------|------------|---|
| 1-Methylnaphthalene | ND | 0.002 | mg/kg | 1 | B4I1727 | 09/17/2024 | 09/17/2024 | U |
| 2-Methylnaphthalene | ND | 0.002 | "     | " | "       | "          | "          | U |
| Fluorene            | ND | 0.020 | "     | " | "       | "          | "          | U |
| Naphthalene         | ND | 0.002 | "     | " | "       | "          | "          | U |

|                                 |        |        |  |  |  |   |   |   |  |
|---------------------------------|--------|--------|--|--|--|---|---|---|--|
| Surrogate: Fluorene-d10         | 109 %  | 60-130 |  |  |  | " | " | " |  |
| Surrogate: Anthracene-d10       | 108 %  | 60-130 |  |  |  | " | " | " |  |
| Surrogate: Pyrene-d10           | 110 %  | 60-130 |  |  |  | " | " | " |  |
| Surrogate: Benzo (a) pyrene-d12 | 98.5 % | 60-130 |  |  |  | " | " | " |  |

### Table 915 metals by EPA 6020B

|         |       |        |       |    |         |            |            |  |
|---------|-------|--------|-------|----|---------|------------|------------|--|
| Arsenic | 3.64  | 0.259  | mg/kg | 10 | B4I1737 | 09/17/2024 | 09/18/2024 |  |
| Barium  | 214   | 8.94   | "     | "  | "       | "          | "          |  |
| Cadmium | 0.207 | 0.0894 | "     | "  | "       | "          | "          |  |
| Copper  | 13.3  | 8.94   | "     | "  | "       | "          | "          |  |
| Lead    | 12.5  | 0.894  | "     | "  | "       | "          | "          |  |
| Nickel  | 12.4  | 0.894  | "     | "  | "       | "          | "          |  |

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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-N01@4'

9/17/2024 2:45:00PM

| Analyte | Result | Min Detection<br>Limit | Reporting<br>Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|------------------------|--------------------|-------|----------|-------|----------|----------|-------|
|---------|--------|------------------------|--------------------|-------|----------|-------|----------|----------|-------|

**Origins Laboratory**  
**E409484-02 (Soil)**

**Table 915 metals by EPA 6020B**

|          |       |  |       |       |    |         |            |            |  |
|----------|-------|--|-------|-------|----|---------|------------|------------|--|
| Selenium | 0.366 |  | 0.233 | mg/kg | 10 | B411737 | 09/17/2024 | 09/18/2024 |  |
| Zinc     | 44.0  |  | 33.1  | "     | "  | "       | "          | "          |  |

**Total Metals 7196A**

|                      |    |       |     |       |   |         |            |            |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|
| Chromium, Hexavalent | ND | 0.244 | 0.5 | mg/Kg | 1 | L774298 | 09/17/2024 | 09/24/2024 |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|

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Jordan A. Bynon, Project Manager

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8000 W 44th Ave  
Wheat Ridge CO 80033

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

SEP-E01@4'  
9/17/2024 2:30:00PM

| Analyte | Result | Min Detection Limit | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|

## Origins Laboratory E409484-03 (Soil)

### Boron (DTPA Sorbitol)

|       |       |       |      |   |         |            |            |  |
|-------|-------|-------|------|---|---------|------------|------------|--|
| Boron | 0.536 | 0.100 | mg/L | 1 | B4I1809 | 09/18/2024 | 09/19/2024 |  |
|-------|-------|-------|------|---|---------|------------|------------|--|

### DRO/ORO by EPA 8015D

|                                   |    |      |       |   |         |            |            |   |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND | 25.0 | mg/kg | 1 | B4I1735 | 09/17/2024 | 09/18/2024 | U |
| Residual Range Organics (C28-C40) | ND | 100  | "     | " | "       | "          | "          | U |

|                        |        |        |  |  |   |   |   |  |
|------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 79.2 % | 50-150 |  |  | " | " | " |  |
|------------------------|--------|--------|--|--|---|---|---|--|

### GBTEX+TMBs by 8260D

|                             |    |         |       |   |         |            |            |   |
|-----------------------------|----|---------|-------|---|---------|------------|------------|---|
| 1,2,4-Trimethylbenzene      | ND | 0.00200 | mg/kg | 1 | B4I1736 | 09/17/2024 | 09/17/2024 | U |
| 1,3,5-Trimethylbenzene      | ND | 0.00200 | "     | " | "       | "          | "          | U |
| Benzene                     | ND | 0.00200 | "     | " | "       | "          | "          | U |
| Ethylbenzene                | ND | 0.00200 | "     | " | "       | "          | "          | U |
| Toluene                     | ND | 0.00200 | "     | " | "       | "          | "          | U |
| Xylenes, total              | ND | 0.00200 | "     | " | "       | "          | "          | U |
| Gasoline Range Hydrocarbons | ND | 0.200   | "     | " | "       | "          | "          | U |

|                                  |       |        |  |  |   |   |   |  |
|----------------------------------|-------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 129 % | 70-130 |  |  | " | " | " |  |
|----------------------------------|-------|--------|--|--|---|---|---|--|

Origins Laboratory



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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-E01@4'

9/17/2024 2:30:00PM

| Analyte | Result | Min Detection Limit | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|

## Origins Laboratory

### E409484-03 (Soil)

### GBTEX+TMBs by 8260D

|                                 |       |        |             |            |            |
|---------------------------------|-------|--------|-------------|------------|------------|
| Surrogate: Toluene-d8           | 100 % | 70-130 | B4I173<br>6 | 09/17/2024 | 09/17/2024 |
| Surrogate: 4-Bromofluorobenzene | 108 % | 70-130 | "           | "          | "          |

### PAH by EPA 8270E extracted via 3580A

|                     |    |       |       |   |         |            |            |   |
|---------------------|----|-------|-------|---|---------|------------|------------|---|
| 1-Methylnaphthalene | ND | 0.002 | mg/kg | 1 | B4I1727 | 09/17/2024 | 09/17/2024 | U |
| 2-Methylnaphthalene | ND | 0.002 | "     | " | "       | "          | "          | U |
| Fluorene            | ND | 0.020 | "     | " | "       | "          | "          | U |
| Naphthalene         | ND | 0.002 | "     | " | "       | "          | "          | U |

|                                 |        |        |   |   |   |
|---------------------------------|--------|--------|---|---|---|
| Surrogate: Fluorene-d10         | 94.9 % | 60-130 | " | " | " |
| Surrogate: Anthracene-d10       | 107 %  | 60-130 | " | " | " |
| Surrogate: Pyrene-d10           | 105 %  | 60-130 | " | " | " |
| Surrogate: Benzo (a) pyrene-d12 | 95.4 % | 60-130 | " | " | " |

