



Ensolum

February 19, 2025

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Howard 30N, 4C, 29N-21HZ
O FAC BT1

Project Number - 09A14171102

Attached are your analytical results for KMG - Howard 30N, 4C, 29N-21HZ O FAC BT1 received by Origins Laboratory January 27, 2025. This project is associated with Origins project number E5A0555-01.

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

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

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

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

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

Origins Laboratory
303.433.1322
projectmanager@originslab.com



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

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

Jeremy Espinoza
Project Number: 09A14171102
Project: KMG - Howard 30N, 4C, 29N-21HZ O
FAC BT1

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|--------------|---------------|--------|------------------------|------------------|
| SS01@0.5'-WP | E5A0555-01 | Soil | January 25, 2025 15:06 | 01/27/2025 08:49 |

Origins Laboratory



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

Client: Jeremy Espinoza
 Project Number: 09A14171102
 Project: KMG - Howard 30N, 4C, 29N-21HZ O FAC BT1

ORIGINS LABORATORY

ORIGINS WORK ORDER #

ESACSSS


Page 1 of 1

Client: 11419 Ensolum
 Address: 11049 W 44th Ave SLCC
 Telephone Number: Wheat Ridge CO 80033
 Email Address: 720 363 6416
 Project Manager: Jeremy Espinoza
 Project Name: Howard 30N, 4C, 29N-21HZ O Fac BT1
 Project Number: 09A14171102
 Collected By: Max Gaffy
 Invoice/Billing Info: KMG Team
 Key: W=Water
GW=Groundwater
SW=Surface Water
WW=Waste Water
L=Liquid

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

| # | Sample ID | Date Sampled | Time Sampled | # of Containers | Matrix | Preservative | Analysis | | | | Comments | | | | | | | | | | |
|----|------------|--------------|--------------|-----------------|--------|--------------|----------|--|--|--|----------|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | | | | | | | | |
| 1 | SS01205-WP | 11/27/25 | 15:06 | 3 | S | UNP | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | |

Relinquished By: M. Bally Date: 11/27/25 Time: 8:49
 Received By: [Signature] Date: 11/27/25 Time: 8:49
 Turnaround Time: SAME DAY 24 Hr 48 Hr 72 Hr
 Temp Received: 38.6 Received On Ice? Yes No
 1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com | For Lab Sample Receiving Only

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 FAC BT1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: ESA0555

Client: ENSOLUM

Client Project ID: HOWARD

Checklist Completed by: JHO

Shipped Via: HO

Date/time completed: 1/27/12

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

Airbill #: N/A

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

Cooler Number/Temperature: 1, 13.8 °c (Describe)

Thermometer ID: 7007

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

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

Reviewed by (Project Manager) JHO Date/Time Reviewed 1/27/12

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Jeremy Espinoza
 Project Number: 09A14171102
 Project: KMG - Howard 30N, 4C, 29N-21HZ O
 FAC BT1

SS01@0.5'-WP

1/25/2025 3:06:00PM

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

Origins Laboratory
E5A0555-01 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|-------|--------|------|---|---------|------------|------------|
| Boron | 0.162 | 0.0993 | mg/L | 1 | B5A2747 | 01/27/2025 | 01/29/2025 |
|-------|-------|--------|------|---|---------|------------|------------|

DRO/ORO by EPA 8015D

| | | | | | | | |
|-----------------------------------|-------|-----|-------|----|---------|------------|------------|
| Diesel (C10-C28) | 12800 | 250 | mg/kg | 10 | B5A2733 | 01/27/2025 | 01/28/2025 |
| Residual Range Organics (C28-C40) | 2810 | 100 | " | 1 | " | " | 01/28/2025 |

| | | | | | | | |
|--------------------------------|---|--------|---|---|---|---|------------------|
| Surrogate: <i>o</i> -Terphenyl | % | 50-150 | " | " | " | " | 01/28/2025-06, U |
|--------------------------------|---|--------|---|---|---|---|------------------|

GBTEX+TMBs by 8260D

| | | | | | | | |
|-----------------------------|-------|-------|-------|------|---------|------------|------------|
| 1,2,4-Trimethylbenzene | 364 | 5.00 | mg/kg | 2500 | B5A2743 | 01/27/2025 | 01/28/2025 |
| 1,3,5-Trimethylbenzene | 142 | 5.00 | " | " | " | " | " |
| Benzene | 155 | 5.00 | " | " | " | " | " |
| Ethylbenzene | 87.5 | 0.500 | " | 250 | " | " | 01/27/2025 |
| Toluene | 733 | 5.00 | " | 2500 | " | " | 01/28/2025 |
| Xylenes, total | 1260 | 5.00 | " | " | " | " | " |
| Gasoline Range Hydrocarbons | 29400 | 500 | " | " | " | " | " |

| | | | | | | |
|----------------------------------|--------|--------|---|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 98.6 % | 70-130 | " | " | " | " |
| Surrogate: Toluene-d8 | 124 % | 70-130 | " | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 104 % | 70-130 | " | " | " | " |

