



February 05, 2024

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - Russell 12-31 Wellhead      Project Number - 09A1417564**

Attached are your analytical results for KMG - Russell 12-31 Wellhead received by Origins Laboratory, Inc. January 24, 2024. This project is associated with Origins project number Y401583-01.

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

Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A1417564  
Project: KMG - Russell 12-31 Wellhead

## CROSS REFERENCE REPORT

| Sample ID      | Laboratory ID | Matrix | Date Sampled           | Date Received    |
|----------------|---------------|--------|------------------------|------------------|
| FL01@4'        | Y401583-01    | Soil   | January 24, 2024 13:30 | 01/24/2024 17:21 |
| B01@7'         | Y401583-02    | Soil   | January 24, 2024 14:00 | 01/24/2024 17:21 |
| WH01-RISER@4'  | Y401583-03    | Soil   | January 24, 2024 14:05 | 01/24/2024 17:21 |
| NATIVE-BG01@3' | Y401583-04    | Soil   | January 24, 2024 13:15 | 01/24/2024 17:21 |
| NATIVE-BG01@6' | Y401583-05    | Soil   | January 24, 2024 13:17 | 01/24/2024 17:21 |
| NATIVE-BG02@3' | Y401583-06    | Soil   | January 24, 2024 13:18 | 01/24/2024 17:21 |
| NATIVE-BG02@6' | Y401583-07    | Soil   | January 24, 2024 13:20 | 01/24/2024 17:21 |
| NATIVE-BG03@3' | Y401583-08    | Soil   | January 24, 2024 13:25 | 01/24/2024 17:21 |
| NATIVE-BG03@6' | Y401583-09    | Soil   | January 24, 2024 13:27 | 01/24/2024 17:21 |

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 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.7645

4401543

www.originslab.com

Client: ENSOLUM  
 Address: KMG 166m  
 Project Manager: J. Espinoza  
 Project Name: Russell 12-31 Wellhead  
 Project Number: 09A1417564

Telephone Number: \_\_\_\_\_  
 Email Address: KMG 166m  
 Samples Collected By: J. Espinoza

| Sample ID/Description | Date Sampled | Time Sampled | # of Containers | Preservative |     |     |       | Matrix      |      |                      | Analysis |     | Sample Instructions |      |          |          |
|-----------------------|--------------|--------------|-----------------|--------------|-----|-----|-------|-------------|------|----------------------|----------|-----|---------------------|------|----------|----------|
|                       |              |              |                 | Unpreserved  | HCl | HNO | Other | Groundwater | Soil | Air Summa Canister # | Other    | PAH |                     | LEAD | 3-METALS | 5-METALS |
| ELDCH                 | 1/24/21      | 3:30         | 3               |              |     |     |       |             |      |                      |          |     |                     |      |          |          |
| ROLE 75               |              | 4:00         | 3               |              |     |     |       |             |      |                      |          |     |                     |      |          |          |
| WATER-SIEED           |              | 4:05         | 3               |              |     |     |       |             |      |                      |          |     |                     |      |          |          |
| NATIVE-BIG263         |              | 3:15         | 2               |              |     |     |       |             |      |                      |          |     |                     |      |          |          |
| NATIVE-BIG264         |              | 3:17         | 1               |              |     |     |       |             |      |                      |          |     |                     |      |          |          |
| NATIVE-BIG263         |              | 3:18         | 1               |              |     |     |       |             |      |                      |          |     |                     |      |          |          |
| NATIVE-BIG266         |              | 4:20         | 1               |              |     |     |       |             |      |                      |          |     |                     |      |          |          |
| NATIVE-BIG265         |              | 4:25         | 1               |              |     |     |       |             |      |                      |          |     |                     |      |          |          |
| NATIVE-BIG266         |              | 4:27         | 1               |              |     |     |       |             |      |                      |          |     |                     |      |          |          |

Temp Received: \_\_\_\_\_  
 Date Results Needed: \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Date: 1/24/21 Time: 1:11  
 Received By: \_\_\_\_\_ Date: 1/24/21 Time: 1:21  
 Turnaround time:  Same Day  24 Hr  48 Hr  72 Hr  Standard

Origins Laboratory, Inc.

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# ORIGINS LABORATORY, INC

Ensolom  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A1417564  
Project: KMG - Russell 12-31 Wellhead

Origins Laboratory F-012207-01-R1  
Sample Receipt Checklist Effective Date: 01/09/12

Origins Work Order: 1401583 Client: Ensolom  
Client Project ID: Russell 12-31  
Checklist Completed by: EHS Shipped Via: HD  
Date/time completed: 1/24/24 Airbill #: N/A  
Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other \_\_\_\_\_  
Cooler Number/Temperature: 115 °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C  
Thermometer ID: 1004

| 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 subcooled analytes in order to insure sample integrity)(pH < 2 for samples preserved with HNO <sub>3</sub> , HCl, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH) |                                      |                                     | <input checked="" type="checkbox"/> |                   |
| Additional Comments (if any):  | <u>Brought 3 ARS for all samples</u> |                                     |                                     |                   |

<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.

*[Signature]*  
Reviewed by (Project Manager) 1124129  
Date/Time Reviewed

Origins Laboratory, Inc.  
*[Signature]*

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 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**FL01@4'**  
**1/24/2024 1:30:00PM**

**Origins Laboratory, Inc.**  
**Y401583-01 (Soil)**

**Boron (DTPA Sorbitol)**

| Analyte | Result | Min Detection Limit | Reporting Limit | Units | Dilution | Batch   | Prepared   | Analyzed   | Notes |
|---------|--------|---------------------|-----------------|-------|----------|---------|------------|------------|-------|
| Boron   | 1.35   |                     | 0.100           | mg/L  | 1        | B4A2505 | 01/25/2024 | 01/26/2024 |       |

**DRO/ORO by EPA 8015D**

|                                   |    |  |      |       |   |         |            |            |   |
|-----------------------------------|----|--|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND |  | 25.0 | mg/kg | 1 | B4A2426 | 01/24/2024 | 01/25/2024 | U |
| Residual Range Organics (C28-C40) | ND |  | 100  | "     | " | "       | "          | "          | U |

Surrogate: o-Terphenyl 86.9% 50-150 " " "

**GBTEX+TMBs by 8260D**

|                             |    |  |         |       |   |         |            |            |   |
|-----------------------------|----|--|---------|-------|---|---------|------------|------------|---|
| 1,2,4-Trimethylbenzene      | ND |  | 0.00200 | mg/kg | 1 | B4A2444 | 01/24/2024 | 01/24/2024 | 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 111% 70-130 " " "

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FL01@4'  
 1/24/2024 1:30:00PM

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

**Origins Laboratory, Inc.**  
**Y401583-01 (Soil)**

**GBTEX+TMBs by 8260D**

|                                 |        |  |        |  |  |             |            |            |  |
|---------------------------------|--------|--|--------|--|--|-------------|------------|------------|--|
| Surrogate: Toluene-d8           | 99.3 % |  | 70-130 |  |  | B4A24<br>44 | 01/24/2024 | 01/24/2024 |  |
| Surrogate: 4-Bromofluorobenzene | 95.0 % |  | 70-130 |  |  | "           | "          | "          |  |

**Metals by Saturated Paste by EPA 6010**

|           |      |  |       |       |    |        |            |            |  |
|-----------|------|--|-------|-------|----|--------|------------|------------|--|
| Calcium   | 8.56 |  | 0.499 | meq/L | 10 | [CALC] | 01/25/2024 | 01/26/2024 |  |
| Magnesium | 14.9 |  | 0.823 | "     | "  | "      | "          | "          |  |
| Sodium    | 2.60 |  | 0.435 | "     | "  | "      | "          | "          |  |

**PAH by EPA 8270E**

|                         |    |  |       |       |   |         |            |            |   |
|-------------------------|----|--|-------|-------|---|---------|------------|------------|---|
| 1-Methylnaphthalene     | ND |  | 0.002 | mg/kg | 1 | B4A2427 | 01/24/2024 | 01/25/2024 | 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 (k) fluoranthene  | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Chrysene                | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Dibenz (a,h) anthracene | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Fluoranthene            | ND |  | 0.020 | "     | " | "       | "          | "          | U |

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FL01@4'  
 1/24/2024 1:30:00PM

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

**Origins Laboratory, Inc.**  
**Y401583-01 (Soil)**

**PAH by EPA 8270E**

|                          |    |  |       |       |   |         |            |            |   |
|--------------------------|----|--|-------|-------|---|---------|------------|------------|---|
| Fluorene                 | ND |  | 0.020 | mg/kg | 1 | B4A2427 | 01/24/2024 | 01/25/2024 | U |
| Indeno (1,2,3-cd) pyrene | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Naphthalene              | ND |  | 0.002 | "     | " | "       | "          | "          | U |
| Pyrene                   | ND |  | 0.020 | "     | " | "       | "          | "          | U |

|                                 |        |  |        |  |  |  |  |  |  |
|---------------------------------|--------|--|--------|--|--|--|--|--|--|
| Surrogate: Fluorene-d10         | 95.1 % |  | 60-130 |  |  |  |  |  |  |
| Surrogate: Anthracene-d10       | 104 %  |  | 60-130 |  |  |  |  |  |  |
| Surrogate: Pyrene-d10           | 112 %  |  | 60-130 |  |  |  |  |  |  |
| Surrogate: Benzo (a) pyrene-d12 | 104 %  |  | 60-130 |  |  |  |  |  |  |

**pH in Soil by 9045D**

|    |      |  |  |          |   |         |            |            |  |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.15 |  |  | pH Units | 1 | B4A2515 | 01/25/2024 | 01/26/2024 |  |
|----|------|--|--|----------|---|---------|------------|------------|--|

**SAR by 20B Saturated Paste**

|     |       |  |        |     |   |         |            |            |  |
|-----|-------|--|--------|-----|---|---------|------------|------------|--|
| SAR | 0.760 |  | 0.0100 | SAR | 1 | B4A2510 | 01/25/2024 | 01/26/2024 |  |
|-----|-------|--|--------|-----|---|---------|------------|------------|--|

**Specific Conductance Mod. 9050A**

|                           |      |  |         |          |   |         |            |            |  |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 2.19 |  | 0.00500 | mmhos/cm | 1 | B4A2515 | 01/25/2024 | 01/26/2024 |  |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|

**Table 915 metals by EPA 6020B**

Origins Laboratory, Inc.