### Table 915 metals by EPA 6020B

|         |       |        |       |    |         |            |            |
|---------|-------|--------|-------|----|---------|------------|------------|
| Arsenic | 3.21  | 0.284  | mg/kg | 10 | B4I1737 | 09/17/2024 | 09/18/2024 |
| Barium  | 124   | 9.81   | "     | "  | "       | "          | "          |
| Cadmium | 0.181 | 0.0981 | "     | "  | "       | "          | "          |
| Copper  | 10.7  | 9.81   | "     | "  | "       | "          | "          |
| Lead    | 10.2  | 0.981  | "     | "  | "       | "          | "          |
| Nickel  | 10.1  | 0.981  | "     | "  | "       | "          | "          |

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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-E01@4'

9/17/2024 2:30:00PM

| Analyte | Result | Min Detection<br>Limit | Reporting<br>Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|------------------------|--------------------|-------|----------|-------|----------|----------|-------|
|---------|--------|------------------------|--------------------|-------|----------|-------|----------|----------|-------|

**Origins Laboratory**  
**E409484-03 (Soil)**

**Table 915 metals by EPA 6020B**

|          |       |  |       |       |    |         |            |            |  |
|----------|-------|--|-------|-------|----|---------|------------|------------|--|
| Selenium | 0.491 |  | 0.255 | mg/kg | 10 | B411737 | 09/17/2024 | 09/18/2024 |  |
| Zinc     | ND    |  | 36.3  | "     | "  | "       | "          | "          |  |

**Total Metals 7196A**

|                      |    |       |     |       |   |         |            |            |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|
| Chromium, Hexavalent | ND | 0.244 | 0.5 | mg/Kg | 1 | L774298 | 09/17/2024 | 09/24/2024 |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|

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Jordan A. Bynon, Project Manager



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Wheat Ridge CO 80033

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

SEP-S01@4'  
9/17/2024 2:25:00PM

| Analyte | Result | Min Detection Limit | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|

**Origins Laboratory**  
**E409484-04 (Soil)**

**Boron (DTPA Sorbitol)**

|       |       |       |      |   |         |            |            |  |
|-------|-------|-------|------|---|---------|------------|------------|--|
| Boron | 0.597 | 0.101 | mg/L | 1 | B4I1809 | 09/18/2024 | 09/19/2024 |  |
|-------|-------|-------|------|---|---------|------------|------------|--|

**DRO/ORO by EPA 8015D**

|                                   |    |      |       |   |         |            |            |   |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND | 25.0 | mg/kg | 1 | B4I1735 | 09/17/2024 | 09/18/2024 | U |
| Residual Range Organics (C28-C40) | ND | 100  | "     | " | "       | "          | "          | U |

|                        |        |        |   |   |   |
|------------------------|--------|--------|---|---|---|
| Surrogate: o-Terphenyl | 81.8 % | 50-150 | " | " | " |
|------------------------|--------|--------|---|---|---|

**GBTEX+TMBs by 8260D**

|                             |    |         |       |   |         |            |            |   |
|-----------------------------|----|---------|-------|---|---------|------------|------------|---|
| 1,2,4-Trimethylbenzene      | ND | 0.00200 | mg/kg | 1 | B4I1736 | 09/17/2024 | 09/17/2024 | U |
| 1,3,5-Trimethylbenzene      | ND | 0.00200 | "     | " | "       | "          | "          | U |
| Benzene                     | ND | 0.00200 | "     | " | "       | "          | "          | U |
| Ethylbenzene                | ND | 0.00200 | "     | " | "       | "          | "          | U |
| Toluene                     | ND | 0.00200 | "     | " | "       | "          | "          | U |
| Xylenes, total              | ND | 0.00200 | "     | " | "       | "          | "          | U |
| Gasoline Range Hydrocarbons | ND | 0.200   | "     | " | "       | "          | "          | U |

|                                  |       |        |   |   |   |
|----------------------------------|-------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 128 % | 70-130 | " | " | " |
|----------------------------------|-------|--------|---|---|---|

Origins Laboratory

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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

SEP-S01@4'

9/17/2024 2:25:00PM

| Analyte | Result | Min Detection Limit | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|

## Origins Laboratory

### E409484-04 (Soil)

### GBTEX+TMBs by 8260D

|                                 |       |        |             |            |            |
|---------------------------------|-------|--------|-------------|------------|------------|
| Surrogate: Toluene-d8           | 100 % | 70-130 | B4I173<br>6 | 09/17/2024 | 09/17/2024 |
| Surrogate: 4-Bromofluorobenzene | 108 % | 70-130 | "           | "          | "          |

### PAH by EPA 8270E extracted via 3580A

|                     |    |       |       |   |         |            |            |   |
|---------------------|----|-------|-------|---|---------|------------|------------|---|
| 1-Methylnaphthalene | ND | 0.002 | mg/kg | 1 | B4I1727 | 09/17/2024 | 09/17/2024 | U |
| 2-Methylnaphthalene | ND | 0.002 | "     | " | "       | "          | "          | U |
| Fluorene            | ND | 0.020 | "     | " | "       | "          | "          | U |
| Naphthalene         | ND | 0.002 | "     | " | "       | "          | "          | U |

|                                 |        |        |   |   |   |
|---------------------------------|--------|--------|---|---|---|
| Surrogate: Fluorene-d10         | 95.3 % | 60-130 | " | " | " |
| Surrogate: Anthracene-d10       | 105 %  | 60-130 | " | " | " |
| Surrogate: Pyrene-d10           | 113 %  | 60-130 | " | " | " |
| Surrogate: Benzo (a) pyrene-d12 | 92.7 % | 60-130 | " | " | " |