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 FAC BT1

SS01@0.5'-WP

1/25/2025 3:06:00PM

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

Origins Laboratory
E5A0555-01 (Soil)

Metals by Saturated Paste by EPA 6010

| | | | | | | | | | |
|-----------|------|--|-------|-------|----|--------|------------|------------|--|
| Calcium | 1.27 | | 0.499 | meq/L | 10 | [CALC] | 01/27/2025 | 01/30/2025 | |
| Magnesium | ND | | 0.823 | " | " | " | " | " | |
| Sodium | ND | | 0.435 | " | " | " | " | " | |

PAH by SW8270

| | | | | | | | | | |
|--|--------|--------|--------|-------|----|---------|------------|------------|--|
| 1-Methylnaphthalene | 3.71 | 0.0300 | 0.0300 | mg/kg | 10 | BIA1121 | 01/30/2025 | 01/30/2025 | |
| 2-Methylnaphthalene | 8.33 | 0.0750 | 0.0750 | " | " | " | " | " | |
| Acenaphthene | ND | 0.0416 | 0.0416 | " | " | " | " | " | |
| Anthracene | ND | 0.0416 | 0.0416 | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.0110 | 0.0110 | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.0416 | 0.0416 | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.0416 | 0.0416 | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.0416 | 0.0416 | " | " | " | " | " | |
| Chrysene | 0.207 | 0.0416 | 0.0416 | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.0416 | 0.0416 | " | " | " | " | " | |
| Fluoranthene | ND | 0.0416 | 0.0416 | " | " | " | " | " | |
| Fluorene | 0.740 | 0.416 | 0.416 | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.0416 | 0.0416 | " | " | " | " | " | |
| Naphthalene | 2.82 | 0.0190 | 0.0190 | " | " | " | " | " | |
| Pyrene | 0.0750 | 0.0416 | 0.0416 | " | " | " | " | " | |
| Surrogate: 2,4,6-Tribromophenol (Surr) | 25.5 % | | 15-96 | | | " | " | " | |

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 FAC BT1

SS01@0.5'-WP

1/25/2025 3:06:00PM

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

Enthalpy Analytical
E5A0555-01 (Soil)

PAH by SW8270

| | | | | | | | | | |
|------------------------------------|--------|--|--------|--|--|-------------|------------|------------|----|
| Surrogate: 2-Fluorobiphenyl (Surr) | 36.5 % | | 19-105 | | | BIA112 1 | 01/30/2025 | 01/30/2025 | |
| Surrogate: 2-Fluorophenol (Surr) | 11.0 % | | 12-95 | | | " | " | " | DS |
| Surrogate: Nitrobenzene-d5 (Surr) | 101 % | | 21-100 | | | " | " | " | DS |
| Surrogate: Phenol-d5 (Surr) | 39.1 % | | 13-100 | | | " | " | " | |
| Surrogate: p-Terphenyl-d14 (Surr) | 39.4 % | | 25-125 | | | " | " | " | |

pH in Soil by 9045D

| | | | | | | | | | |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.18 | | | pH Units | 1 | B5A2750 | 01/27/2025 | 01/29/2025 | |
|----|------|--|--|----------|---|---------|------------|------------|--|

SAR by 20B Saturated Paste

| | | | | | | | | | |
|-----|-------|--|--------|-----|---|---------|------------|------------|--|
| SAR | 0.210 | | 0.0100 | SAR | 1 | B5A2744 | 01/27/2025 | 01/30/2025 | |
|-----|-------|--|--------|-----|---|---------|------------|------------|--|

Specific Conductance Mod. 9050A

| | | | | | | | | | |
|---------------------------|-------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.253 | | 0.00500 | mmhos/cm | 1 | B5A2750 | 01/27/2025 | 01/31/2025 | |
|---------------------------|-------|--|---------|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|---------|------|--|--------|-------|----|---------|------------|------------|--|
| Arsenic | 3.17 | | 0.263 | mg/kg | 10 | B5A2738 | 01/27/2025 | 01/28/2025 | |
| Barium | 46.0 | | 9.08 | " | " | " | " | " | |
| Cadmium | ND | | 0.0908 | " | " | " | " | " | |
| Copper | ND | | 9.08 | " | " | " | " | " | |
| Lead | 5.24 | | 0.908 | " | " | " | " | " | |

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FAC BT1

SS01@0.5'-WP

1/25/2025 3:06:00PM

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

**Origins Laboratory
E5A0555-01 (Soil)**

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|----------|------|--|--------|-------|----|---------|------------|------------|--|
| Nickel | 6.03 | | 0.908 | mg/kg | 10 | B5A2738 | 01/27/2025 | 01/28/2025 | |
| Selenium | ND | | 0.236 | " | " | " | " | " | |
| Silver | ND | | 0.0908 | " | " | " | " | " | |
| Zinc | ND | | 33.6 | " | " | " | " | " | |