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Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

FL01@4'  
 1/24/2024 1:30:00PM

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


**Origins Laboratory, Inc.**  
**Y401583-01 (Soil)**

**Table 915 metals by EPA 6020B**

|          |       |  |        |       |    |         |            |            |  |
|----------|-------|--|--------|-------|----|---------|------------|------------|--|
| Arsenic  | 4.28  |  | 0.0905 | mg/kg | 10 | B4A2428 | 01/24/2024 | 01/26/2024 |  |
| Barium   | 245   |  | 9.05   | "     | "  | "       | "          | "          |  |
| Cadmium  | 0.179 |  | 0.0905 | "     | "  | "       | "          | "          |  |
| Copper   | 9.54  |  | 9.05   | "     | "  | "       | "          | "          |  |
| Lead     | 9.33  |  | 0.905  | "     | "  | "       | "          | "          |  |
| Nickel   | 11.7  |  | 0.905  | "     | "  | "       | "          | "          |  |
| Selenium | 0.147 |  | 0.0905 | "     | "  | "       | "          | "          |  |
| Silver   | ND    |  | 0.0905 | "     | "  | "       | "          | "          |  |
| Zinc     | 37.1  |  | 9.05   | "     | "  | "       | "          | "          |  |

**Total Metals by 7196A**

|                      |    |       |     |       |   |         |            |            |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|
| Chromium, Hexavalent | ND | 0.244 | 0.5 | mg/Kg | 1 | L730182 | 01/24/2024 | 02/01/2024 |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|

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Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**B01@7'**  
**1/24/2024 2:00:00PM**

**Origins Laboratory, Inc.**  
**Y401583-02 (Soil)**

**Boron (DTPA Sorbitol)**

| Analyte | Result | Min Detection Limit | Reporting Limit | Units | Dilution | Batch   | Prepared   | Analyzed   | Notes |
|---------|--------|---------------------|-----------------|-------|----------|---------|------------|------------|-------|
| Boron   | 0.238  |                     | 0.100           | mg/L  | 1        | B4A2505 | 01/25/2024 | 01/26/2024 |       |

**DRO/ORO by EPA 8015D**

|                                   |    |  |      |       |   |         |            |            |   |
|-----------------------------------|----|--|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND |  | 25.0 | mg/kg | 1 | B4A2426 | 01/24/2024 | 01/25/2024 | U |
| Residual Range Organics (C28-C40) | ND |  | 100  | "     | " | "       | "          | "          | U |

Surrogate: o-Terphenyl 90.5% 50-150 " " "

**GBTEX+TMBs by 8260D**

|                             |    |  |         |       |   |         |            |            |   |
|-----------------------------|----|--|---------|-------|---|---------|------------|------------|---|
| 1,2,4-Trimethylbenzene      | ND |  | 0.00200 | mg/kg | 1 | B4A2444 | 01/24/2024 | 01/24/2024 | 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 109% 70-130 " " "

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Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**B01@7'**  
**1/24/2024 2:00:00PM**

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

**Origins Laboratory, Inc.**  
**Y401583-02 (Soil)**

**GBTEX+TMBs by 8260D**

|                                 |        |  |        |  |  |             |            |            |  |
|---------------------------------|--------|--|--------|--|--|-------------|------------|------------|--|
| Surrogate: Toluene-d8           | 100 %  |  | 70-130 |  |  | B4A24<br>44 | 01/24/2024 | 01/24/2024 |  |
| Surrogate: 4-Bromofluorobenzene | 94.8 % |  | 70-130 |  |  | "           | "          | "          |  |

**Metals by Saturated Paste by EPA 6010**

|           |       |  |       |       |    |        |            |            |  |
|-----------|-------|--|-------|-------|----|--------|------------|------------|--|
| Calcium   | 0.644 |  | 0.499 | meq/L | 10 | [CALC] | 01/25/2024 | 01/26/2024 |  |
| Magnesium | 1.47  |  | 0.823 | "     | "  | "      | "          | "          |  |
| Sodium    | 0.559 |  | 0.435 | "     | "  | "      | "          | "          |  |

**PAH by EPA 8270E**

|                         |    |  |       |       |   |         |            |            |   |
|-------------------------|----|--|-------|-------|---|---------|------------|------------|---|
| 1-Methylnaphthalene     | ND |  | 0.002 | mg/kg | 1 | B4A2427 | 01/24/2024 | 01/25/2024 | 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 (k) fluoranthene  | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Chrysene                | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Dibenz (a,h) anthracene | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Fluoranthene            | ND |  | 0.020 | "     | " | "       | "          | "          | U |

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 11049 W 44th Avenue, Suite 103  
 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**B01@7'**  
**1/24/2024 2:00:00PM**

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

**Origins Laboratory, Inc.**  
**Y401583-02 (Soil)**

**PAH by EPA 8270E**

|                          |    |  |       |       |   |         |            |            |   |
|--------------------------|----|--|-------|-------|---|---------|------------|------------|---|
| Fluorene                 | ND |  | 0.020 | mg/kg | 1 | B4A2427 | 01/24/2024 | 01/25/2024 | U |
| Indeno (1,2,3-cd) pyrene | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Naphthalene              | ND |  | 0.002 | "     | " | "       | "          | "          | U |
| Pyrene                   | ND |  | 0.020 | "     | " | "       | "          | "          | U |

|                                 |        |  |        |  |  |  |  |  |  |
|---------------------------------|--------|--|--------|--|--|--|--|--|--|
| Surrogate: Fluorene-d10         | 93.9 % |  | 60-130 |  |  |  |  |  |  |
| Surrogate: Anthracene-d10       | 102 %  |  | 60-130 |  |  |  |  |  |  |
| Surrogate: Pyrene-d10           | 103 %  |  | 60-130 |  |  |  |  |  |  |
| Surrogate: Benzo (a) pyrene-d12 | 112 %  |  | 60-130 |  |  |  |  |  |  |

**pH in Soil by 9045D**

|    |      |  |  |          |   |         |            |            |  |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.41 |  |  | pH Units | 1 | B4A2515 | 01/25/2024 | 01/26/2024 |  |
|----|------|--|--|----------|---|---------|------------|------------|--|

**SAR by 20B Saturated Paste**

|     |       |  |        |     |   |         |            |            |  |
|-----|-------|--|--------|-----|---|---------|------------|------------|--|
| SAR | 0.544 |  | 0.0100 | SAR | 1 | B4A2510 | 01/25/2024 | 01/26/2024 |  |
|-----|-------|--|--------|-----|---|---------|------------|------------|--|

**Specific Conductance Mod. 9050A**

|                           |       |  |         |          |   |         |            |            |  |
|---------------------------|-------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.341 |  | 0.00500 | mmhos/cm | 1 | B4A2515 | 01/25/2024 | 01/26/2024 |  |
|---------------------------|-------|--|---------|----------|---|---------|------------|------------|--|

**Table 915 metals by EPA 6020B**

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 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**B01@7'**  
**1/24/2024 2:00:00PM**

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


**Origins Laboratory, Inc.**  
**Y401583-02 (Soil)**

**Table 915 metals by EPA 6020B**

|          |      |  |        |       |    |         |            |            |  |
|----------|------|--|--------|-------|----|---------|------------|------------|--|
| Arsenic  | 5.02 |  | 0.0889 | mg/kg | 10 | B4A2431 | 01/24/2024 | 01/26/2024 |  |
| Barium   | 22.7 |  | 8.89   | "     | "  | "       | "          | "          |  |
| Cadmium  | ND   |  | 0.0889 | "     | "  | "       | "          | "          |  |
| Copper   | ND   |  | 8.89   | "     | "  | "       | "          | "          |  |
| Lead     | 5.96 |  | 0.889  | "     | "  | "       | "          | "          |  |
| Nickel   | 5.49 |  | 0.889  | "     | "  | "       | "          | "          |  |
| Selenium | ND   |  | 0.0889 | "     | "  | "       | "          | "          |  |
| Silver   | ND   |  | 0.0889 | "     | "  | "       | "          | "          |  |
| Zinc     | 20.7 |  | 8.89   | "     | "  | "       | "          | "          |  |

**Total Metals by 7196A**

|                      |    |       |     |       |   |         |            |            |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|
| Chromium, Hexavalent | ND | 0.244 | 0.5 | mg/Kg | 1 | L730182 | 01/24/2024 | 02/01/2024 |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|

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 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**WH01-RISER@4'**  
**1/24/2024 2:05:00PM**

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

**Origins Laboratory, Inc.**  
**Y401583-03 (Soil)**

**Boron (DTPA Sorbitol)**

|       |       |  |       |      |   |         |            |            |  |
|-------|-------|--|-------|------|---|---------|------------|------------|--|
| Boron | 0.501 |  | 0.100 | mg/L | 1 | B4A2505 | 01/25/2024 | 01/26/2024 |  |
|-------|-------|--|-------|------|---|---------|------------|------------|--|

**DRO/ORO by EPA 8015D**


|                                   |    |  |      |       |   |         |            |            |   |
|-----------------------------------|----|--|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND |  | 25.0 | mg/kg | 1 | B4A2426 | 01/24/2024 | 01/25/2024 | U |
| Residual Range Organics (C28-C40) | ND |  | 100  | "     | " | "       | "          | "          | U |

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

**GBTEX+TMBs by 8260D**

|                             |    |  |         |       |   |         |            |            |   |
|-----------------------------|----|--|---------|-------|---|---------|------------|------------|---|
| 1,2,4-Trimethylbenzene      | ND |  | 0.00200 | mg/kg | 1 | B4A2444 | 01/24/2024 | 01/24/2024 | 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 | 108 % |  | 70-130 | " | " | " | " | " |  |
|----------------------------------|-------|--|--------|---|---|---|---|---|--|

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 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**WH01-RISER@4'**  
**1/24/2024 2:05:00PM**

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

**Origins Laboratory, Inc.**  
**Y401583-03 (Soil)**

**GBTEX+TMBs by 8260D**

|                                 |        |  |        |  |  |             |            |            |  |
|---------------------------------|--------|--|--------|--|--|-------------|------------|------------|--|
| Surrogate: Toluene-d8           | 99.9 % |  | 70-130 |  |  | B4A24<br>44 | 01/24/2024 | 01/24/2024 |  |
| Surrogate: 4-Bromofluorobenzene | 94.7 % |  | 70-130 |  |  | "           | "          | "          |  |

**Metals by Saturated Paste by EPA 6010**

|           |       |  |       |       |    |        |            |            |  |
|-----------|-------|--|-------|-------|----|--------|------------|------------|--|
| Calcium   | 2.19  |  | 0.499 | meq/L | 10 | [CALC] | 01/25/2024 | 01/26/2024 |  |
| Magnesium | 1.20  |  | 0.823 | "     | "  | "      | "          | "          |  |
| Sodium    | 0.554 |  | 0.435 | "     | "  | "      | "          | "          |  |

**PAH by EPA 8270E**

|                         |    |  |       |       |   |         |            |            |   |
|-------------------------|----|--|-------|-------|---|---------|------------|------------|---|
| 1-Methylnaphthalene     | ND |  | 0.002 | mg/kg | 1 | B4A2427 | 01/24/2024 | 01/25/2024 | 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 (k) fluoranthene  | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Chrysene                | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Dibenz (a,h) anthracene | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Fluoranthene            | ND |  | 0.020 | "     | " | "       | "          | "          | U |

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 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**WH01-RISER@4'**  
**1/24/2024 2:05:00PM**