### Table 915 metals by EPA 6020B

|         |       |        |       |    |         |            |            |
|---------|-------|--------|-------|----|---------|------------|------------|
| Arsenic | 3.01  | 0.255  | mg/kg | 10 | B4I1737 | 09/17/2024 | 09/18/2024 |
| Barium  | 130   | 8.79   | "     | "  | "       | "          | "          |
| Cadmium | 0.162 | 0.0879 | "     | "  | "       | "          | "          |
| Copper  | 9.85  | 8.79   | "     | "  | "       | "          | "          |
| Lead    | 8.26  | 0.879  | "     | "  | "       | "          | "          |
| Nickel  | 9.83  | 0.879  | "     | "  | "       | "          | "          |

Origins Laboratory



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Wheat Ridge CO 80033

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

SEP-S01@4'

9/17/2024 2:25:00PM

| Analyte | Result | Min Detection Limit | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|

## Origins Laboratory

### E409484-04 (Soil)

#### Table 915 metals by EPA 6020B

|          |       |  |       |       |    |         |            |            |  |
|----------|-------|--|-------|-------|----|---------|------------|------------|--|
| Selenium | 0.248 |  | 0.229 | mg/kg | 10 | B411737 | 09/17/2024 | 09/18/2024 |  |
| Zinc     | ND    |  | 32.5  | "     | "  | "       | "          | "          |  |

#### Total Metals 7196 A

|                      |    |       |     |       |   |         |            |            |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|
| Chromium, Hexavalent | ND | 0.244 | 0.5 | mg/Kg | 1 | L774300 | 09/17/2024 | 09/24/2024 |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|

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Wheat Ridge CO 80033

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

SEP-W01@4'

9/17/2024 2:34:00PM

| Analyte | Result | Min Detection Limit | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|

## Origins Laboratory E409484-05 (Soil)

### Boron (DTPA Sorbitol)

|       |       |       |      |   |         |            |            |  |
|-------|-------|-------|------|---|---------|------------|------------|--|
| Boron | 0.612 | 0.101 | mg/L | 1 | B4I1809 | 09/18/2024 | 09/19/2024 |  |
|-------|-------|-------|------|---|---------|------------|------------|--|

### DRO/ORO by EPA 8015D

|                                   |    |      |       |   |         |            |            |   |
|-----------------------------------|----|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND | 25.0 | mg/kg | 1 | B4I1735 | 09/17/2024 | 09/18/2024 | U |
| Residual Range Organics (C28-C40) | ND | 100  | "     | " | "       | "          | "          | U |

|                        |        |        |   |   |   |
|------------------------|--------|--------|---|---|---|
| Surrogate: o-Terphenyl | 83.6 % | 50-150 | " | " | " |
|------------------------|--------|--------|---|---|---|

### GBTEX+TMBs by 8260D

|                             |    |         |       |   |         |            |            |   |
|-----------------------------|----|---------|-------|---|---------|------------|------------|---|
| 1,2,4-Trimethylbenzene      | ND | 0.00200 | mg/kg | 1 | B4I1736 | 09/17/2024 | 09/17/2024 | U |
| 1,3,5-Trimethylbenzene      | ND | 0.00200 | "     | " | "       | "          | "          | U |
| Benzene                     | ND | 0.00200 | "     | " | "       | "          | "          | U |
| Ethylbenzene                | ND | 0.00200 | "     | " | "       | "          | "          | U |
| Toluene                     | ND | 0.00200 | "     | " | "       | "          | "          | U |
| Xylenes, total              | ND | 0.00200 | "     | " | "       | "          | "          | U |
| Gasoline Range Hydrocarbons | ND | 0.200   | "     | " | "       | "          | "          | U |

|                                  |       |        |   |   |   |
|----------------------------------|-------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 128 % | 70-130 | " | " | " |
|----------------------------------|-------|--------|---|---|---|

Origins Laboratory



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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-W01@4'

9/17/2024 2:34:00PM

| Analyte | Result | Min Detection Limit | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|

## Origins Laboratory

### E409484-05 (Soil)

### GBTEX+TMBs by 8260D

|                                 |        |        |             |            |            |
|---------------------------------|--------|--------|-------------|------------|------------|
| Surrogate: Toluene-d8           | 98.5 % | 70-130 | B4I173<br>6 | 09/17/2024 | 09/17/2024 |
| Surrogate: 4-Bromofluorobenzene | 110 %  | 70-130 | "           | "          | "          |

### PAH by EPA 8270E extracted via 3580A

|                     |    |       |       |   |         |            |            |   |
|---------------------|----|-------|-------|---|---------|------------|------------|---|
| 1-Methylnaphthalene | ND | 0.002 | mg/kg | 1 | B4I1727 | 09/17/2024 | 09/17/2024 | U |
| 2-Methylnaphthalene | ND | 0.002 | "     | " | "       | "          | "          | U |
| Fluorene            | ND | 0.020 | "     | " | "       | "          | "          | U |
| Naphthalene         | ND | 0.002 | "     | " | "       | "          | "          | U |

|                                 |        |        |   |   |   |
|---------------------------------|--------|--------|---|---|---|
| Surrogate: Fluorene-d10         | 103 %  | 60-130 | " | " | " |
| Surrogate: Anthracene-d10       | 102 %  | 60-130 | " | " | " |
| Surrogate: Pyrene-d10           | 113 %  | 60-130 | " | " | " |
| Surrogate: Benzo (a) pyrene-d12 | 98.4 % | 60-130 | " | " | " |

### Table 915 metals by EPA 6020B

|         |       |        |       |    |         |            |            |
|---------|-------|--------|-------|----|---------|------------|------------|
| Arsenic | 1.12  | 0.246  | mg/kg | 10 | B4I1737 | 09/17/2024 | 09/18/2024 |
| Barium  | 49.8  | 8.47   | "     | "  | "       | "          | "          |
| Cadmium | 0.121 | 0.0847 | "     | "  | "       | "          | "          |
| Copper  | 14.0  | 8.47   | "     | "  | "       | "          | "          |
| Lead    | 26.7  | 0.847  | "     | "  | "       | "          | "          |
| Nickel  | 12.6  | 0.847  | "     | "  | "       | "          | "          |

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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-W01@4'

9/17/2024 2:34:00PM

| Analyte | Result | Min Detection Limit | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Notes |
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|
|---------|--------|---------------------|-----------------|-------|----------|-------|----------|----------|-------|