Total Metals by SW7196

| | | | | | | | | | |
|----------------------|----|------|------|-------|---|---------|------------|------------|--|
| Chromium, Hexavalent | ND | 0.20 | 0.20 | mg/kg | 1 | BIB0433 | 02/11/2025 | 02/13/2025 | |
|----------------------|----|------|------|-------|---|---------|------------|------------|--|

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 FAC BT1

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| Batch B5A2733 - EPA 3550B | | | | | | | | | | |
| Blank (B5A2733-BLK1) | | | | | | | | | | |
| | | | | | Prepared: 01/27/2025 Analyzed: 01/27/2025 | | | | | |
| Diesel (C10-C28) | ND | 25.0 | mg/kg | | | | | | | U |
| Residual Range Organics (C28-C40) | ND | 100 | " | | | | | | | U |
| Surrogate: o-Terphenyl | 26 | | " | 24.9 | | 104 | 50-150 | | | |

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

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

Batch B5A2733 - EPA 3550B

LCS (B5A2733-BS1)

Prepared: 01/27/2025 Analyzed: 01/27/2025

| | | | | | | | | | | |
|-----------------------------------|------|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28) | 928 | 50.0 | mg/kg | 1000 | | 92.8 | 70-130 | | | |
| Residual Range Organics (C28-C40) | 1010 | 200 | " | 1000 | | 101 | 70-130 | | | |
| Surrogate: o-Terphenyl | 54 | | " | 49.8 | | 109 | 50-150 | | | |

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FAC BT1

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

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

Batch B5A2733 - EPA 3550B

| Matrix Spike (B5A2733-MS1) | Source: E5A0568-01 | | | Prepared: 01/27/2025 Analyzed: 01/27/2025 | | | | | | |
|-----------------------------------|---------------------------|------|-------|--|----|------|--------|--|--|--|
| Diesel (C10-C28) | 910 | 50.0 | mg/kg | 1000 | ND | 91.0 | 70-130 | | | |
| Residual Range Organics (C28-C40) | 993 | 200 | " | 1000 | ND | 99.3 | 70-130 | | | |
| <i>Surrogate: o-Terphenyl</i> | 44 | | " | 49.8 | | 89.1 | 50-150 | | | |

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|---------------------------|-------|-------------|---|------|-------------|-------|-----------|-------|
| Batch B5A2733 - EPA 3550B | | | | | | | | | | |
| Matrix Spike Dup (B5A2733-MSD1) | | Source: E5A0568-01 | | | Prepared: 01/27/2025 Analyzed: 01/27/2025 | | | | | |
| Diesel (C10-C28) | 934 | 50.0 | mg/kg | 1000 | ND | 93.4 | 70-130 | 2.56 | 35 | |
| Residual Range Organics (C28-C40) | 1000 | 200 | " | 1000 | ND | 100 | 70-130 | 0.958 | 35 | |
| Surrogate: o-Terphenyl | 43 | | " | 49.8 | | 86.2 | 50-150 | | | |

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

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

Batch B5A2743 - EPA 5030 (soil)

Blank (B5A2743-BLK1)

Prepared: 01/27/2025 Analyzed: 01/27/2025

| | | | | | | | | | | |
|----------------------------------|------|---------|-------|-------|------|--|--------|--|--|---|
| 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 | 101 | | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | 97.2 | | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.13 | | " | 0.125 | 106 | | 70-130 | | | |

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

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

Batch B5A2743 - EPA 5030 (soil)

LCS (B5A2743-BS1)

Prepared: 01/27/2025 Analyzed: 01/27/2025

| | | | | | | | | | | |
|----------------------------------|--------|---------|-------|-------|--|------|--------|--|--|--|
| 1,2,4-Trimethylbenzene | 0.102 | 0.00200 | mg/kg | 0.100 | | 102 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.106 | 0.00200 | " | 0.100 | | 106 | 70-130 | | | |
| Benzene | 0.0959 | 0.00200 | " | 0.100 | | 95.9 | 70-130 | | | |
| Ethylbenzene | 0.100 | 0.00200 | " | 0.100 | | 100 | 70-130 | | | |
| Naphthalene | 0.0956 | 0.00380 | " | 0.100 | | 95.6 | 70-130 | | | |
| Toluene | 0.0963 | 0.00200 | " | 0.100 | | 96.3 | 70-130 | | | |
| o-Xylene | 0.0993 | 0.00200 | " | 0.100 | | 99.3 | 70-130 | | | |
| m,p-Xylene | 0.172 | 0.00400 | " | 0.200 | | 86.1 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.12 | | " | 0.125 | | 97.2 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.13 | | " | 0.125 | | 101 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.12 | | " | 0.125 | | 96.5 | 70-130 | | | |

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

Jeremy Espinoza
Project Number: 09A14171102
Project: KMG - Howard 30N, 4C, 29N-21HZ O
FAC BT1