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

**Origins Laboratory, Inc.**  
**Y401583-03 (Soil)**

**PAH by EPA 8270E**

|                          |    |  |       |       |   |         |            |            |   |
|--------------------------|----|--|-------|-------|---|---------|------------|------------|---|
| Fluorene                 | ND |  | 0.020 | mg/kg | 1 | B4A2427 | 01/24/2024 | 01/25/2024 | U |
| Indeno (1,2,3-cd) pyrene | ND |  | 0.020 | "     | " | "       | "          | "          | U |
| Naphthalene              | ND |  | 0.002 | "     | " | "       | "          | "          | U |
| Pyrene                   | ND |  | 0.020 | "     | " | "       | "          | "          | U |

|                                 |        |  |        |  |  |  |  |  |  |
|---------------------------------|--------|--|--------|--|--|--|--|--|--|
| Surrogate: Fluorene-d10         | 99.6 % |  | 60-130 |  |  |  |  |  |  |
| Surrogate: Anthracene-d10       | 101 %  |  | 60-130 |  |  |  |  |  |  |
| Surrogate: Pyrene-d10           | 115 %  |  | 60-130 |  |  |  |  |  |  |
| Surrogate: Benzo (a) pyrene-d12 | 115 %  |  | 60-130 |  |  |  |  |  |  |

**pH in Soil by 9045D**

|    |      |  |  |          |   |         |            |            |  |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.31 |  |  | pH Units | 1 | B4A2515 | 01/25/2024 | 01/26/2024 |  |
|----|------|--|--|----------|---|---------|------------|------------|--|

**SAR by 20B Saturated Paste**

|     |       |  |        |     |   |         |            |            |  |
|-----|-------|--|--------|-----|---|---------|------------|------------|--|
| SAR | 0.425 |  | 0.0100 | SAR | 1 | B4A2510 | 01/25/2024 | 01/26/2024 |  |
|-----|-------|--|--------|-----|---|---------|------------|------------|--|

**Specific Conductance Mod. 9050A**

|                           |       |  |         |          |   |         |            |            |  |
|---------------------------|-------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.449 |  | 0.00500 | mmhos/cm | 1 | B4A2515 | 01/25/2024 | 01/26/2024 |  |
|---------------------------|-------|--|---------|----------|---|---------|------------|------------|--|

**Table 915 metals by EPA 6020B**

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 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**WH01-RISER@4'**  
**1/24/2024 2:05:00PM**

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

**Origins Laboratory, Inc.**  
**Y401583-03 (Soil)**

**Table 915 metals by EPA 6020B**

|          |       |  |        |       |    |         |            |            |  |
|----------|-------|--|--------|-------|----|---------|------------|------------|--|
| Arsenic  | 4.51  |  | 0.0967 | mg/kg | 10 | B4A2431 | 01/24/2024 | 01/26/2024 |  |
| Barium   | 164   |  | 9.67   | "     | "  | "       | "          | "          |  |
| Cadmium  | 0.302 |  | 0.0967 | "     | "  | "       | "          | "          |  |
| Copper   | 17.7  |  | 9.67   | "     | "  | "       | "          | "          |  |
| Lead     | 18.7  |  | 0.967  | "     | "  | "       | "          | "          |  |
| Nickel   | 10.3  |  | 0.967  | "     | "  | "       | "          | "          |  |
| Selenium | 0.144 |  | 0.0967 | "     | "  | "       | "          | "          |  |
| Silver   | 0.141 |  | 0.0967 | "     | "  | "       | "          | "          |  |
| Zinc     | 55.2  |  | 9.67   | "     | "  | "       | "          | "          |  |

**Total Metals by 7196A**

|                      |    |       |     |       |   |         |            |            |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|
| Chromium, Hexavalent | ND | 0.244 | 0.5 | mg/Kg | 1 | L730182 | 01/24/2024 | 02/01/2024 |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|

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Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**NATIVE-BG01@3'**  
**1/24/2024 1:15:00PM**

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

**Origins Laboratory, Inc.**  
**Y401583-04 (Soil)**

**Boron (DTPA Sorbitol)**

|       |       |  |       |      |   |         |            |            |  |
|-------|-------|--|-------|------|---|---------|------------|------------|--|
| Boron | 0.820 |  | 0.100 | mg/L | 1 | B4A2505 | 01/25/2024 | 01/26/2024 |  |
|-------|-------|--|-------|------|---|---------|------------|------------|--|

**Metals by Saturated Paste by EPA 6010**

|           |       |  |       |       |    |        |            |            |  |
|-----------|-------|--|-------|-------|----|--------|------------|------------|--|
| Calcium   | 0.902 |  | 0.499 | meq/L | 10 | [CALC] | 01/25/2024 | 01/26/2024 |  |
| Magnesium | 2.00  |  | 0.823 | "     | "  | "      | "          | "          |  |
| Sodium    | 1.66  |  | 0.435 | "     | "  | "      | "          | "          |  |

**pH in Soil by 9045D**

|    |      |  |  |          |   |         |            |            |  |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.44 |  |  | pH Units | 1 | B4A2515 | 01/25/2024 | 01/26/2024 |  |
|----|------|--|--|----------|---|---------|------------|------------|--|

**SAR by 20B Saturated Paste**

|     |      |  |        |     |   |         |            |            |  |
|-----|------|--|--------|-----|---|---------|------------|------------|--|
| SAR | 1.37 |  | 0.0100 | SAR | 1 | B4A2510 | 01/25/2024 | 01/26/2024 |  |
|-----|------|--|--------|-----|---|---------|------------|------------|--|

**Specific Conductance Mod. 9050A**

|                           |       |  |         |          |   |         |            |            |  |
|---------------------------|-------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.484 |  | 0.00500 | mmhos/cm | 1 | B4A2515 | 01/25/2024 | 01/26/2024 |  |
|---------------------------|-------|--|---------|----------|---|---------|------------|------------|--|

**Table 915 metals by EPA 6020B**

|         |       |  |        |       |    |         |            |            |  |
|---------|-------|--|--------|-------|----|---------|------------|------------|--|
| Arsenic | 4.70  |  | 0.0876 | mg/kg | 10 | B4A2431 | 01/24/2024 | 01/26/2024 |  |
| Barium  | 218   |  | 8.76   | "     | "  | "       | "          | "          |  |
| Cadmium | 0.179 |  | 0.0876 | "     | "  | "       | "          | "          |  |
| Copper  | 9.74  |  | 8.76   | "     | "  | "       | "          | "          |  |

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 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**NATIVE-BG01@3'**  
**1/24/2024 1:15:00PM**

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

**Origins Laboratory, Inc.**  
**Y401583-04 (Soil)**

**Table 915 metals by EPA 6020B**

|          |       |  |        |       |    |         |            |            |   |
|----------|-------|--|--------|-------|----|---------|------------|------------|---|
| Lead     | 9.96  |  | 0.876  | mg/kg | 10 | B4A2431 | 01/24/2024 | 01/26/2024 |   |
| Nickel   | 11.6  |  | 0.876  | "     | "  | "       | "          | "          | " |
| Selenium | 0.134 |  | 0.0876 | "     | "  | "       | "          | "          | " |
| Silver   | ND    |  | 0.0876 | "     | "  | "       | "          | "          | " |
| Zinc     | 38.1  |  | 8.76   | "     | "  | "       | "          | "          | " |

**Total Metals by 7196A**

|                      |    |       |     |       |   |         |            |            |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|
| Chromium, Hexavalent | ND | 0.244 | 0.5 | mg/Kg | 1 | L730182 | 01/24/2024 | 02/01/2024 |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|

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 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**NATIVE-BG01@6'**  
**1/24/2024 1:17:00PM**

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

**Origins Laboratory, Inc.**  
**Y401583-05 (Soil)**

**Boron (DTPA Sorbitol)**

|       |      |  |       |      |   |         |            |            |  |
|-------|------|--|-------|------|---|---------|------------|------------|--|
| Boron | 1.62 |  | 0.100 | mg/L | 1 | B4A2505 | 01/25/2024 | 01/26/2024 |  |
|-------|------|--|-------|------|---|---------|------------|------------|--|

**Metals by Saturated Paste by EPA 6010**

|           |      |  |       |       |    |        |            |            |  |
|-----------|------|--|-------|-------|----|--------|------------|------------|--|
| Calcium   | 1.10 |  | 0.499 | meq/L | 10 | [CALC] | 01/25/2024 | 01/26/2024 |  |
| Magnesium | 2.51 |  | 0.823 | "     | "  | "      | "          | "          |  |
| Sodium    | 6.36 |  | 0.435 | "     | "  | "      | "          | "          |  |

**pH in Soil by 9045D**

|    |      |  |  |          |   |         |            |            |  |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.44 |  |  | pH Units | 1 | B4A2515 | 01/25/2024 | 01/26/2024 |  |
|----|------|--|--|----------|---|---------|------------|------------|--|

**SAR by 20B Saturated Paste**

|     |      |  |        |     |   |         |            |            |  |
|-----|------|--|--------|-----|---|---------|------------|------------|--|
| SAR | 4.74 |  | 0.0100 | SAR | 1 | B4A2510 | 01/25/2024 | 01/26/2024 |  |
|-----|------|--|--------|-----|---|---------|------------|------------|--|

**Specific Conductance Mod. 9050A**

|                           |      |  |         |          |   |         |            |            |  |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 1.14 |  | 0.00500 | mmhos/cm | 1 | B4A2515 | 01/25/2024 | 01/26/2024 |  |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|

**Table 915 metals by EPA 6020B**

|         |       |  |        |       |    |         |            |            |  |
|---------|-------|--|--------|-------|----|---------|------------|------------|--|
| Arsenic | 6.08  |  | 0.0962 | mg/kg | 10 | B4A2431 | 01/24/2024 | 01/26/2024 |  |
| Barium  | 120   |  | 9.62   | "     | "  | "       | "          | "          |  |
| Cadmium | 0.117 |  | 0.0962 | "     | "  | "       | "          | "          |  |
| Copper  | ND    |  | 9.62   | "     | "  | "       | "          | "          |  |

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 11049 W 44th Avenue, Suite 103  
 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**NATIVE-BG01@6'**  
**1/24/2024 1:17:00PM**

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

**Origins Laboratory, Inc.**  
**Y401583-05 (Soil)**

**Table 915 metals by EPA 6020B**

|          |       |  |        |       |    |         |            |            |   |
|----------|-------|--|--------|-------|----|---------|------------|------------|---|
| Lead     | 8.00  |  | 0.962  | mg/kg | 10 | B4A2431 | 01/24/2024 | 01/26/2024 |   |
| Nickel   | 9.84  |  | 0.962  | "     | "  | "       | "          | "          | " |
| Selenium | 0.194 |  | 0.0962 | "     | "  | "       | "          | "          | " |
| Silver   | ND    |  | 0.0962 | "     | "  | "       | "          | "          | " |
| Zinc     | 30.1  |  | 9.62   | "     | "  | "       | "          | "          | " |

**Total Metals by 7196A**

|                      |    |       |       |       |   |         |            |            |  |
|----------------------|----|-------|-------|-------|---|---------|------------|------------|--|
| Chromium, Hexavalent | ND | 0.244 | 0.501 | mg/Kg | 1 | L730182 | 01/24/2024 | 02/01/2024 |  |
|----------------------|----|-------|-------|-------|---|---------|------------|------------|--|