**Origins Laboratory**  
**E409484-05 (Soil)**

**Table 915 metals by EPA 6020B**

|          |      |  |       |       |    |         |            |            |  |
|----------|------|--|-------|-------|----|---------|------------|------------|--|
| Selenium | ND   |  | 0.220 | mg/kg | 10 | B411737 | 09/17/2024 | 09/18/2024 |  |
| Zinc     | 39.1 |  | 31.3  | "     | "  | "       | "          | "          |  |

**Total Metals 7196 A**

|                      |    |       |     |       |   |         |            |            |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|
| Chromium, Hexavalent | ND | 0.244 | 0.5 | mg/Kg | 1 | L774300 | 09/17/2024 | 09/24/2024 |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|

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Jordan A. Bynon, Project Manager



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8000 W 44th Ave  
Wheat Ridge CO 80033

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

Extractable Petroleum Hydrocarbons by 8015D - Quality Control  
Origins Laboratory

| Analyte                           | Result | Reporting Limit | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| Batch B4I1735 - EPA 3550B         |        |                 |       |             |   |      |             |     |           |       |
| Blank (B4I1735-BLK1)              |        |                 |       |             | Prepared: 09/17/2024 Analyzed: 09/18/2024 |      |             |     |           |       |
| Diesel (C10-C28)                  | ND     | 25.0            | mg/kg |             |   |      |             |     |           | U     |
| Residual Range Organics (C28-C40) | ND     | 100             | "     |             |   |      |             |     |           | U     |
| Surrogate: o-Terphenyl            | 23     |                 | "     | 24.9        |   | 91.2 | 50-150      |     |           |       |

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Jordan A. Bynon, Project Manager



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Wheat Ridge CO 80033

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

Extractable Petroleum Hydrocarbons by 8015D - Quality Control  
Origins Laboratory

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

Batch B4I1735 - EPA 3550B

LCS (B4I1735-BS1)

Prepared: 09/17/2024 Analyzed: 09/18/2024

|                                   |      |      |       |      |  |     |        |  |  |       |
|-----------------------------------|------|------|-------|------|--|-----|--------|--|--|-------|
| Diesel (C10-C28)                  | 1220 | 50.0 | mg/kg | 1000 |  | 122 | 70-130 |  |  |       |
| Residual Range Organics (C28-C40) | 1310 | 200  | "     | 1000 |  | 131 | 70-130 |  |  | QM-11 |
| Surrogate: o-Terphenyl            | 62   |      | "     | 49.8 |  | 124 | 50-150 |  |  |       |

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Wheat Ridge CO 80033

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

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

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

**Batch B4I1735 - EPA 3550B**

| Matrix Spike (B4I1735-MS1)        |      | Source: E409479-01 |       |      | Prepared: 09/17/2024 Analyzed: 09/18/2024 |     |        |  |  |  |
|-----------------------------------|------|--------------------|-------|------|---|-----|--------|--|--|--|
| Diesel (C10-C28)                  | 1110 | 50.0               | mg/kg | 1000 | ND  | 111 | 70-130 |  |  |  |
| Residual Range Organics (C28-C40) | 1200 | 200                | "     | 1000 | ND  | 120 | 70-130 |  |  |  |
| Surrogate: o-Terphenyl            | 50   |                    | "     | 49.8 |   | 101 | 50-150 |  |  |  |

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Jordan A. Bynon, Project Manager





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Wheat Ridge CO 80033

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

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

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

Batch B4I1735 - EPA 3550B

| Matrix Spike Dup (B4I1735-MSD1)   |      | Source: E409479-01 |       |      | Prepared: 09/17/2024 Analyzed: 09/18/2024 |     |        |      |    |  |
|-----------------------------------|------|--------------------|-------|------|---|-----|--------|------|----|--|
| Diesel (C10-C28)                  | 1140 | 50.0               | mg/kg | 1000 | ND  | 114 | 70-130 | 2.67 | 35 |  |
| Residual Range Organics (C28-C40) | 1220 | 200                | "     | 1000 | ND  | 122 | 70-130 | 1.59 | 35 |  |
| Surrogate: o-Terphenyl            | 54   |                    | "     | 49.8 |   | 108 | 50-150 |      |    |  |

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Jordan A. Bynon, Project Manager



Eagle Environmental Consulting, LLC  
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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**

| Analyte                                | Result | Reporting Limit | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B4I1736 - EPA 5030 (soil)</b> |        |                 |       |             |   |      |             |     |           |       |
| <b>Blank (B4I1736-BLK1)</b>            |        |                 |       |             | Prepared: 09/17/2024 Analyzed: 09/17/2024 |      |             |     |           |       |
| 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       | 111                                       |      | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 0.13   |                 | "     | 0.125       | 103                                       |      | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 0.13   |                 | "     | 0.125       | 107                                       |      | 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

| Analyte                          | Result | Reporting Limit | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD | RPD Limit | Notes |
|----------------------------------|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| Batch B4I1736 - EPA 5030 (soil)  |        |                 |       |             |   |      |             |     |           |       |
| LCS (B4I1736-BS1)                |        |                 |       |             | Prepared: 09/17/2024 Analyzed: 09/17/2024 |      |             |     |           |       |
| 1,2,4-Trimethylbenzene           | 0.101  | 0.00200         | mg/kg | 0.100       |   | 101  | 70-130      |     |           |       |
| 1,3,5-Trimethylbenzene           | 0.107  | 0.00200         | "     | 0.100       |   | 107  | 70-130      |     |           |       |
| Benzene                          | 0.116  | 0.00200         | "     | 0.100       |   | 116  | 70-130      |     |           |       |
| Ethylbenzene                     | 0.107  | 0.00200         | "     | 0.100       |   | 107  | 70-130      |     |           |       |
| Naphthalene                      | 0.104  | 0.00380         | "     | 0.100       |   | 104  | 70-130      |     |           |       |
| Toluene                          | 0.112  | 0.00200         | "     | 0.100       |   | 112  | 70-130      |     |           |       |
| o-Xylene                         | 0.106  | 0.00200         | "     | 0.100       |   | 106  | 70-130      |     |           |       |
| m,p-Xylene                       | 0.208  | 0.00400         | "     | 0.200       |   | 104  | 70-130      |     |           |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.14   |                 | "     | 0.125       |   | 115  | 70-130      |     |           |       |
| Surrogate: Toluene-d8            | 0.13   |                 | "     | 0.125       |   | 100  | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene  | 0.13   |                 | "     | 0.125       |   | 103  | 70-130      |     |           |       |