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

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

Batch B5A2743 - EPA 5030 (soil)

| Matrix Spike (B5A2743-MS1) | Source: E5A0568-01 | | | Prepared: 01/27/2025 Analyzed: 01/27/2025 | | | | | | |
|----------------------------------|--------------------|---------|-------|---|---------|------|--------|--|--|--|
| 1,2,4-Trimethylbenzene | 0.0877 | 0.00200 | mg/kg | 0.100 | ND | 87.7 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0916 | 0.00200 | " | 0.100 | ND | 91.6 | 70-130 | | | |
| Benzene | 0.0871 | 0.00200 | " | 0.100 | ND | 87.1 | 70-130 | | | |
| Ethylbenzene | 0.0872 | 0.00200 | " | 0.100 | ND | 87.2 | 70-130 | | | |
| Naphthalene | 0.0927 | 0.00380 | " | 0.100 | 0.00844 | 84.2 | 70-130 | | | |
| Toluene | 0.0860 | 0.00200 | " | 0.100 | ND | 86.0 | 70-130 | | | |
| o-Xylene | 0.0873 | 0.00200 | " | 0.100 | ND | 87.3 | 70-130 | | | |
| m,p-Xylene | 0.150 | 0.00400 | " | 0.200 | ND | 75.2 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.13 | | " | 0.125 | | 105 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 98.7 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.12 | | " | 0.125 | | 95.6 | 70-130 | | | |

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FAC BT1

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

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

Batch B5A2743 - EPA 5030 (soil)

| Matrix Spike Dup (B5A2743-MSD1) | Source: E5A0568-01 | | | Prepared: 01/27/2025 Analyzed: 01/28/2025 | | | | | | |
|----------------------------------|--------------------|---------|-------|---|---------|------|--------|-------|----|--|
| 1,2,4-Trimethylbenzene | 0.0807 | 0.00200 | mg/kg | 0.100 | ND | 80.7 | 70-130 | 8.34 | 20 | |
| 1,3,5-Trimethylbenzene | 0.0824 | 0.00200 | " | 0.100 | ND | 82.4 | 70-130 | 10.6 | 20 | |
| Benzene | 0.0878 | 0.00200 | " | 0.100 | ND | 87.8 | 70-130 | 0.869 | 20 | |
| Ethylbenzene | 0.0809 | 0.00200 | " | 0.100 | ND | 80.9 | 70-130 | 7.47 | 20 | |
| Naphthalene | 0.104 | 0.00380 | " | 0.100 | 0.00844 | 95.3 | 70-130 | 11.3 | 20 | |
| Toluene | 0.0833 | 0.00200 | " | 0.100 | ND | 83.3 | 70-130 | 3.21 | 20 | |
| o-Xylene | 0.0829 | 0.00200 | " | 0.100 | ND | 82.9 | 70-130 | 5.17 | 20 | |
| m,p-Xylene | 0.140 | 0.00400 | " | 0.200 | ND | 70.2 | 70-130 | 6.93 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.14 | | " | 0.125 | | 111 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 95.7 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.12 | | " | 0.125 | | 95.3 | 70-130 | | | |

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 FAC BT1

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

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

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

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

Batch B5A2738 - EPA 3050B

Blank (B5A2738-BLK1)

Prepared: 01/27/2025 Analyzed: 01/28/2025

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

LCS (B5A2738-BS1)

Prepared: 01/27/2025 Analyzed: 01/28/2025

| | | | | | | |
|----------|------|-------|-------|------|------|--------|
| Arsenic | 4.80 | 0.290 | mg/kg | 5.00 | 96.1 | 80-120 |
| Barium | 458 | 10.0 | " | 500 | 91.7 | 80-120 |
| Cadmium | 4.96 | 0.100 | " | 5.00 | 99.3 | 80-120 |
| Copper | 47.9 | 10.0 | " | 50.0 | 95.9 | 80-120 |
| Lead | 4.74 | 1.00 | " | 5.00 | 94.8 | 80-120 |
| Nickel | 4.83 | 1.00 | " | 5.00 | 96.7 | 80-120 |
| Selenium | 4.77 | 0.260 | " | 5.00 | 95.3 | 80-120 |
| Silver | 4.93 | 0.100 | " | 5.00 | 98.6 | 80-120 |
| Zinc | 50.0 | 37.0 | " | 50.0 | 100 | 80-120 |

Matrix Spike (B5A2738-MS1)

Source: E5A0555-01

Prepared: 01/27/2025 Analyzed: 01/28/2025

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 Project: KMG - Howard 30N, 4C, 29N-21HZ O
 FAC BT1

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

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

Batch B5A2738 - EPA 3050B

| Matrix Spike (B5A2738-MS1) | Source: E5A0555-01 | | | | Prepared: 01/27/2025 Analyzed: 01/28/2025 | | | | | |
|-----------------------------------|---------------------------|--------|-------|------|--|------|--------|--|--|--|
| Arsenic | 8.30 | 0.261 | mg/kg | 4.49 | 3.17 | 114 | 75-125 | | | |
| Barium | 472 | 8.99 | " | 449 | 46.0 | 94.8 | 75-125 | | | |
| Cadmium | 4.64 | 0.0899 | " | 4.49 | 0.0699 | 102 | 75-125 | | | |
| Copper | 53.4 | 8.99 | " | 44.9 | 5.91 | 106 | 75-125 | | | |
| Lead | 9.79 | 0.899 | " | 4.49 | 5.24 | 101 | 75-125 | | | |
| Nickel | 11.2 | 0.899 | " | 4.49 | 6.03 | 114 | 75-125 | | | |
| Selenium | 4.75 | 0.234 | " | 4.49 | 0.150 | 102 | 75-125 | | | |
| Silver | 4.59 | 0.0899 | " | 4.49 | ND | 102 | 75-125 | | | |
| Zinc | 71.3 | 33.2 | " | 44.9 | 23.5 | 106 | 75-125 | | | |