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 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**NATIVE-BG02@3'**  
**1/24/2024 1:18:00PM**

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

**Origins Laboratory, Inc.**  
**Y401583-06 (Soil)**

**Boron (DTPA Sorbitol)**

|       |      |  |       |      |   |         |            |            |  |
|-------|------|--|-------|------|---|---------|------------|------------|--|
| Boron | 1.69 |  | 0.100 | mg/L | 1 | B4A2505 | 01/25/2024 | 01/26/2024 |  |
|-------|------|--|-------|------|---|---------|------------|------------|--|

**Metals by Saturated Paste by EPA 6010**

|           |      |  |       |       |    |        |            |            |  |
|-----------|------|--|-------|-------|----|--------|------------|------------|--|
| Calcium   | 11.6 |  | 0.499 | meq/L | 10 | [CALC] | 01/25/2024 | 01/26/2024 |  |
| Magnesium | 16.3 |  | 0.823 | "     | "  | "      | "          | "          |  |
| Sodium    | 3.86 |  | 0.435 | "     | "  | "      | "          | "          |  |

**pH in Soil by 9045D**

|    |      |  |  |          |   |         |            |            |  |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.20 |  |  | pH Units | 1 | B4A2515 | 01/25/2024 | 01/26/2024 |  |
|----|------|--|--|----------|---|---------|------------|------------|--|

**SAR by 20B Saturated Paste**

|     |      |  |        |     |   |         |            |            |  |
|-----|------|--|--------|-----|---|---------|------------|------------|--|
| SAR | 1.03 |  | 0.0100 | SAR | 1 | B4A2510 | 01/25/2024 | 01/26/2024 |  |
|-----|------|--|--------|-----|---|---------|------------|------------|--|

**Specific Conductance Mod. 9050A**

|                           |      |  |         |          |   |         |            |            |  |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 2.45 |  | 0.00500 | mmhos/cm | 1 | B4A2515 | 01/25/2024 | 01/26/2024 |  |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|

**Table 915 metals by EPA 6020B**

|         |       |  |        |       |    |         |            |            |  |
|---------|-------|--|--------|-------|----|---------|------------|------------|--|
| Arsenic | 22.0  |  | 0.0935 | mg/kg | 10 | B4A2431 | 01/24/2024 | 01/26/2024 |  |
| Barium  | 180   |  | 9.35   | "     | "  | "       | "          | "          |  |
| Cadmium | 0.202 |  | 0.0935 | "     | "  | "       | "          | "          |  |
| Copper  | 11.3  |  | 9.35   | "     | "  | "       | "          | "          |  |

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 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**NATIVE-BG02@3'**  
**1/24/2024 1:18:00PM**

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

**Origins Laboratory, Inc.**  
**Y401583-06 (Soil)**

**Table 915 metals by EPA 6020B**

|          |      |  |        |       |    |         |            |            |  |
|----------|------|--|--------|-------|----|---------|------------|------------|--|
| Lead     | 12.0 |  | 0.935  | mg/kg | 10 | B4A2431 | 01/24/2024 | 01/26/2024 |  |
| Nickel   | 13.7 |  | 0.935  | "     | "  | "       | "          | "          |  |
| Selenium | 1.23 |  | 0.0935 | "     | "  | "       | "          | "          |  |
| Silver   | ND   |  | 0.0935 | "     | "  | "       | "          | "          |  |
| Zinc     | 44.6 |  | 9.35   | "     | "  | "       | "          | "          |  |

**Total Metals by 7196A**

|                      |    |       |     |       |   |         |            |            |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|
| Chromium, Hexavalent | ND | 0.244 | 0.5 | mg/Kg | 1 | L730182 | 01/24/2024 | 02/01/2024 |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|

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Jeremy Espinoza  
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 Project: KMG - Russell 12-31 Wellhead

**NATIVE-BG02@6'**  
**1/24/2024 1:20:00PM**

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

**Origins Laboratory, Inc.**  
**Y401583-07 (Soil)**

**Boron (DTPA Sorbitol)**

|       |      |  |       |      |   |         |            |            |  |
|-------|------|--|-------|------|---|---------|------------|------------|--|
| Boron | 2.12 |  | 0.100 | mg/L | 1 | B4A2505 | 01/25/2024 | 01/26/2024 |  |
|-------|------|--|-------|------|---|---------|------------|------------|--|

**Metals by Saturated Paste by EPA 6010**

|           |      |  |       |       |    |        |            |            |  |
|-----------|------|--|-------|-------|----|--------|------------|------------|--|
| Calcium   | 13.0 |  | 0.499 | meq/L | 10 | [CALC] | 01/25/2024 | 01/26/2024 |  |
| Magnesium | 22.9 |  | 0.823 | "     | "  | "      | "          | "          |  |
| Sodium    | 8.10 |  | 0.435 | "     | "  | "      | "          | "          |  |

**pH in Soil by 9045D**

|    |      |  |  |          |   |         |            |            |  |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.17 |  |  | pH Units | 1 | B4A2515 | 01/25/2024 | 01/26/2024 |  |
|----|------|--|--|----------|---|---------|------------|------------|--|

**SAR by 20B Saturated Paste**

|     |      |  |        |     |   |         |            |            |  |
|-----|------|--|--------|-----|---|---------|------------|------------|--|
| SAR | 1.91 |  | 0.0100 | SAR | 1 | B4A2510 | 01/25/2024 | 01/26/2024 |  |
|-----|------|--|--------|-----|---|---------|------------|------------|--|

**Specific Conductance Mod. 9050A**

|                           |      |  |         |          |   |         |            |            |  |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 3.15 |  | 0.00500 | mmhos/cm | 1 | B4A2515 | 01/25/2024 | 01/26/2024 |  |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|

**Table 915 metals by EPA 6020B**

|         |       |  |        |       |    |         |            |            |  |
|---------|-------|--|--------|-------|----|---------|------------|------------|--|
| Arsenic | 11.6  |  | 0.0863 | mg/kg | 10 | B4A2431 | 01/24/2024 | 01/26/2024 |  |
| Barium  | 164   |  | 8.63   | "     | "  | "       | "          | "          |  |
| Cadmium | 0.155 |  | 0.0863 | "     | "  | "       | "          | "          |  |
| Copper  | ND    |  | 8.63   | "     | "  | "       | "          | "          |  |

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Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**NATIVE-BG02@6'**  
**1/24/2024 1:20:00PM**

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


**Origins Laboratory, Inc.**  
**Y401583-07 (Soil)**

**Table 915 metals by EPA 6020B**

|          |       |  |        |       |    |         |            |            |  |
|----------|-------|--|--------|-------|----|---------|------------|------------|--|
| Lead     | 10.3  |  | 0.863  | mg/kg | 10 | B4A2431 | 01/24/2024 | 01/26/2024 |  |
| Nickel   | 10.6  |  | 0.863  | "     | "  | "       | "          | "          |  |
| Selenium | 0.317 |  | 0.0863 | "     | "  | "       | "          | "          |  |
| Silver   | ND    |  | 0.0863 | "     | "  | "       | "          | "          |  |
| Zinc     | 36.3  |  | 8.63   | "     | "  | "       | "          | "          |  |

**Total Metals by 7196A**

|                      |    |       |     |       |   |         |            |            |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|
| Chromium, Hexavalent | ND | 0.244 | 0.5 | mg/Kg | 1 | L730182 | 01/24/2024 | 02/01/2024 |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|

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Jeremy Espinoza  
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 Project: KMG - Russell 12-31 Wellhead

**NATIVE-BG03@3'**  
**1/24/2024 1:25:00PM**

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

**Origins Laboratory, Inc.**  
**Y401583-08 (Soil)**

**Boron (DTPA Sorbitol)**

|       |      |  |       |      |   |         |            |            |  |
|-------|------|--|-------|------|---|---------|------------|------------|--|
| Boron | 1.41 |  | 0.100 | mg/L | 1 | B4A2505 | 01/25/2024 | 01/26/2024 |  |
|-------|------|--|-------|------|---|---------|------------|------------|--|

**Metals by Saturated Paste by EPA 6010**

|           |      |  |       |       |    |        |            |            |  |
|-----------|------|--|-------|-------|----|--------|------------|------------|--|
| Calcium   | 11.0 |  | 0.499 | meq/L | 10 | [CALC] | 01/25/2024 | 01/26/2024 |  |
| Magnesium | 12.8 |  | 0.823 | "     | "  | "      | "          | "          |  |
| Sodium    | 13.4 |  | 0.435 | "     | "  | "      | "          | "          |  |

**pH in Soil by 9045D**

|    |      |  |  |          |   |         |            |            |  |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.20 |  |  | pH Units | 1 | B4A2515 | 01/25/2024 | 01/26/2024 |  |
|----|------|--|--|----------|---|---------|------------|------------|--|

**SAR by 20B Saturated Paste**

|     |      |  |        |     |   |         |            |            |  |
|-----|------|--|--------|-----|---|---------|------------|------------|--|
| SAR | 3.88 |  | 0.0100 | SAR | 1 | B4A2510 | 01/25/2024 | 01/26/2024 |  |
|-----|------|--|--------|-----|---|---------|------------|------------|--|

**Specific Conductance Mod. 9050A**

|                           |      |  |         |          |   |         |            |            |  |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 3.04 |  | 0.00500 | mmhos/cm | 1 | B4A2515 | 01/25/2024 | 01/26/2024 |  |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|

**Table 915 metals by EPA 6020B**

|         |       |  |        |       |    |         |            |            |  |
|---------|-------|--|--------|-------|----|---------|------------|------------|--|
| Arsenic | 6.94  |  | 0.0969 | mg/kg | 10 | B4A2431 | 01/24/2024 | 01/26/2024 |  |
| Barium  | 144   |  | 9.69   | "     | "  | "       | "          | "          |  |
| Cadmium | 0.319 |  | 0.0969 | "     | "  | "       | "          | "          |  |
| Copper  | 11.7  |  | 9.69   | "     | "  | "       | "          | "          |  |

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Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**NATIVE-BG03@3'**  
**1/24/2024 1:25:00PM**

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

**Origins Laboratory, Inc.**  
**Y401583-08 (Soil)**

**Table 915 metals by EPA 6020B**

|          |       |  |        |       |    |         |            |            |   |
|----------|-------|--|--------|-------|----|---------|------------|------------|---|
| Lead     | 10.1  |  | 0.969  | mg/kg | 10 | B4A2431 | 01/24/2024 | 01/26/2024 |   |
| Nickel   | 14.5  |  | 0.969  | "     | "  | "       | "          | "          | " |
| Selenium | 0.308 |  | 0.0969 | "     | "  | "       | "          | "          | " |
| Silver   | ND    |  | 0.0969 | "     | "  | "       | "          | "          | " |
| Zinc     | 46.8  |  | 9.69   | "     | "  | "       | "          | "          | " |

**Total Metals by 7196A**

|                      |    |       |     |       |   |         |            |            |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|
| Chromium, Hexavalent | ND | 0.244 | 0.5 | mg/Kg | 1 | L730182 | 01/24/2024 | 02/01/2024 |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|