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

## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

### Origins Laboratory

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

#### Batch B4I1736 - EPA 5030 (soil)

| Matrix Spike (B4I1736-MS1)       |       | Source: E409482-01 |       |       | Prepared: 09/17/2024 Analyzed: 09/17/2024 |     |        |  |  |  |
|----------------------------------|-------|--------------------|-------|-------|---|-----|--------|--|--|--|
| 1,2,4-Trimethylbenzene           | 0.105 | 0.00200            | mg/kg | 0.100 | ND  | 105 | 70-130 |  |  |  |
| 1,3,5-Trimethylbenzene           | 0.104 | 0.00200            | "     | 0.100 | ND  | 104 | 70-130 |  |  |  |
| Benzene                          | 0.116 | 0.00200            | "     | 0.100 | ND  | 116 | 70-130 |  |  |  |
| Ethylbenzene                     | 0.106 | 0.00200            | "     | 0.100 | ND  | 106 | 70-130 |  |  |  |
| Naphthalene                      | 0.108 | 0.00380            | "     | 0.100 | ND  | 108 | 70-130 |  |  |  |
| Toluene                          | 0.111 | 0.00200            | "     | 0.100 | ND  | 111 | 70-130 |  |  |  |
| o-Xylene                         | 0.104 | 0.00200            | "     | 0.100 | ND  | 104 | 70-130 |  |  |  |
| m,p-Xylene                       | 0.204 | 0.00400            | "     | 0.200 | ND  | 102 | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.15  |                    | "     | 0.125 |   | 116 | 70-130 |  |  |  |
| Surrogate: Toluene-d8            | 0.13  |                    | "     | 0.125 |   | 101 | 70-130 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.13  |                    | "     | 0.125 |   | 103 | 70-130 |  |  |  |

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## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

### Origins Laboratory

| Analyte                          | Result | Reporting Limit | Units              | Spike Level | Source Result                             | %REC | %REC Limits | RPD  | RPD Limit | Notes |
|----------------------------------|--------|-----------------|--------------------|-------------|---|------|-------------|------|-----------|-------|
| Batch B4I1736 - EPA 5030 (soil)  |        |                 |                    |             |   |      |             |      |           |       |
| Matrix Spike Dup (B4I1736-MSD1)  |        |                 | Source: E409482-01 |             | Prepared: 09/17/2024 Analyzed: 09/17/2024 |      |             |      |           |       |
| 1,2,4-Trimethylbenzene           | 0.102  | 0.00200         | mg/kg              | 0.100       | ND  | 102  | 70-130      | 2.34 | 20        |       |
| 1,3,5-Trimethylbenzene           | 0.102  | 0.00200         | "                  | 0.100       | ND  | 102  | 70-130      | 2.04 | 20        |       |
| Benzene                          | 0.114  | 0.00200         | "                  | 0.100       | ND  | 114  | 70-130      | 1.63 | 20        |       |
| Ethylbenzene                     | 0.102  | 0.00200         | "                  | 0.100       | ND  | 102  | 70-130      | 3.50 | 20        |       |
| Naphthalene                      | 0.114  | 0.00380         | "                  | 0.100       | ND  | 114  | 70-130      | 4.70 | 20        |       |
| Toluene                          | 0.109  | 0.00200         | "                  | 0.100       | ND  | 109  | 70-130      | 2.07 | 20        |       |
| o-Xylene                         | 0.102  | 0.00200         | "                  | 0.100       | ND  | 102  | 70-130      | 2.41 | 20        |       |
| m,p-Xylene                       | 0.198  | 0.00400         | "                  | 0.200       | ND  | 99.1 | 70-130      | 2.94 | 20        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.15   |                 | "                  | 0.125       |   | 123  | 70-130      |      |           |       |
| Surrogate: Toluene-d8            | 0.12   |                 | "                  | 0.125       |   | 98.7 | 70-130      |      |           |       |
| Surrogate: 4-Bromofluorobenzene  | 0.13   |                 | "                  | 0.125       |   | 103  | 70-130      |      |           |       |

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

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

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

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

**Batch B4I1737 - EPA 3050B**

**Blank (B4I1737-BLK1)**

Prepared: 09/17/2024 Analyzed: 09/18/2024

|          |    |       |       |
|----------|----|-------|-------|
| 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 (B4I1737-BS1)**

Prepared: 09/17/2024 Analyzed: 09/18/2024

|          |      |       |       |      |      |        |
|----------|------|-------|-------|------|------|--------|
| Arsenic  | 4.68 | 0.290 | mg/kg | 5.00 | 93.6 | 80-120 |
| Barium   | 509  | 10.0  | "     | 500  | 102  | 80-120 |
| Cadmium  | 5.15 | 0.100 | "     | 5.00 | 103  | 80-120 |
| Copper   | 48.2 | 10.0  | "     | 50.0 | 96.4 | 80-120 |
| Lead     | 5.09 | 1.00  | "     | 5.00 | 102  | 80-120 |
| Nickel   | 4.95 | 1.00  | "     | 5.00 | 99.0 | 80-120 |
| Selenium | 5.36 | 0.260 | "     | 5.00 | 107  | 80-120 |
| Silver   | 5.14 | 0.100 | "     | 5.00 | 103  | 80-120 |
| Zinc     | 45.7 | 37.0  | "     | 50.0 | 91.4 | 80-120 |