| Matrix Spike Dup (B5A2738-MSD1) | Source: E5A0555-01 | | | | Prepared: 01/27/2025 Analyzed: 01/28/2025 | | | | | |
|--|---------------------------|--------|-------|------|--|------|--------|-------|----|--|
| Arsenic | 7.21 | 0.263 | mg/kg | 4.53 | 3.17 | 89.1 | 75-125 | 14.2 | 20 | |
| Barium | 461 | 9.07 | " | 453 | 46.0 | 91.4 | 75-125 | 2.43 | 20 | |
| Cadmium | 4.60 | 0.0907 | " | 4.53 | 0.0699 | 100 | 75-125 | 0.739 | 20 | |
| Copper | 51.0 | 9.07 | " | 45.3 | 5.91 | 99.5 | 75-125 | 4.53 | 20 | |
| Lead | 9.13 | 0.907 | " | 4.53 | 5.24 | 85.8 | 75-125 | 6.91 | 20 | |
| Nickel | 10.9 | 0.907 | " | 4.53 | 6.03 | 108 | 75-125 | 1.96 | 20 | |
| Selenium | 4.72 | 0.236 | " | 4.53 | 0.150 | 101 | 75-125 | 0.584 | 20 | |
| Silver | 4.47 | 0.0907 | " | 4.53 | ND | 98.6 | 75-125 | 2.66 | 20 | |
| Zinc | 68.9 | 33.6 | " | 45.3 | 23.5 | 100 | 75-125 | 3.39 | 20 | |

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 Project: KMG - Howard 30N, 4C, 29N-21HZ O
 FAC BT1

Classical Chemistry Parameters - Quality Control
Origins Laboratory

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

Batch B5A2744 - Saturated Paste Metals

Blank (B5A2744-BLK1)

Prepared: 01/27/2025 Analyzed: 01/30/2025

| | | | | | | | | | |
|---------------|----|--------|------|--|--|--|--|--|--|
| 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 (B5A2744-DUP1)

Source: E5A0521-01

Prepared: 01/27/2025 Analyzed: 01/30/2025

| | | | | | | | | | |
|---------------|-----|--------|------|--|-----|--|--|------|-----|
| Calcium PPM | 139 | 10.0 | mg/L | | 142 | | | 2.64 | 50 |
| SAR | ND | 0.0100 | SAR | | ND | | | | 200 |
| Magnesium PPM | 417 | 10.0 | mg/L | | 436 | | | 4.45 | 50 |
| Sodium PPM | 204 | 10.0 | " | | 214 | | | 5.07 | 50 |

Batch B5A2747 - DTPA Sorbitol Preparation

Blank (B5A2747-BLK1)

Prepared: 01/27/2025 Analyzed: 01/29/2025

| | | | | | | | | | |
|-------|----|-------|------|--|--|--|--|--|--|
| Boron | ND | 0.100 | mg/L | | | | | | |
|-------|----|-------|------|--|--|--|--|--|--|

Duplicate (B5A2747-DUP1)

Source: E5A0518-01

Prepared: 01/27/2025 Analyzed: 01/29/2025

| | | | | | | | | | |
|-------|------|--------|------|--|------|--|--|------|----|
| Boron | 4.57 | 0.0993 | mg/L | | 4.29 | | | 6.34 | 50 |
|-------|------|--------|------|--|------|--|--|------|----|

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A14171102
Project: KMG - Howard 30N, 4C, 29N-21HZ O
FAC BT1

**Saturated Paste - Quality Control
Origins Laboratory**

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

Batch B5A2750 - Saturated Paste pH/EC

Blank (B5A2750-BLK1)

Prepared: 01/27/2025 Analyzed: 01/31/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B5A2750-DUP1)

Source: E5A0521-01

Prepared: 01/27/2025 Analyzed: 01/29/2025

| | | | | | | | | | | |
|---------------------------|------|---------|----------|--|------|--|--|-------|----|--|
| pH | 8.35 | | pH Units | | 8.38 | | | 0.359 | 25 | |
| Specific Conductance (EC) | 3.88 | 0.00500 | mmhos/cm | | 4.28 | | | 9.89 | 25 | |

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 Project: KMG - Howard 30N, 4C, 29N-21HZ O
 FAC BT1

PAH by SW8270 - Quality Control
Enthalpy Analytical

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

Batch BIA1121 - SW3550C/EPA600-MS

Blank (BIA1121-BLK1)