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Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**NATIVE-BG03@6'**  
**1/24/2024 1:27:00PM**

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

**Origins Laboratory, Inc.**  
**Y401583-09 (Soil)**

**Boron (DTPA Sorbitol)**

|       |      |  |       |      |   |         |            |            |  |
|-------|------|--|-------|------|---|---------|------------|------------|--|
| Boron | 1.61 |  | 0.100 | mg/L | 1 | B4A2505 | 01/25/2024 | 01/26/2024 |  |
|-------|------|--|-------|------|---|---------|------------|------------|--|

**Metals by Saturated Paste by EPA 6010**

|           |      |  |       |       |    |        |            |            |  |
|-----------|------|--|-------|-------|----|--------|------------|------------|--|
| Calcium   | 6.29 |  | 0.499 | meq/L | 10 | [CALC] | 01/25/2024 | 01/26/2024 |  |
| Magnesium | 16.9 |  | 0.823 | "     | "  | "      | "          | "          |  |
| Sodium    | 23.3 |  | 0.435 | "     | "  | "      | "          | "          |  |

**pH in Soil by 9045D**

|    |      |  |  |          |   |         |            |            |  |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.27 |  |  | pH Units | 1 | B4A2515 | 01/25/2024 | 01/26/2024 |  |
|----|------|--|--|----------|---|---------|------------|------------|--|

**SAR by 20B Saturated Paste**

|     |      |  |        |     |   |         |            |            |  |
|-----|------|--|--------|-----|---|---------|------------|------------|--|
| SAR | 6.85 |  | 0.0100 | SAR | 1 | B4A2510 | 01/25/2024 | 01/26/2024 |  |
|-----|------|--|--------|-----|---|---------|------------|------------|--|

**Specific Conductance Mod. 9050A**

|                           |      |  |         |          |   |         |            |            |  |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 3.85 |  | 0.00500 | mmhos/cm | 1 | B4A2515 | 01/25/2024 | 01/26/2024 |  |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|

**Table 915 metals by EPA 6020B**

|         |       |  |        |       |    |         |            |            |  |
|---------|-------|--|--------|-------|----|---------|------------|------------|--|
| Arsenic | 5.20  |  | 0.0957 | mg/kg | 10 | B4A2431 | 01/24/2024 | 01/26/2024 |  |
| Barium  | 101   |  | 9.57   | "     | "  | "       | "          | "          |  |
| Cadmium | 0.110 |  | 0.0957 | "     | "  | "       | "          | "          |  |
| Copper  | ND    |  | 9.57   | "     | "  | "       | "          | "          |  |

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Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**NATIVE-BG03@6'**  
**1/24/2024 1:27:00PM**

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


**Origins Laboratory, Inc.**  
**Y401583-09 (Soil)**

**Table 915 metals by EPA 6020B**

|          |       |  |        |       |    |         |            |            |  |
|----------|-------|--|--------|-------|----|---------|------------|------------|--|
| Lead     | 8.54  |  | 0.957  | mg/kg | 10 | B4A2431 | 01/24/2024 | 01/26/2024 |  |
| Nickel   | 8.97  |  | 0.957  | "     | "  | "       | "          | "          |  |
| Selenium | 0.176 |  | 0.0957 | "     | "  | "       | "          | "          |  |
| Silver   | ND    |  | 0.0957 | "     | "  | "       | "          | "          |  |
| Zinc     | 32.5  |  | 9.57   | "     | "  | "       | "          | "          |  |

**Total Metals by 7196A**

|                      |    |       |     |       |   |         |            |            |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|
| Chromium, Hexavalent | ND | 0.244 | 0.5 | mg/Kg | 1 | L730185 | 01/24/2024 | 02/01/2024 |  |
|----------------------|----|-------|-----|-------|---|---------|------------|------------|--|

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Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A1417564  
Project: KMG - Russell 12-31 Wellhead

**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 B4A2426 - EPA 3550B

Blank (B4A2426-BLK1)

Prepared: 01/24/2024 Analyzed: 01/24/2024

|                                   |    |      |       |      |  |      |        |  |  |   |
|-----------------------------------|----|------|-------|------|--|------|--------|--|--|---|
| Diesel (C10-C28)                  | ND | 25.0 | mg/kg |      |  |      |        |  |  | U |
| Residual Range Organics (C28-C40) | ND | 100  | "     |      |  |      |        |  |  | U |
| Surrogate: o-Terphenyl            | 23 |      | "     | 24.9 |  | 92.0 | 50-150 |  |  |   |

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Jordan A. Bynon For Jen Pellegrini, Project Manager



Ensolom  
 11049 W 44th Avenue, Suite 103  
 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**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 B4A2426 - EPA 3550B

LCS (B4A2426-BS1)

Prepared: 01/24/2024 Analyzed: 01/24/2024

|                                   |     |      |       |      |  |      |        |  |  |  |
|-----------------------------------|-----|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28)                  | 918 | 50.0 | mg/kg | 1000 |  | 91.8 | 70-130 |  |  |  |
| Residual Range Organics (C28-C40) | 988 | 200  | "     | 1000 |  | 98.8 | 70-130 |  |  |  |
| Surrogate: o-Terphenyl            | 45  |      | "     | 49.8 |  | 90.9 | 50-150 |  |  |  |

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Ensolom  
 11049 W 44th Avenue, Suite 103  
 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**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 B4A2426 - EPA 3550B

Matrix Spike (B4A2426-MS1)

Source: Y401567-01

Prepared: 01/24/2024 Analyzed: 01/24/2024

|                                   |      |      |       |      |    |      |        |  |  |  |
|-----------------------------------|------|------|-------|------|----|------|--------|--|--|--|
| Diesel (C10-C28)                  | 1040 | 50.0 | mg/kg | 1000 | ND | 104  | 70-130 |  |  |  |
| Residual Range Organics (C28-C40) | 1120 | 200  | "     | 1000 | ND | 112  | 70-130 |  |  |  |
| Surrogate: o-Terphenyl            | 49   |      | "     | 49.8 |    | 98.3 | 50-150 |  |  |  |

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Ensolom  
 11049 W 44th Avenue, Suite 103  
 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**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 B4A2426 - EPA 3550B

Matrix Spike Dup (B4A2426-MSD1)

Source: Y401567-01

Prepared: 01/24/2024 Analyzed: 01/24/2024

|                                   |      |      |       |      |    |      |        |      |    |  |
|-----------------------------------|------|------|-------|------|----|------|--------|------|----|--|
| Diesel (C10-C28)                  | 981  | 50.0 | mg/kg | 1000 | ND | 98.1 | 70-130 | 6.16 | 35 |  |
| Residual Range Organics (C28-C40) | 1070 | 200  | "     | 1000 | ND | 107  | 70-130 | 4.79 | 35 |  |
| Surrogate: o-Terphenyl            | 47   |      | "     | 49.8 |    | 94.3 | 50-150 |      |    |  |

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Ensolom  
 11049 W 44th Avenue, Suite 103  
 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**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 B4A2444 - EPA 5030 (soil)

Blank (B4A2444-BLK1)

Prepared: 01/24/2024 Analyzed: 01/24/2024

|                                  |      |         |       |       |  |      |        |  |  |   |
|----------------------------------|------|---------|-------|-------|--|------|--------|--|--|---|
| 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 | 0.13 |         | "     | 0.125 |  | 105  | 70-130 |  |  |   |
| Surrogate: Toluene-d8            | 0.13 |         | "     | 0.125 |  | 101  | 70-130 |  |  |   |
| Surrogate: 4-Bromofluorobenzene  | 0.12 |         | "     | 0.125 |  | 93.5 | 70-130 |  |  |   |

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Ensolum  
 11049 W 44th Avenue, Suite 103  
 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**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 B4A2444 - EPA 5030 (soil)

LCS (B4A2444-BS1)

Prepared: 01/24/2024 Analyzed: 01/24/2024

|                                  |        |         |       |       |  |      |        |  |  |  |
|----------------------------------|--------|---------|-------|-------|--|------|--------|--|--|--|
| 1,2,4-Trimethylbenzene           | 0.108  | 0.00200 | mg/kg | 0.100 |  | 108  | 70-130 |  |  |  |
| 1,3,5-Trimethylbenzene           | 0.108  | 0.00200 | "     | 0.100 |  | 108  | 70-130 |  |  |  |
| Benzene                          | 0.0988 | 0.00200 | "     | 0.100 |  | 98.8 | 70-130 |  |  |  |
| Ethylbenzene                     | 0.107  | 0.00200 | "     | 0.100 |  | 107  | 70-130 |  |  |  |
| Naphthalene                      | 0.110  | 0.00380 | "     | 0.100 |  | 110  | 70-130 |  |  |  |
| Toluene                          | 0.0997 | 0.00200 | "     | 0.100 |  | 99.7 | 70-130 |  |  |  |
| o-Xylene                         | 0.107  | 0.00200 | "     | 0.100 |  | 107  | 70-130 |  |  |  |
| m,p-Xylene                       | 0.211  | 0.00400 | "     | 0.200 |  | 106  | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.13   |         | "     | 0.125 |  | 101  | 70-130 |  |  |  |
| Surrogate: Toluene-d8            | 0.13   |         | "     | 0.125 |  | 101  | 70-130 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.13   |         | "     | 0.125 |  | 100  | 70-130 |  |  |  |

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Jordan A. Bynon For Jen Pellegrini, Project Manager

Ensolom  
 11049 W 44th Avenue, Suite 103  
 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**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 B4A2444 - EPA 5030 (soil)

Matrix Spike (B4A2444-MS1)

Source: Y401499-23

Prepared: 01/24/2024 Analyzed: 01/24/2024

|                                  |        |         |       |       |    |      |        |  |  |  |
|----------------------------------|--------|---------|-------|-------|----|------|--------|--|--|--|
| 1,2,4-Trimethylbenzene           | 0.0936 | 0.00200 | mg/kg | 0.100 | ND | 93.6 | 70-130 |  |  |  |
| 1,3,5-Trimethylbenzene           | 0.0944 | 0.00200 | "     | 0.100 | ND | 94.4 | 70-130 |  |  |  |
| Benzene                          | 0.0923 | 0.00200 | "     | 0.100 | ND | 92.3 | 70-130 |  |  |  |
| Ethylbenzene                     | 0.0964 | 0.00200 | "     | 0.100 | ND | 96.4 | 70-130 |  |  |  |
| Naphthalene                      | 0.0918 | 0.00380 | "     | 0.100 | ND | 91.8 | 70-130 |  |  |  |
| Toluene                          | 0.0913 | 0.00200 | "     | 0.100 | ND | 91.3 | 70-130 |  |  |  |
| o-Xylene                         | 0.0944 | 0.00200 | "     | 0.100 | ND | 94.4 | 70-130 |  |  |  |
| m,p-Xylene                       | 0.187  | 0.00400 | "     | 0.200 | ND | 93.6 | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.13   |         | "     | 0.125 |    | 106  | 70-130 |  |  |  |
| Surrogate: Toluene-d8            | 0.12   |         | "     | 0.125 |    | 99.1 | 70-130 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.13   |         | "     | 0.125 |    | 101  | 70-130 |  |  |  |