**Matrix Spike (B4I1737-MS1)**

**Source: E409482-01**

Prepared: 09/17/2024 Analyzed: 09/18/2024

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

## Metals by EPA 6000/7000 Series Methods - Quality Control

### Origins Laboratory

| Analyte                                | Result | Reporting Limit | Units                     | Spike Level | Source Result                             | %REC | %REC Limits | RPD   | RPD Limit | Notes |
|--|--------|-----------------|---------------------------|-------------|---|------|-------------|-------|-----------|-------|
| <b>Batch B4I1737 - EPA 3050B</b>       |        |                 |                           |             |   |      |             |       |           |       |
| <b>Matrix Spike (B4I1737-MS1)</b>      |        |                 | <b>Source: E409482-01</b> |             | Prepared: 09/17/2024 Analyzed: 09/18/2024 |      |             |       |           |       |
| Arsenic                                | 8.32   | 0.264           | mg/kg                     | 4.56        | 3.26                                      | 111  | 75-125      |       |           |       |
| Barium                                 | 582    | 9.12            | "                         | 456         | 94.1                                      | 107  | 75-125      |       |           |       |
| Cadmium                                | 5.06   | 0.0912          | "                         | 4.56        | 0.168                                     | 107  | 75-125      |       |           |       |
| Copper                                 | 63.8   | 9.12            | "                         | 45.6        | 14.8                                      | 107  | 75-125      |       |           |       |
| Lead                                   | 16.6   | 0.912           | "                         | 4.56        | 11.8                                      | 104  | 75-125      |       |           |       |
| Nickel                                 | 19.4   | 0.912           | "                         | 4.56        | 11.4                                      | 175  | 75-125      |       |           | QM-07 |
| Selenium                               | 4.86   | 0.237           | "                         | 4.56        | 0.194                                     | 102  | 75-125      |       |           |       |
| Silver                                 | 4.87   | 0.0912          | "                         | 4.56        | 0.0803                                    | 105  | 75-125      |       |           |       |
| Zinc                                   | 91.3   | 33.7            | "                         | 45.6        | 44.1                                      | 103  | 75-125      |       |           |       |
| <b>Matrix Spike Dup (B4I1737-MSD1)</b> |        |                 | <b>Source: E409482-01</b> |             | Prepared: 09/17/2024 Analyzed: 09/18/2024 |      |             |       |           |       |
| Arsenic                                | 8.05   | 0.266           | mg/kg                     | 4.58        | 3.26                                      | 105  | 75-125      | 3.40  | 20        |       |
| Barium                                 | 542    | 9.16            | "                         | 458         | 94.1                                      | 97.9 | 75-125      | 7.10  | 20        |       |
| Cadmium                                | 4.80   | 0.0916          | "                         | 4.58        | 0.168                                     | 101  | 75-125      | 5.21  | 20        |       |
| Copper                                 | 60.7   | 9.16            | "                         | 45.8        | 14.8                                      | 100  | 75-125      | 5.05  | 20        |       |
| Lead                                   | 16.7   | 0.916           | "                         | 4.58        | 11.8                                      | 106  | 75-125      | 0.712 | 20        |       |
| Nickel                                 | 18.2   | 0.916           | "                         | 4.58        | 11.4                                      | 148  | 75-125      | 6.38  | 20        | QM-07 |
| Selenium                               | 4.56   | 0.238           | "                         | 4.58        | 0.194                                     | 95.4 | 75-125      | 6.41  | 20        |       |
| Silver                                 | 4.72   | 0.0916          | "                         | 4.58        | 0.0803                                    | 101  | 75-125      | 3.03  | 20        |       |
| Zinc                                   | 89.1   | 33.9            | "                         | 45.8        | 44.1                                      | 98.3 | 75-125      | 2.39  | 20        |       |

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## EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control

### Origins Laboratory

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

#### Batch B4I1727 - EPA 3580

#### Blank (B4I1727-BLK1)

Prepared: 09/17/2024 Analyzed: 09/17/2024

|                                 |     |       |       |     |  |     |        |  |  |   |
|---------------------------------|-----|-------|-------|-----|--|-----|--------|--|--|---|
| 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         | 240 |       | ug/kg | 200 |  | 118 | 60-130 |  |  |   |
| Surrogate: Anthracene-d10       | 210 |       | "     | 200 |  | 107 | 60-130 |  |  |   |
| Surrogate: Pyrene-d10           | 200 |       | "     | 200 |  | 101 | 60-130 |  |  |   |
| Surrogate: Benzo (a) pyrene-d12 | 210 |       | "     | 200 |  | 105 | 60-130 |  |  |   |

#### LCS (B4I1727-BS1)

Prepared: 09/17/2024 Analyzed: 09/17/2024

|                     |       |       |       |       |  |      |        |  |  |  |
|---------------------|-------|-------|-------|-------|--|------|--------|--|--|--|
| 1-Methylnaphthalene | 0.200 | 0.002 | mg/kg | 0.200 |  | 99.8 | 70-130 |  |  |  |
| 2-Methylnaphthalene | 0.198 | 0.002 | "     | 0.200 |  | 98.8 | 70-130 |  |  |  |
| Acenaphthene        | 0.209 | 0.020 | "     | 0.200 |  | 104  | 70-130 |  |  |  |
| Anthracene          | 0.216 | 0.020 | "     | 0.200 |  | 108  | 70-130 |  |  |  |

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Project: KMG - Dehaan V27-10,15 Facility

## EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control

### Origins Laboratory

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

#### Batch B411727 - EPA 3580

#### LCS (B411727-BS1)

Prepared: 09/17/2024 Analyzed: 09/17/2024

|                                 |       |       |       |       |  |      |        |
|---------------------------------|-------|-------|-------|-------|--|------|--------|
| Benzo (a) anthracene            | 0.193 | 0.005 | mg/kg | 0.200 |  | 96.5 | 70-130 |
| Benzo (a) pyrene                | 0.192 | 0.020 | "     | 0.200 |  | 96.1 | 70-130 |
| Benzo (b) fluoranthene          | 0.204 | 0.020 | "     | 0.200 |  | 102  | 70-130 |
| Benzo (g,h,i) perylene          | 0.189 | 0.020 | "     | 0.200 |  | 94.4 | 70-130 |
| Benzo (k) fluoranthene          | 0.161 | 0.020 | "     | 0.200 |  | 80.6 | 70-130 |
| Chrysene                        | 0.192 | 0.020 | "     | 0.200 |  | 95.8 | 70-130 |
| Dibenz (a,h) anthracene         | 0.215 | 0.020 | "     | 0.200 |  | 108  | 70-130 |
| Fluoranthene                    | 0.193 | 0.020 | "     | 0.200 |  | 96.7 | 70-130 |
| Fluorene                        | 0.206 | 0.020 | "     | 0.200 |  | 103  | 70-130 |
| Indeno (1,2,3-cd) pyrene        | 0.201 | 0.020 | "     | 0.200 |  | 100  | 70-130 |
| Naphthalene                     | 0.210 | 0.002 | "     | 0.200 |  | 105  | 70-130 |
| Phenanthrene                    | 0.213 | 0.020 | "     | 0.200 |  | 106  | 70-130 |
| Pyrene                          | 0.199 | 0.020 | "     | 0.200 |  | 99.3 | 70-130 |
| Surrogate: Fluorene-d10         | 190   |       | ug/kg | 200   |  | 96.6 | 60-130 |
| Surrogate: Anthracene-d10       | 230   |       | "     | 200   |  | 114  | 60-130 |
| Surrogate: Pyrene-d10           | 190   |       | "     | 200   |  | 95.7 | 60-130 |
| Surrogate: Benzo (a) pyrene-d12 | 200   |       | "     | 200   |  | 101  | 60-130 |