Prepared: 01/30/2025 Analyzed: 01/30/2025

| | | | | | | | | | | |
|--------------------------|----|---------|-------|--|--|--|---|--|--|--|
| 1-Methylnaphthalene | ND | 0.00600 | mg/kg | | | | - | | | |
| 2-Methylnaphthalene | ND | 0.0150 | " | | | | - | | | |
| Acenaphthene | ND | 0.0833 | " | | | | - | | | |
| Anthracene | ND | 0.0833 | " | | | | - | | | |
| Benzo (a) anthracene | ND | 0.0110 | " | | | | - | | | |
| Benzo (a) pyrene | ND | 0.0833 | " | | | | - | | | |
| Benzo (b) fluoranthene | ND | 0.0833 | " | | | | - | | | |
| Benzo (k) fluoranthene | ND | 0.0833 | " | | | | - | | | |
| Chrysene | ND | 0.0833 | " | | | | - | | | |
| Dibenz (a,h) anthracene | ND | 0.0833 | " | | | | - | | | |
| Fluoranthene | ND | 0.0833 | " | | | | - | | | |
| Fluorene | ND | 0.0833 | " | | | | - | | | |
| Indeno (1,2,3-cd) pyrene | ND | 0.0833 | " | | | | - | | | |
| Naphthalene | ND | 0.00380 | " | | | | - | | | |
| Pyrene | ND | 0.0833 | " | | | | - | | | |

| | | | | | | | | | | |
|--|-------|--|---|------|--|------|--------|--|--|--|
| Surrogate: 2,4,6-Tribromophenol (Surr) | 2.45 | | " | 3.33 | | 73.6 | 15-96 | | | |
| Surrogate: 2-Fluorobiphenyl (Surr) | 1.09 | | " | 1.67 | | 65.6 | 19-105 | | | |
| Surrogate: 2-Fluorophenol (Surr) | 1.51 | | " | 3.33 | | 45.4 | 12-95 | | | |
| Surrogate: Nitrobenzene-d5 (Surr) | 1.11 | | " | 1.67 | | 66.6 | 21-100 | | | |
| Surrogate: Phenol-d5 (Surr) | 2.56 | | " | 3.33 | | 76.8 | 13-100 | | | |
| Surrogate: p-Terphenyl-d14 (Surr) | 0.890 | | " | 1.67 | | 53.4 | 25-125 | | | |

LCS (BIA1121-BS1)

Prepared: 01/30/2025 Analyzed: 01/30/2025

| | | | | | | | | | | |
|---------------------|------|--------|-------|------|--|------|--------|--|--|--|
| 1-Methylnaphthalene | ND | 0.0833 | mg/kg | | | | 0-200 | | | |
| 2-Methylnaphthalene | ND | 0.0833 | " | | | | 70-130 | | | |
| Acenaphthene | 1.29 | 0.0833 | " | 1.67 | | 77.6 | 24-110 | | | |
| Anthracene | 1.18 | 0.0833 | " | 1.67 | | 70.6 | 25-117 | | | |

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 FAC BT1

PAH by SW8270 - Quality Control
Enthalpy Analytical

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

Batch BIA1121 - SW3550C/EPA600-MS

LCS (BIA1121-BS1)

Prepared: 01/30/2025 Analyzed: 01/30/2025

| | | | | | | | | | | |
|--|-------|--------|-------|------|--|------|--------|--|--|--|
| Benzo (a) anthracene | 1.19 | 0.0833 | mg/kg | 1.67 | | 71.2 | 25-127 | | | |
| Benzo (a) pyrene | 1.24 | 0.0833 | " | 1.67 | | 74.2 | 18-127 | | | |
| Benzo (b) fluoranthene | 1.38 | 0.0833 | " | 1.67 | | 82.6 | 20-132 | | | |
| Benzo (k) fluoranthene | 1.09 | 0.0833 | " | 1.67 | | 65.3 | 14-136 | | | |
| Chrysene | 1.23 | 0.0833 | " | 1.67 | | 73.9 | 21-141 | | | |
| Dibenz (a,h) anthracene | 1.58 | 0.0833 | " | 1.67 | | 94.6 | 10-142 | | | |
| Fluoranthene | 1.35 | 0.0833 | " | 1.67 | | 81.3 | 19-138 | | | |
| Fluorene | 1.29 | 0.0833 | " | 1.67 | | 77.2 | 25-114 | | | |
| Indeno (1,2,3-cd) pyrene | 1.45 | 0.0833 | " | 1.67 | | 86.8 | 10-136 | | | |
| Naphthalene | 1.22 | 0.0833 | " | 1.67 | | 73.0 | 18-109 | | | |
| Pyrene | 0.963 | 0.0833 | " | 1.67 | | 57.8 | 17-159 | | | |
| <hr/> | | | | | | | | | | |
| Surrogate: 2,4,6-Tribromophenol (Surr) | 2.62 | | " | 3.33 | | 78.7 | 15-96 | | | |
| Surrogate: 2-Fluorobiphenyl (Surr) | 1.16 | | " | 1.67 | | 69.4 | 19-105 | | | |
| Surrogate: 2-Fluorophenol (Surr) | 2.36 | | " | 3.33 | | 70.9 | 12-95 | | | |
| Surrogate: Nitrobenzene-d5 (Surr) | 1.20 | | " | 1.67 | | 71.9 | 21-100 | | | |
| Surrogate: Phenol-d5 (Surr) | 2.83 | | " | 3.33 | | 85.0 | 13-100 | | | |
| Surrogate: p-Terphenyl-d14 (Surr) | 1.10 | | " | 1.67 | | 66.1 | 25-125 | | | |