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 11049 W 44th Avenue, Suite 103  
 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**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 B4A2444 - EPA 5030 (soil)

Matrix Spike Dup (B4A2444-MSD1)

Source: Y401499-23

Prepared: 01/24/2024 Analyzed: 01/24/2024

|                                  |        |         |       |       |    |      |        |      |    |  |
|----------------------------------|--------|---------|-------|-------|----|------|--------|------|----|--|
| 1,2,4-Trimethylbenzene           | 0.0889 | 0.00200 | mg/kg | 0.100 | ND | 88.9 | 70-130 | 5.13 | 20 |  |
| 1,3,5-Trimethylbenzene           | 0.0899 | 0.00200 | "     | 0.100 | ND | 89.9 | 70-130 | 4.82 | 20 |  |
| Benzene                          | 0.0892 | 0.00200 | "     | 0.100 | ND | 89.2 | 70-130 | 3.40 | 20 |  |
| Ethylbenzene                     | 0.0911 | 0.00200 | "     | 0.100 | ND | 91.1 | 70-130 | 5.59 | 20 |  |
| Naphthalene                      | 0.0903 | 0.00380 | "     | 0.100 | ND | 90.3 | 70-130 | 1.74 | 20 |  |
| Toluene                          | 0.0889 | 0.00200 | "     | 0.100 | ND | 88.9 | 70-130 | 2.62 | 20 |  |
| o-Xylene                         | 0.0902 | 0.00200 | "     | 0.100 | ND | 90.2 | 70-130 | 4.61 | 20 |  |
| m,p-Xylene                       | 0.178  | 0.00400 | "     | 0.200 | ND | 89.2 | 70-130 | 4.81 | 20 |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.14   |         | "     | 0.125 |    | 108  | 70-130 |      |    |  |
| Surrogate: Toluene-d8            | 0.13   |         | "     | 0.125 |    | 100  | 70-130 |      |    |  |
| Surrogate: 4-Bromofluorobenzene  | 0.13   |         | "     | 0.125 |    | 100  | 70-130 |      |    |  |

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 11049 W 44th Avenue, Suite 103  
 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B4A2428 - EPA 3050B**

**Blank (B4A2428-BLK1)**

Prepared: 01/24/2024 Analyzed: 01/26/2024

|          |    |        |       |  |  |  |  |  |  |  |
|----------|----|--------|-------|--|--|--|--|--|--|--|
| Arsenic  | ND | 0.0100 | mg/kg |  |  |  |  |  |  |  |
| Barium   | ND | 1.00   | "     |  |  |  |  |  |  |  |
| Cadmium  | ND | 0.0100 | "     |  |  |  |  |  |  |  |
| Copper   | ND | 1.00   | "     |  |  |  |  |  |  |  |
| Lead     | ND | 0.100  | "     |  |  |  |  |  |  |  |
| Nickel   | ND | 0.100  | "     |  |  |  |  |  |  |  |
| Selenium | ND | 0.0100 | "     |  |  |  |  |  |  |  |
| Silver   | ND | 0.0100 | "     |  |  |  |  |  |  |  |
| Zinc     | ND | 1.00   | "     |  |  |  |  |  |  |  |

**LCS (B4A2428-BS1)**

Prepared: 01/24/2024 Analyzed: 01/26/2024

|          |      |        |       |      |  |      |        |  |  |  |
|----------|------|--------|-------|------|--|------|--------|--|--|--|
| Arsenic  | 4.88 | 0.0100 | mg/kg | 5.00 |  | 97.7 | 80-120 |  |  |  |
| Barium   | 511  | 1.00   | "     | 500  |  | 102  | 80-120 |  |  |  |
| Cadmium  | 4.93 | 0.0100 | "     | 5.00 |  | 98.6 | 80-120 |  |  |  |
| Copper   | 51.2 | 1.00   | "     | 50.0 |  | 102  | 80-120 |  |  |  |
| Lead     | 5.33 | 0.100  | "     | 5.00 |  | 107  | 80-120 |  |  |  |
| Nickel   | 5.10 | 0.100  | "     | 5.00 |  | 102  | 80-120 |  |  |  |
| Selenium | 4.49 | 0.0100 | "     | 5.00 |  | 89.8 | 80-120 |  |  |  |
| Silver   | 5.63 | 0.0100 | "     | 5.00 |  | 113  | 80-120 |  |  |  |
| Zinc     | 48.5 | 1.00   | "     | 50.0 |  | 96.9 | 80-120 |  |  |  |

**Matrix Spike (B4A2428-MS1)**

Source: Y401169-02

Prepared: 01/24/2024 Analyzed: 01/26/2024

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 11049 W 44th Avenue, Suite 103  
 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B4A2428 - EPA 3050B**

**Matrix Spike (B4A2428-MS1)**

Source: Y401169-02

Prepared: 01/24/2024 Analyzed: 01/26/2024

|          |      |        |       |      |        |      |        |  |  |       |
|----------|------|--------|-------|------|--------|------|--------|--|--|-------|
| Arsenic  | 9.32 | 0.0980 | mg/kg | 4.90 | 3.76   | 113  | 75-125 |  |  |       |
| Barium   | 722  | 9.80   | "     | 490  | 89.3   | 129  | 75-125 |  |  | QM-07 |
| Cadmium  | 5.96 | 0.0980 | "     | 4.90 | 0.149  | 119  | 75-125 |  |  |       |
| Copper   | 56.9 | 9.80   | "     | 49.0 | 6.06   | 104  | 75-125 |  |  |       |
| Lead     | 13.1 | 0.980  | "     | 4.90 | 6.60   | 133  | 75-125 |  |  | QM-07 |
| Nickel   | 14.5 | 0.980  | "     | 4.90 | 8.09   | 130  | 75-125 |  |  | QM-07 |
| Selenium | 3.86 | 0.0980 | "     | 4.90 | 0.100  | 76.8 | 75-125 |  |  |       |
| Silver   | 4.84 | 0.0980 | "     | 4.90 | 0.0280 | 98.2 | 75-125 |  |  |       |
| Zinc     | 79.2 | 9.80   | "     | 49.0 | 25.2   | 110  | 75-125 |  |  |       |

**Matrix Spike Dup (B4A2428-MSD1)**

Source: Y401169-02

Prepared: 01/24/2024 Analyzed: 01/26/2024

|          |      |        |       |      |        |      |        |      |    |       |
|----------|------|--------|-------|------|--------|------|--------|------|----|-------|
| Arsenic  | 8.52 | 0.0912 | mg/kg | 4.56 | 3.76   | 104  | 75-125 | 8.90 | 20 |       |
| Barium   | 666  | 9.12   | "     | 456  | 89.3   | 126  | 75-125 | 8.15 | 20 | QM-07 |
| Cadmium  | 5.29 | 0.0912 | "     | 4.56 | 0.149  | 113  | 75-125 | 11.8 | 20 |       |
| Copper   | 50.8 | 9.12   | "     | 45.6 | 6.06   | 98.2 | 75-125 | 11.3 | 20 |       |
| Lead     | 12.0 | 0.912  | "     | 4.56 | 6.60   | 117  | 75-125 | 9.27 | 20 |       |
| Nickel   | 13.0 | 0.912  | "     | 4.56 | 8.09   | 108  | 75-125 | 10.7 | 20 |       |
| Selenium | 3.54 | 0.0912 | "     | 4.56 | 0.100  | 75.4 | 75-125 | 8.81 | 20 |       |
| Silver   | 4.68 | 0.0912 | "     | 4.56 | 0.0280 | 102  | 75-125 | 3.45 | 20 |       |
| Zinc     | 71.9 | 9.12   | "     | 45.6 | 25.2   | 102  | 75-125 | 9.64 | 20 |       |

**Batch B4A2431 - EPA 3050B**

**Blank (B4A2431-BLK1)**

Prepared: 01/24/2024 Analyzed: 01/26/2024

|         |    |        |       |  |  |  |  |  |  |  |
|---------|----|--------|-------|--|--|--|--|--|--|--|
| Arsenic | ND | 0.0100 | mg/kg |  |  |  |  |  |  |  |
| Barium  | ND | 1.00   | "     |  |  |  |  |  |  |  |
| Cadmium | ND | 0.0100 | "     |  |  |  |  |  |  |  |

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Ensolom  
 11049 W 44th Avenue, Suite 103  
 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B4A2431 - EPA 3050B**

**Blank (B4A2431-BLK1)**

Prepared: 01/24/2024 Analyzed: 01/26/2024

|          |    |        |       |  |  |  |  |  |  |  |
|----------|----|--------|-------|--|--|--|--|--|--|--|
| Copper   | ND | 1.00   | mg/kg |  |  |  |  |  |  |  |
| Lead     | ND | 0.100  | "     |  |  |  |  |  |  |  |
| Nickel   | ND | 0.100  | "     |  |  |  |  |  |  |  |
| Selenium | ND | 0.0100 | "     |  |  |  |  |  |  |  |
| Silver   | ND | 0.0100 | "     |  |  |  |  |  |  |  |
| Zinc     | ND | 1.00   | "     |  |  |  |  |  |  |  |

**LCS (B4A2431-BS1)**

Prepared: 01/24/2024 Analyzed: 01/26/2024

|          |      |        |       |      |  |      |        |  |  |  |
|----------|------|--------|-------|------|--|------|--------|--|--|--|
| Arsenic  | 4.75 | 0.0100 | mg/kg | 5.00 |  | 95.0 | 80-120 |  |  |  |
| Barium   | 499  | 1.00   | "     | 500  |  | 99.8 | 80-120 |  |  |  |
| Cadmium  | 4.80 | 0.0100 | "     | 5.00 |  | 96.0 | 80-120 |  |  |  |
| Copper   | 49.9 | 1.00   | "     | 50.0 |  | 99.8 | 80-120 |  |  |  |
| Lead     | 5.11 | 0.100  | "     | 5.00 |  | 102  | 80-120 |  |  |  |
| Nickel   | 4.94 | 0.100  | "     | 5.00 |  | 98.7 | 80-120 |  |  |  |
| Selenium | 4.48 | 0.0100 | "     | 5.00 |  | 89.6 | 80-120 |  |  |  |
| Silver   | 5.54 | 0.0100 | "     | 5.00 |  | 111  | 80-120 |  |  |  |
| Zinc     | 46.8 | 1.00   | "     | 50.0 |  | 93.6 | 80-120 |  |  |  |