#### Matrix Spike (B411727-MS1)

Source: E409472-01

Prepared: 09/17/2024 Analyzed: 09/17/2024

|                        |       |       |       |       |        |      |        |
|------------------------|-------|-------|-------|-------|--------|------|--------|
| 1-Methylnaphthalene    | 0.208 | 0.002 | mg/kg | 0.200 | ND     | 104  | 70-130 |
| 2-Methylnaphthalene    | 0.209 | 0.002 | "     | 0.200 | ND     | 105  | 70-130 |
| Acenaphthene           | 0.206 | 0.020 | "     | 0.200 | 0.0006 | 103  | 70-130 |
| Anthracene             | 0.216 | 0.020 | "     | 0.200 | 0.005  | 106  | 70-130 |
| Benzo (a) anthracene   | 0.216 | 0.005 | "     | 0.200 | 0.003  | 107  | 70-130 |
| Benzo (a) pyrene       | 0.195 | 0.020 | "     | 0.200 | 0.004  | 95.3 | 70-130 |
| Benzo (b) fluoranthene | 0.221 | 0.020 | "     | 0.200 | 0.005  | 108  | 70-130 |
| Benzo (g,h,i) perylene | 0.197 | 0.020 | "     | 0.200 | 0.006  | 95.4 | 70-130 |

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Wheat Ridge CO 80033

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

## EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control

### Origins Laboratory

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

#### Batch B4I1727 - EPA 3580

| Matrix Spike (B4I1727-MS1)      |       | Source: E409472-01 |       |       | Prepared: 09/17/2024 Analyzed: 09/17/2024 |      |        |  |  |  |
|---------------------------------|-------|--------------------|-------|-------|---|------|--------|--|--|--|
| Benzo (k) fluoranthene          | 0.169 | 0.020              | mg/kg | 0.200 | 0.005                                     | 82.1 | 70-130 |  |  |  |
| Chrysene                        | 0.199 | 0.020              | "     | 0.200 | 0.004                                     | 97.4 | 70-130 |  |  |  |
| Dibenz (a,h) anthracene         | 0.215 | 0.020              | "     | 0.200 | 0.010                                     | 103  | 70-130 |  |  |  |
| Fluoranthene                    | 0.202 | 0.020              | "     | 0.200 | 0.003                                     | 99.5 | 70-130 |  |  |  |
| Fluorene                        | 0.211 | 0.020              | "     | 0.200 | 0.007                                     | 102  | 70-130 |  |  |  |
| Indeno (1,2,3-cd) pyrene        | 0.200 | 0.020              | "     | 0.200 | 0.009                                     | 95.9 | 70-130 |  |  |  |
| Naphthalene                     | 0.212 | 0.002              | "     | 0.200 | ND  | 106  | 70-130 |  |  |  |
| Phenanthrene                    | 0.211 | 0.020              | "     | 0.200 | 0.0005                                    | 105  | 70-130 |  |  |  |
| Pyrene                          | 0.204 | 0.020              | "     | 0.200 | 0.002                                     | 101  | 70-130 |  |  |  |
| Surrogate: Fluorene-d10         | 200   |                    | ug/kg | 200   |   | 99.4 | 60-130 |  |  |  |
| Surrogate: Anthracene-d10       | 230   |                    | "     | 200   |   | 114  | 60-130 |  |  |  |
| Surrogate: Pyrene-d10           | 200   |                    | "     | 200   |   | 99.8 | 60-130 |  |  |  |
| Surrogate: Benzo (a) pyrene-d12 | 210   |                    | "     | 200   |   | 106  | 60-130 |  |  |  |

| Matrix Spike Dup (B4I1727-MSD1) |       | Source: E409472-01 |       |       | Prepared: 09/17/2024 Analyzed: 09/17/2024 |      |        |       |    |  |
|---------------------------------|-------|--------------------|-------|-------|---|------|--------|-------|----|--|
| 1-Methylnaphthalene             | 0.184 | 0.002              | mg/kg | 0.200 | ND  | 92.2 | 70-130 | 11.9  | 20 |  |
| 2-Methylnaphthalene             | 0.187 | 0.002              | "     | 0.200 | ND  | 93.3 | 70-130 | 11.4  | 20 |  |
| Acenaphthene                    | 0.206 | 0.020              | "     | 0.200 | 0.0006                                    | 103  | 70-130 | 0.242 | 20 |  |
| Anthracene                      | 0.212 | 0.020              | "     | 0.200 | 0.005                                     | 103  | 70-130 | 1.93  | 20 |  |
| Benzo (a) anthracene            | 0.203 | 0.005              | "     | 0.200 | 0.003                                     | 100  | 70-130 | 6.25  | 20 |  |
| Benzo (a) pyrene                | 0.197 | 0.020              | "     | 0.200 | 0.004                                     | 96.2 | 70-130 | 0.878 | 20 |  |
| Benzo (b) fluoranthene          | 0.210 | 0.020              | "     | 0.200 | 0.005                                     | 103  | 70-130 | 5.06  | 20 |  |
| Benzo (g,h,i) perylene          | 0.187 | 0.020              | "     | 0.200 | 0.006                                     | 90.7 | 70-130 | 4.89  | 20 |  |
| Benzo (k) fluoranthene          | 0.170 | 0.020              | "     | 0.200 | 0.005                                     | 82.6 | 70-130 | 0.536 | 20 |  |
| Chrysene                        | 0.201 | 0.020              | "     | 0.200 | 0.004                                     | 98.2 | 70-130 | 0.745 | 20 |  |
| Dibenz (a,h) anthracene         | 0.232 | 0.020              | "     | 0.200 | 0.010                                     | 111  | 70-130 | 7.74  | 20 |  |
| Fluoranthene                    | 0.186 | 0.020              | "     | 0.200 | 0.003                                     | 91.6 | 70-130 | 8.13  | 20 |  |