Matrix Spike (BIA1121-MS1)

Source: 25A1424-16

Prepared: 01/30/2025 Analyzed: 01/30/2025

| | | | | | | | | | | |
|------------------------|-------|--------|-------|------|----|------|--------|--|--|--|
| 1-Methylnaphthalene | ND | 0.0833 | mg/kg | | ND | | 0-200 | | | |
| 2-Methylnaphthalene | ND | 0.0833 | " | | ND | | 70-130 | | | |
| Acenaphthene | 1.10 | 0.0833 | " | 1.66 | ND | 66.2 | 10-124 | | | |
| Anthracene | 0.959 | 0.0833 | " | 1.66 | ND | 57.7 | 10-143 | | | |
| Benzo (a) anthracene | 1.02 | 0.0833 | " | 1.66 | ND | 61.1 | 10-169 | | | |
| Benzo (a) pyrene | 1.03 | 0.0833 | " | 1.66 | ND | 61.9 | 10-149 | | | |
| Benzo (b) fluoranthene | 0.979 | 0.0833 | " | 1.66 | ND | 58.9 | 10-150 | | | |
| Benzo (k) fluoranthene | 0.872 | 0.0833 | " | 1.66 | ND | 52.5 | 10-211 | | | |

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 FAC BT1

PAH by SW8270 - Quality Control
Enthalpy Analytical

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

Batch BIA1121 - SW3550C/EPA600-MS

| Matrix Spike (BIA1121-MS1) | Source: 25A1424-16 | | | Prepared: 01/30/2025 Analyzed: 01/30/2025 | | | | | | |
|---|---------------------------|--------|-------|--|----|------|--------|--|--|--|
| Chrysene | 1.03 | 0.0833 | mg/kg | 1.66 | ND | 62.3 | 10-172 | | | |
| Dibenz (a,h) anthracene | 1.17 | 0.0833 | " | 1.66 | ND | 70.6 | 10-128 | | | |
| Fluoranthene | 1.07 | 0.0833 | " | 1.66 | ND | 64.2 | 10-271 | | | |
| Fluorene | 1.10 | 0.0833 | " | 1.66 | ND | 66.1 | 10-124 | | | |
| Indeno (1,2,3-cd) pyrene | 1.07 | 0.0833 | " | 1.66 | ND | 64.5 | 10-127 | | | |
| Naphthalene | 0.917 | 0.0833 | " | 1.66 | ND | 55.2 | 10-118 | | | |
| Pyrene | 0.877 | 0.0833 | " | 1.66 | ND | 52.8 | 10-212 | | | |
| <i>Surrogate: 2,4,6-Tribromophenol (Surr)</i> | 2.23 | | " | 3.32 | | 67.1 | 15-96 | | | |
| <i>Surrogate: 2-Fluorobiphenyl (Surr)</i> | 0.975 | | " | 1.66 | | 58.7 | 19-105 | | | |
| <i>Surrogate: 2-Fluorophenol (Surr)</i> | 1.29 | | " | 3.32 | | 38.9 | 12-95 | | | |
| <i>Surrogate: Nitrobenzene-d5 (Surr)</i> | 1.02 | | " | 1.66 | | 61.2 | 21-100 | | | |
| <i>Surrogate: Phenol-d5 (Surr)</i> | 2.38 | | " | 3.32 | | 71.6 | 13-100 | | | |
| <i>Surrogate: p-Terphenyl-d14 (Surr)</i> | 0.842 | | " | 1.66 | | 50.7 | 25-125 | | | |

| Matrix Spike Dup (BIA1121-MSD1) | Source: 25A1424-16 | | | Prepared: 01/30/2025 Analyzed: 01/30/2025 | | | | | | |
|--|---------------------------|--------|-------|--|----|------|--------|-------|----|--|
| 1-Methylnaphthalene | ND | 0.0833 | mg/kg | | ND | | 0-200 | | 20 | |
| 2-Methylnaphthalene | ND | 0.0833 | " | | ND | | 70-130 | | 20 | |
| Acenaphthene | 1.01 | 0.0833 | " | 1.63 | ND | 62.0 | 10-124 | 8.49 | 20 | |
| Anthracene | 0.970 | 0.0833 | " | 1.63 | ND | 59.5 | 10-143 | 1.15 | 20 | |
| Benzo (a) anthracene | 0.936 | 0.0833 | " | 1.63 | ND | 57.5 | 10-169 | 8.11 | 20 | |
| Benzo (a) pyrene | 1.03 | 0.0833 | " | 1.63 | ND | 63.0 | 10-149 | 0.211 | 20 | |
| Benzo (b) fluoranthene | 1.14 | 0.0833 | " | 1.63 | ND | 69.8 | 10-150 | 15.0 | 20 | |
| Benzo (k) fluoranthene | 0.876 | 0.0833 | " | 1.63 | ND | 53.8 | 10-211 | 0.360 | 20 | |
| Chrysene | 1.00 | 0.0833 | " | 1.63 | ND | 61.4 | 10-172 | 3.43 | 20 | |
| Dibenz (a,h) anthracene | 1.23 | 0.0833 | " | 1.63 | ND | 75.6 | 10-128 | 4.92 | 20 | |
| Fluoranthene | 1.02 | 0.0833 | " | 1.63 | ND | 62.4 | 10-271 | 4.93 | 20 | |
| Fluorene | 0.938 | 0.0833 | " | 1.63 | ND | 57.6 | 10-124 | 15.7 | 20 | |