**Matrix Spike (B4A2431-MS1)**

**Source: Y401583-02**

Prepared: 01/24/2024 Analyzed: 01/26/2024

|          |      |        |       |      |        |      |        |  |  |  |
|----------|------|--------|-------|------|--------|------|--------|--|--|--|
| Arsenic  | 10.1 | 0.0980 | mg/kg | 4.90 | 5.02   | 103  | 75-125 |  |  |  |
| Barium   | 603  | 9.80   | "     | 490  | 22.7   | 118  | 75-125 |  |  |  |
| Cadmium  | 5.39 | 0.0980 | "     | 4.90 | 0.0356 | 109  | 75-125 |  |  |  |
| Copper   | 50.2 | 9.80   | "     | 49.0 | 2.72   | 96.9 | 75-125 |  |  |  |
| Lead     | 11.3 | 0.980  | "     | 4.90 | 5.96   | 109  | 75-125 |  |  |  |
| Nickel   | 10.4 | 0.980  | "     | 4.90 | 5.49   | 100  | 75-125 |  |  |  |
| Selenium | 4.22 | 0.0980 | "     | 4.90 | 0.0471 | 85.1 | 75-125 |  |  |  |
| Silver   | 5.09 | 0.0980 | "     | 4.90 | 0.0205 | 103  | 75-125 |  |  |  |

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Ensolom  
 11049 W 44th Avenue, Suite 103  
 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch B4A2431 - EPA 3050B

Matrix Spike (B4A2431-MS1)

Source: Y401583-02

Prepared: 01/24/2024 Analyzed: 01/26/2024

|      |      |      |       |      |      |      |        |  |  |  |
|------|------|------|-------|------|------|------|--------|--|--|--|
| Zinc | 68.6 | 9.80 | mg/kg | 49.0 | 20.7 | 97.8 | 75-125 |  |  |  |
|------|------|------|-------|------|------|------|--------|--|--|--|

Matrix Spike Dup (B4A2431-MSD1)

Source: Y401583-02

Prepared: 01/24/2024 Analyzed: 01/26/2024

|          |      |        |       |      |        |      |        |      |    |  |
|----------|------|--------|-------|------|--------|------|--------|------|----|--|
| Arsenic  | 9.14 | 0.0940 | mg/kg | 4.70 | 5.02   | 87.6 | 75-125 | 9.65 | 20 |  |
| Barium   | 531  | 9.40   | "     | 470  | 22.7   | 108  | 75-125 | 12.7 | 20 |  |
| Cadmium  | 4.73 | 0.0940 | "     | 4.70 | 0.0356 | 99.9 | 75-125 | 13.0 | 20 |  |
| Copper   | 46.1 | 9.40   | "     | 47.0 | 2.72   | 92.2 | 75-125 | 8.57 | 20 |  |
| Lead     | 10.3 | 0.940  | "     | 4.70 | 5.96   | 91.8 | 75-125 | 9.43 | 20 |  |
| Nickel   | 9.55 | 0.940  | "     | 4.70 | 5.49   | 86.4 | 75-125 | 8.55 | 20 |  |
| Selenium | 3.82 | 0.0940 | "     | 4.70 | 0.0471 | 80.4 | 75-125 | 9.73 | 20 |  |
| Silver   | 4.68 | 0.0940 | "     | 4.70 | 0.0205 | 99.1 | 75-125 | 8.35 | 20 |  |
| Zinc     | 63.0 | 9.40   | "     | 47.0 | 20.7   | 90.1 | 75-125 | 8.47 | 20 |  |

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 11049 W 44th Avenue, Suite 103  
 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B4A2427 - EPA 3580**

**Blank (B4A2427-BLK1)**

Prepared: 01/24/2024 Analyzed: 01/24/2024

|                                 |     |       |       |     |  |      |        |  |  |   |
|---------------------------------|-----|-------|-------|-----|--|------|--------|--|--|---|
| 1-Methylnaphthalene             | ND  | 0.002 | mg/kg |     |  |      |        |  |  | U |
| 2-Methylnaphthalene             | ND  | 0.002 | "     |     |  |      |        |  |  | U |
| Acenaphthene                    | ND  | 0.020 | "     |     |  |      |        |  |  | U |
| Anthracene                      | ND  | 0.020 | "     |     |  |      |        |  |  | U |
| Benzo (a) anthracene            | ND  | 0.005 | "     |     |  |      |        |  |  | U |
| Benzo (a) pyrene                | ND  | 0.020 | "     |     |  |      |        |  |  | U |
| Benzo (b) fluoranthene          | ND  | 0.020 | "     |     |  |      |        |  |  | U |
| Benzo (g,h,i) perylene          | ND  | 0.020 | "     |     |  |      |        |  |  | U |
| Benzo (k) fluoranthene          | ND  | 0.020 | "     |     |  |      |        |  |  | U |
| Chrysene                        | ND  | 0.020 | "     |     |  |      |        |  |  | U |
| Dibenz (a,h) anthracene         | ND  | 0.020 | "     |     |  |      |        |  |  | U |
| Fluoranthene                    | ND  | 0.020 | "     |     |  |      |        |  |  | U |
| Fluorene                        | ND  | 0.020 | "     |     |  |      |        |  |  | U |
| Indeno (1,2,3-cd) pyrene        | ND  | 0.020 | "     |     |  |      |        |  |  | U |
| Naphthalene                     | ND  | 0.002 | "     |     |  |      |        |  |  | U |
| Phenanthrene                    | ND  | 0.020 | "     |     |  |      |        |  |  | U |
| Pyrene                          | ND  | 0.020 | "     |     |  |      |        |  |  | U |
| Surrogate: Fluorene-d10         | 200 |       | ug/kg | 200 |  | 100  | 60-130 |  |  |   |
| Surrogate: Anthracene-d10       | 210 |       | "     | 200 |  | 107  | 60-130 |  |  |   |
| Surrogate: Pyrene-d10           | 190 |       | "     | 200 |  | 97.3 | 60-130 |  |  |   |
| Surrogate: Benzo (a) pyrene-d12 | 220 |       | "     | 200 |  | 108  | 60-130 |  |  |   |

**LCS (B4A2427-BS1)**

Prepared: 01/24/2024 Analyzed: 01/24/2024

|                     |       |       |       |       |  |      |        |  |  |  |
|---------------------|-------|-------|-------|-------|--|------|--------|--|--|--|
| 1-Methylnaphthalene | 0.210 | 0.002 | mg/kg | 0.200 |  | 105  | 70-130 |  |  |  |
| 2-Methylnaphthalene | 0.211 | 0.002 | "     | 0.200 |  | 106  | 70-130 |  |  |  |
| Acenaphthene        | 0.176 | 0.020 | "     | 0.200 |  | 88.1 | 70-130 |  |  |  |
| Anthracene          | 0.198 | 0.020 | "     | 0.200 |  | 99.1 | 70-130 |  |  |  |

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 11049 W 44th Avenue, Suite 103  
 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B4A2427 - EPA 3580**

**LCS (B4A2427-BS1)**

Prepared: 01/24/2024 Analyzed: 01/24/2024

|                                 |       |       |       |       |  |      |        |  |  |  |
|---------------------------------|-------|-------|-------|-------|--|------|--------|--|--|--|
| Benzo (a) anthracene            | 0.171 | 0.005 | mg/kg | 0.200 |  | 85.7 | 70-130 |  |  |  |
| Benzo (a) pyrene                | 0.205 | 0.020 | "     | 0.200 |  | 102  | 70-130 |  |  |  |
| Benzo (b) fluoranthene          | 0.195 | 0.020 | "     | 0.200 |  | 97.6 | 70-130 |  |  |  |
| Benzo (g,h,i) perylene          | 0.215 | 0.020 | "     | 0.200 |  | 108  | 70-130 |  |  |  |
| Benzo (k) fluoranthene          | 0.204 | 0.020 | "     | 0.200 |  | 102  | 70-130 |  |  |  |
| Chrysene                        | 0.197 | 0.020 | "     | 0.200 |  | 98.6 | 70-130 |  |  |  |
| Dibenz (a,h) anthracene         | 0.236 | 0.020 | "     | 0.200 |  | 118  | 70-130 |  |  |  |
| Fluoranthene                    | 0.175 | 0.020 | "     | 0.200 |  | 87.4 | 70-130 |  |  |  |
| Fluorene                        | 0.167 | 0.020 | "     | 0.200 |  | 83.4 | 70-130 |  |  |  |
| Indeno (1,2,3-cd) pyrene        | 0.219 | 0.020 | "     | 0.200 |  | 110  | 70-130 |  |  |  |
| Naphthalene                     | 0.186 | 0.002 | "     | 0.200 |  | 93.2 | 70-130 |  |  |  |
| Phenanthrene                    | 0.195 | 0.020 | "     | 0.200 |  | 97.4 | 70-130 |  |  |  |
| Pyrene                          | 0.174 | 0.020 | "     | 0.200 |  | 86.9 | 70-130 |  |  |  |
| Surrogate: Fluorene-d10         | 190   |       | ug/kg | 200   |  | 94.7 | 60-130 |  |  |  |
| Surrogate: Anthracene-d10       | 220   |       | "     | 200   |  | 109  | 60-130 |  |  |  |
| Surrogate: Pyrene-d10           | 190   |       | "     | 200   |  | 95.6 | 60-130 |  |  |  |
| Surrogate: Benzo (a) pyrene-d12 | 230   |       | "     | 200   |  | 114  | 60-130 |  |  |  |

**Matrix Spike (B4A2427-MS1)**

**Source: Y401566-01**

Prepared: 01/24/2024 Analyzed: 01/24/2024

|                        |       |       |       |       |        |      |        |  |  |  |
|------------------------|-------|-------|-------|-------|--------|------|--------|--|--|--|
| 1-Methylnaphthalene    | 0.193 | 0.002 | mg/kg | 0.200 | 0.0005 | 96.1 | 70-130 |  |  |  |
| 2-Methylnaphthalene    | 0.194 | 0.002 | "     | 0.200 | ND     | 97.1 | 70-130 |  |  |  |
| Acenaphthene           | 0.166 | 0.020 | "     | 0.200 | 0.0003 | 82.8 | 70-130 |  |  |  |
| Anthracene             | 0.183 | 0.020 | "     | 0.200 | 0.0005 | 91.1 | 70-130 |  |  |  |
| Benzo (a) anthracene   | 0.173 | 0.005 | "     | 0.200 | 0.003  | 84.8 | 70-130 |  |  |  |
| Benzo (a) pyrene       | 0.190 | 0.020 | "     | 0.200 | 0.003  | 93.5 | 70-130 |  |  |  |
| Benzo (b) fluoranthene | 0.160 | 0.020 | "     | 0.200 | 0.004  | 78.1 | 70-130 |  |  |  |
| Benzo (g,h,i) perylene | 0.181 | 0.020 | "     | 0.200 | 0.002  | 89.2 | 70-130 |  |  |  |

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 11049 W 44th Avenue, Suite 103  
 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B4A2427 - EPA 3580**