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

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

**Batch B4I1727 - EPA 3580**

| Matrix Spike Dup (B4I1727-MSD1) |       | Source: E409472-01 |       |       | Prepared: 09/17/2024 Analyzed: 09/17/2024 |      |        |       |    |  |
|---------------------------------|-------|--------------------|-------|-------|---|------|--------|-------|----|--|
| Fluorene                        | 0.211 | 0.020              | mg/kg | 0.200 | 0.007                                     | 102  | 70-130 | 0.156 | 20 |  |
| Indeno (1,2,3-cd) pyrene        | 0.217 | 0.020              | "     | 0.200 | 0.009                                     | 104  | 70-130 | 8.06  | 20 |  |
| Naphthalene                     | 0.201 | 0.002              | "     | 0.200 | ND  | 100  | 70-130 | 5.38  | 20 |  |
| Phenanthrene                    | 0.207 | 0.020              | "     | 0.200 | 0.0005                                    | 103  | 70-130 | 1.76  | 20 |  |
| Pyrene                          | 0.181 | 0.020              | "     | 0.200 | 0.002                                     | 89.2 | 70-130 | 12.3  | 20 |  |
| Surrogate: Fluorene-d10         | 220   |                    | ug/kg | 200   |   | 109  | 60-130 |       |    |  |
| Surrogate: Anthracene-d10       | 230   |                    | "     | 200   |   | 115  | 60-130 |       |    |  |
| Surrogate: Pyrene-d10           | 180   |                    | "     | 200   |   | 90.8 | 60-130 |       |    |  |
| Surrogate: Benzo (a) pyrene-d12 | 210   |                    | "     | 200   |   | 104  | 60-130 |       |    |  |

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Jordan A. Bynon, Project Manager



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Classical Chemistry Parameters - Quality Control  
Origins Laboratory

| Analyte                                   | Result | Reporting Limit | Units | Spike Level | Source Result  | %REC | %REC Limits | RPD  | RPD Limit | Notes |
|---|--------|-----------------|-------|-------------|--|------|-------------|------|-----------|-------|
| Batch B4I1809 - DTPA Sorbitol Preparation |        |                 |       |             |  |      |             |      |           |       |
| Blank (B4I1809-BLK1)                      |        |                 |       |             | Prepared: 09/18/2024 Analyzed: 09/19/2024                    |      |             |      |           |       |
| Boron                                     | ND     | 0.100           | mg/L  |             |  |      |             |      |           |       |
| Duplicate (B4I1809-DUP1)                  |        |                 |       |             | Source: E409482-01 Prepared: 09/18/2024 Analyzed: 09/19/2024 |      |             |      |           |       |
| Boron                                     | 0.400  | 0.0994          | mg/L  |             | 0.387  |      |             | 3.27 | 50        |       |

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

## Total Metals 7196 A - Quality Control Waypoint Analytical, LLC.

| Analyte                  | Result | Reporting Limit      | Units | Spike Level | Source Result                  | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------|--------|----------------------|-------|-------------|--------------------------------|------|-------------|-----|-----------|-------|
| <b>Batch L774300 -</b>   |        |                      |       |             |                                |      |             |     |           |       |
| <b>DUP (L 91771-DUP)</b> |        | <b>Source: 91771</b> |       |             | Prepared: Analyzed: 09/24/2024 |      |             |     |           |       |
| Chromium, Hexavalent     | ND     | 0.5                  | mg/Kg |             | <0.500                         |      | -           | 0   | 20        |       |
| <b>MS (L 91771-MS)</b>   |        | <b>Source: 91771</b> |       |             | Prepared: Analyzed: 09/24/2024 |      |             |     |           |       |
| Chromium, Hexavalent     | 31.8   | 2.5                  | mg/Kg | 39.8        | <1.22                          | 80   | 75-125      |     |           |       |
| <b>LCS (LCS)</b>         |        |                      |       |             | Prepared: Analyzed: 09/24/2024 |      |             |     |           |       |
| Chromium, Hexavalent     | 6.79   | 0.5                  | mg/Kg | 8           |                                | 85   | 75-125      |     |           |       |
| <b>LRB (LRB)</b>         |        |                      |       |             | Prepared: Analyzed: 09/24/2024 |      |             |     |           |       |
| Chromium, Hexavalent     | ND     | 0.5                  | mg/Kg |             |                                |      | -           |     |           |       |

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## Total Metals 7196A - Quality Control Waypoint Analytical, LLC.

| Analyte                  | Result | Reporting Limit      | Units | Spike Level | Source Result                  | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------|--------|----------------------|-------|-------------|--------------------------------|------|-------------|-----|-----------|-------|
| <b>Batch L774298 -</b>   |        |                      |       |             |                                |      |             |     |           |       |
| <b>DUP (L 91762-DUP)</b> |        | <b>Source: 91762</b> |       |             | Prepared: Analyzed: 09/24/2024 |      |             |     |           |       |
| Chromium, Hexavalent     | ND     | 0.5                  | mg/Kg |             | <0.500                         | -    |             | 0   | 20        |       |
| <b>MS (L 91762-MS)</b>   |        | <b>Source: 91762</b> |       |             | Prepared: Analyzed: 09/24/2024 |      |             |     |           |       |
| Chromium, Hexavalent     | 29.5   | 2.5                  | mg/Kg | 39.5        | < 0.244                        | 75   | 75-125      |     |           |       |
| <b>LCS (LCS)</b>         |        |                      |       |             | Prepared: Analyzed: 09/24/2024 |      |             |     |           |       |
| Chromium, Hexavalent     | 6.81   | 0.5                  | mg/Kg | 8           |                                | 85   | 75-125      |     |           |       |
| <b>LRB (LRB)</b>         |        |                      |       |             | Prepared: Analyzed: 09/24/2024 |      |             |     |           |       |
| Chromium, Hexavalent     | ND     | 0.5                  | mg/Kg |             |                                |      | -           |     |           |       |

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## Notes and Definitions

U Sample is Non-Detect.

QM-11 Spike recovery was outside acceptance limits for LCS, however samples are non-detect for this compound.

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.

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