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

Jeremy Espinoza
Project Number: 09A14171102
Project: KMG - Howard 30N, 4C, 29N-21HZ O
FAC BT1

**PAH by SW8270 - Quality Control
Enthalpy Analytical**

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

Batch BIA1121 - SW3550C/EPA600-MS

| Matrix Spike Dup (BIA1121-MSD1) | Source: 25A1424-16 | | | Prepared: 01/30/2025 Analyzed: 01/30/2025 | | | | | | |
|--|--------------------|--------|-------|---|----|------|--------|------|----|--|
| Indeno (1,2,3-cd) pyrene | 1.13 | 0.0833 | mg/kg | 1.63 | ND | 69.1 | 10-127 | 4.90 | 20 | |
| Naphthalene | 0.866 | 0.0833 | " | 1.63 | ND | 53.2 | 10-118 | 5.79 | 20 | |
| Pyrene | 0.794 | 0.0833 | " | 1.63 | ND | 48.8 | 10-212 | 9.87 | 20 | |
| Surrogate: 2,4,6-Tribromophenol (Surr) | 2.18 | | " | 3.26 | | 66.9 | 15-96 | | | |
| Surrogate: 2-Fluorobiphenyl (Surr) | 0.904 | | " | 1.63 | | 55.5 | 19-105 | | | |
| Surrogate: 2-Fluorophenol (Surr) | 1.14 | | " | 3.26 | | 35.0 | 12-95 | | | |
| Surrogate: Nitrobenzene-d5 (Surr) | 0.888 | | " | 1.63 | | 54.5 | 21-100 | | | |
| Surrogate: Phenol-d5 (Surr) | 2.21 | | " | 3.26 | | 67.9 | 13-100 | | | |
| Surrogate: p-Terphenyl-d14 (Surr) | 0.840 | | " | 1.63 | | 51.6 | 25-125 | | | |

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Ensolum
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171102
 Project: KMG - Howard 30N, 4C, 29N-21HZ O
 FAC BT1

Total Metals by SW7196 - Quality Control
Enthalpy Analytical

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|-----------------|-------|-------------|--|------|-------------|------|-----------|-------|
| Batch BIB0433 - No Prep Wet Chem | | | | | | | | | | |
| Blank (BIB0433-BLK1) | | | | | Prepared: 02/11/2025 Analyzed: 02/13/2025 | | | | | |
| Chromium, Hexavalent | ND | 0.005 | mg/kg | | | | - | | | |
| LCS (BIB0433-BS1) | | | | | Prepared: 02/11/2025 Analyzed: 02/13/2025 | | | | | |
| Chromium, Hexavalent | 0.05 | | mg/kg | 0.0500 | | 98.0 | 80-120 | | | |
| LCS (BIB0433-BS2) | | | | | Prepared: 02/11/2025 Analyzed: 02/13/2025 | | | | | |
| Chromium, Hexavalent | 10.0 | 1.00 | mg/kg | 8.42 | | 119 | 80-120 | | | |
| Matrix Spike (BIB0433-MS1) | | | | | Source: 25A1291-02 Prepared: 02/11/2025 Analyzed: 02/13/2025 | | | | | |
| Chromium, Hexavalent | 1.97 | 0.20 | mg/kg | 2.01 | ND | 98.0 | 75-125 | | | |
| Matrix Spike Dup (BIB0433-MSD1) | | | | | Source: 25A1291-02 Prepared: 02/11/2025 Analyzed: 02/13/2025 | | | | | |
| Chromium, Hexavalent | 1.80 | 0.20 | mg/kg | 2.00 | ND | 90.0 | 75-125 | 9.18 | 20 | |

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

Jeremy Espinoza
Project Number: 09A14171102
Project: KMG - Howard 30N, 4C, 29N-21HZ O
FAC BT1

Notes and Definitions

- U Sample is Non-Detect.
- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- P Duplicate analysis does not meet the acceptance criteria for precision
- M Matrix spike recovery is outside established acceptance limits
- L LCS recovery is outside of established acceptance limits
- DS Surrogate concentration reflects a dilution factor.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

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