**Matrix Spike (B4A2427-MS1)**

**Source: Y401566-01**

Prepared: 01/24/2024 Analyzed: 01/24/2024

|                                 |       |       |       |       |        |      |        |  |  |  |
|---------------------------------|-------|-------|-------|-------|--------|------|--------|--|--|--|
| Benzo (k) fluoranthene          | 0.172 | 0.020 | mg/kg | 0.200 | 0.002  | 84.9 | 70-130 |  |  |  |
| Chrysene                        | 0.195 | 0.020 | "     | 0.200 | 0.003  | 96.2 | 70-130 |  |  |  |
| Dibenz (a,h) anthracene         | 0.179 | 0.020 | "     | 0.200 | 0.001  | 89.2 | 70-130 |  |  |  |
| Fluoranthene                    | 0.187 | 0.020 | "     | 0.200 | 0.005  | 91.4 | 70-130 |  |  |  |
| Fluorene                        | 0.159 | 0.020 | "     | 0.200 | 0.0007 | 79.0 | 70-130 |  |  |  |
| Indeno (1,2,3-cd) pyrene        | 0.184 | 0.020 | "     | 0.200 | 0.002  | 90.8 | 70-130 |  |  |  |
| Naphthalene                     | 0.175 | 0.002 | "     | 0.200 | ND     | 87.4 | 70-130 |  |  |  |
| Phenanthrene                    | 0.189 | 0.020 | "     | 0.200 | 0.003  | 93.0 | 70-130 |  |  |  |
| Pyrene                          | 0.189 | 0.020 | "     | 0.200 | 0.006  | 91.8 | 70-130 |  |  |  |
| Surrogate: Fluorene-d10         | 190   |       | ug/kg | 200   |        | 95.2 | 60-130 |  |  |  |
| Surrogate: Anthracene-d10       | 220   |       | "     | 200   |        | 112  | 60-130 |  |  |  |
| Surrogate: Pyrene-d10           | 210   |       | "     | 200   |        | 105  | 60-130 |  |  |  |
| Surrogate: Benzo (a) pyrene-d12 | 210   |       | "     | 200   |        | 104  | 60-130 |  |  |  |

**Matrix Spike Dup (B4A2427-MSD1)**

**Source: Y401566-01**

Prepared: 01/24/2024 Analyzed: 01/24/2024

|                         |       |       |       |       |        |      |        |       |    |  |
|-------------------------|-------|-------|-------|-------|--------|------|--------|-------|----|--|
| 1-Methylnaphthalene     | 0.189 | 0.002 | mg/kg | 0.200 | 0.0005 | 94.4 | 70-130 | 1.78  | 20 |  |
| 2-Methylnaphthalene     | 0.188 | 0.002 | "     | 0.200 | ND     | 94.2 | 70-130 | 3.01  | 20 |  |
| Acenaphthene            | 0.166 | 0.020 | "     | 0.200 | 0.0003 | 82.6 | 70-130 | 0.266 | 20 |  |
| Anthracene              | 0.184 | 0.020 | "     | 0.200 | 0.0005 | 91.7 | 70-130 | 0.650 | 20 |  |
| Benzo (a) anthracene    | 0.167 | 0.005 | "     | 0.200 | 0.003  | 82.0 | 70-130 | 3.32  | 20 |  |
| Benzo (a) pyrene        | 0.182 | 0.020 | "     | 0.200 | 0.003  | 89.5 | 70-130 | 4.25  | 20 |  |
| Benzo (b) fluoranthene  | 0.166 | 0.020 | "     | 0.200 | 0.004  | 81.2 | 70-130 | 3.79  | 20 |  |
| Benzo (g,h,i) perylene  | 0.156 | 0.020 | "     | 0.200 | 0.002  | 77.0 | 70-130 | 14.5  | 20 |  |
| Benzo (k) fluoranthene  | 0.173 | 0.020 | "     | 0.200 | 0.002  | 85.4 | 70-130 | 0.547 | 20 |  |
| Chrysene                | 0.179 | 0.020 | "     | 0.200 | 0.003  | 88.2 | 70-130 | 8.53  | 20 |  |
| Dibenz (a,h) anthracene | 0.195 | 0.020 | "     | 0.200 | 0.001  | 97.0 | 70-130 | 8.34  | 20 |  |
| Fluoranthene            | 0.168 | 0.020 | "     | 0.200 | 0.005  | 81.7 | 70-130 | 10.9  | 20 |  |

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 11049 W 44th Avenue, Suite 103  
 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch B4A2427 - EPA 3580

Matrix Spike Dup (B4A2427-MSD1)

Source: Y401566-01

Prepared: 01/24/2024 Analyzed: 01/24/2024

|                                 |       |       |       |       |        |      |        |      |    |  |
|---------------------------------|-------|-------|-------|-------|--------|------|--------|------|----|--|
| Fluorene                        | 0.155 | 0.020 | mg/kg | 0.200 | 0.0007 | 77.1 | 70-130 | 2.45 | 20 |  |
| Indeno (1,2,3-cd) pyrene        | 0.169 | 0.020 | "     | 0.200 | 0.002  | 83.7 | 70-130 | 8.11 | 20 |  |
| Naphthalene                     | 0.172 | 0.002 | "     | 0.200 | ND     | 86.0 | 70-130 | 1.64 | 20 |  |
| Phenanthrene                    | 0.177 | 0.020 | "     | 0.200 | 0.003  | 86.8 | 70-130 | 6.76 | 20 |  |
| Pyrene                          | 0.170 | 0.020 | "     | 0.200 | 0.006  | 82.0 | 70-130 | 10.9 | 20 |  |
| Surrogate: Fluorene-d10         | 190   |       | ug/kg | 200   |        | 94.5 | 60-130 |      |    |  |
| Surrogate: Anthracene-d10       | 210   |       | "     | 200   |        | 106  | 60-130 |      |    |  |
| Surrogate: Pyrene-d10           | 190   |       | "     | 200   |        | 96.8 | 60-130 |      |    |  |
| Surrogate: Benzo (a) pyrene-d12 | 210   |       | "     | 200   |        | 103  | 60-130 |      |    |  |

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Jordan A. Bynon For Jen Pellegrini, Project Manager

Ensolom  
 11049 W 44th Avenue, Suite 103  
 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**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 B4A2505 - DTPA Sorbitol Preparation**

Prepared: 01/25/2024 Analyzed: 01/26/2024

**Blank (B4A2505-BLK1)**

Boron ND 0.100 mg/L

**Duplicate (B4A2505-DUP1)**

Source: Y401567-01

Prepared: 01/25/2024 Analyzed: 01/26/2024

Boron 0.108 0.100 mg/L

0.103 4.94 50

**Batch B4A2510 - Saturated Paste Metals**

Prepared: 01/25/2024 Analyzed: 01/26/2024

**Blank (B4A2510-BLK1)**

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 (B4A2510-DUP1)**

Source: Y401569-01

Prepared: 01/25/2024 Analyzed: 01/26/2024

SAR ND 0.0100 SAR

8.25 200

Calcium PPM 4.64 10.0 mg/L


3.84 18.9 50

Magnesium PPM 1.38 10.0 "

1.60 14.8 50

Sodium PPM 68.2 10.0 "

76.2 11.1 50

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 11049 W 44th Avenue, Suite 103  
 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch B4A2515 - Saturated Paste pH/EC**

**Blank (B4A2515-BLK1)**

Prepared: 01/25/2024 Analyzed: 01/26/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4A2515-DUP1)**

**Source: Y401569-01**

Prepared: 01/25/2024 Analyzed: 01/26/2024

Specific Conductance (EC) 0.411 0.00500 mmhos/cm 0.344 17.8 25

pH 7.78 pH Units 7.74 0.515 25

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Jordan A. Bynon For Jen Pellegrini, Project Manager



Ensolom  
 11049 W 44th Avenue, Suite 103  
 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

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

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

Batch L730185 -

**DUP (L 89013-DUP)**

**Source: 89013**

Prepared: Analyzed: 02/01/2024

|                      |    |     |       |  |        |   |   |    |  |  |
|----------------------|----|-----|-------|--|--------|---|---|----|--|--|
| Chromium, Hexavalent | ND | 0.5 | mg/Kg |  | <0.500 | - | 0 | 20 |  |  |
|----------------------|----|-----|-------|--|--------|---|---|----|--|--|

**MS (L 89013-MS)**

**Source: 89013**

Prepared: Analyzed: 02/01/2024

|                      |      |     |       |      |         |    |        |  |  |   |
|----------------------|------|-----|-------|------|---------|----|--------|--|--|---|
| Chromium, Hexavalent | 29.2 | 2.5 | mg/Kg | 39.8 | < 0.244 | 73 | 75-125 |  |  | * |
|----------------------|------|-----|-------|------|---------|----|--------|--|--|---|

**LCS (LCS)**

Prepared: Analyzed: 02/01/2024

|                      |      |     |       |   |  |    |        |  |  |  |
|----------------------|------|-----|-------|---|--|----|--------|--|--|--|
| Chromium, Hexavalent | 6.17 | 0.5 | mg/Kg | 8 |  | 77 | 75-125 |  |  |  |
|----------------------|------|-----|-------|---|--|----|--------|--|--|--|

**LRB (LRB)**

Prepared: Analyzed: 02/01/2024

|                      |    |     |       |  |  |   |  |  |  |  |
|----------------------|----|-----|-------|--|--|---|--|--|--|--|
| Chromium, Hexavalent | ND | 0.5 | mg/Kg |  |  | - |  |  |  |  |
|----------------------|----|-----|-------|--|--|---|--|--|--|--|

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.

Jordan A. Bynon For Jen Pellegrini, Project Manager



Ensolom  
 11049 W 44th Avenue, Suite 103  
 Wheat Ridge CO 80033

Jeremy Espinoza  
 Project Number: 09A1417564  
 Project: KMG - Russell 12-31 Wellhead

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

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

Batch L730182 -

**DUP (L 88998-DUP)**

**Source: Y401583-02**

Prepared: Analyzed: 02/01/2024

|                      |    |     |       |        |   |   |    |
|----------------------|----|-----|-------|--------|---|---|----|
| Chromium, Hexavalent | ND | 0.5 | mg/Kg | <0.500 | - | 0 | 20 |
|----------------------|----|-----|-------|--------|---|---|----|

**MS (L 88998-MS)**

**Source: Y401583-02**

Prepared: Analyzed: 02/01/2024

|                      |      |     |       |      |         |    |        |
|----------------------|------|-----|-------|------|---------|----|--------|
| Chromium, Hexavalent | 31.6 | 2.5 | mg/Kg | 39.5 | < 0.244 | 80 | 75-125 |
|----------------------|------|-----|-------|------|---------|----|--------|

**LCS (LCS)**

Prepared: Analyzed: 02/01/2024

|                      |      |     |       |   |    |        |  |
|----------------------|------|-----|-------|---|----|--------|--|
| Chromium, Hexavalent | 6.19 | 0.5 | mg/Kg | 8 | 77 | 75-125 |  |
|----------------------|------|-----|-------|---|----|--------|--|

**LRB (LRB)**

Prepared: Analyzed: 02/01/2024

|                      |    |     |       |   |   |   |   |
|----------------------|----|-----|-------|---|---|---|---|
| Chromium, Hexavalent | ND | 0.5 | mg/Kg | - | - | - | - |
|----------------------|----|-----|-------|---|---|---|---|

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## Notes and Definitions

- U Sample is Non-Detect.
  - QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
  - \* QC Failure
  - 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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