

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 09, 2022

Levi Kirk

K.P. Kauffman

1675 Broadway

Denver, CO 80202

RE: Facility #4 AE2

Work Order #2209049

Enclosed are the results of analyses for samples received by Summit Scientific on 09/02/22 15:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury
President



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| SW-7@7' | 2209049-01 | Soil | 09/02/22 10:35 | 09/02/22 15:00 |
| SW-8@7' | 2209049-02 | Soil | 09/02/22 10:40 | 09/02/22 15:00 |

Summit Scientific

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.

2209049

Summit Scientific

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Page 1 of 1

Client: K.P. Kauffman Company, Inc

Project Manager: Levi Kirk

Address: 1675 Broadway

E-Mail: Primary Contractor @ msc.com

City/State/Zip: Denver, CO 80202

Phone: 303-825-4822

Project Name: Facility 4 AE2

Sampler Name: HC

Project Number:

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative | | | | Matrix | | | | Analysis Requested | | | | | | Special Instructions | |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|----------------|-------|--------------------|--|--|--|--|--|----------------------|--|
| | | | | | HCl | HNO3 | None | Other | Water | Soil | Air-Canister # | Other | | | | | | | | |
| 1 | SW-7 @ 7' | 9-2-20 | 1035 | 1 | | | X | | | | | | | | | | | | | |
| 2 | SW-8 @ 7' | 1 | 1040 | 1 | | | X | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | |

| | | | | | |
|--------------------------------------|---------------------------------|---------------------------------|-------------------------------|---|---------------|
| Relinquished by: <u>[Signature]</u> | Date/Time: <u>9-2-20 1500</u> | Received by: <u>[Signature]</u> | Date/Time: <u>9-2-20 1500</u> | Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 48 hours <input type="checkbox"/> | Notes: |
| Relinquished by: | Date/Time: | Received by: | Date/Time: | | |
| Temperature Upon Receipt: <u>8.9</u> | Corrected Temperature: <u>0</u> | HNO3 lot # | | | |
| IR gun correction: <u>0</u> | IR gun #: <u>9</u> | | | Sample Integrity: Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No | |

S₂

Sample Receipt Checklist

S2 Work Order# 2209049

Client: kpk Client Project ID: Facility 4 AEZ

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other [] Airbill #: []

[] [] [] [] []

Matrix (Check all that apply) Air [] Soil/Solid [/] Water [] Other []

Temp (°C) [8.9] Thermometer # []

| | Yes | No | N/A | Comments (if any) |
|---|-------|-----|-------|-------------------|
| If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun. | [-] | [] | [] | ON ICE |
| If custody seals are present, are they intact? ⁽¹⁾ | [-] | [] | [] | |
| Are samples due within 48 hours present? | [-] | [] | [] | 24 hrs |
| Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen | [] | [] | [-] | |
| Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾ | [-] | [] | [] | |
| Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾ | [✓] | [] | [] | |
| Were all samples received intact? ⁽¹⁾ | [✓] | [] | [] | |
| Was adequate sample volume provided? ⁽¹⁾ | [✓] | [] | [] | |
| Does the COC agree with the number and type of sample bottles received? ⁽¹⁾ | [✓] | [] | [] | |
| Do the sample IDs on the bottle labels match the COC? ⁽¹⁾ | [✓] | [] | [] | |
| For volatiles in water – is there headspace present? If yes, contact client and note in narrative. | [] | [] | [✓] | |
| Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc. | [] | [] | [-] | |
| If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments. | [] | [] | [✓] | |
| If dissolved metals are requested, were samples field filtered? | [] | [] | [✓] | |

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

CS
Custodian Printed Name

9-2-22 17:10
Date/Time



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

SW-7@7'
2209049-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/02/22 10:35**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| Benzene | ND | 0.0020 | | mg/kg | 1 | BF10061 | 09/02/22 | 09/03/22 | EPA 8260B | |
| Toluene | ND | 0.0050 | | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | | " | " | " | " | " | " | |

Date Sampled: **09/02/22 10:35**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | | 141 % | | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 86.8 % | | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 82.9 % | | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/02/22 10:35**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | | | | | | | | |
| C10-C28 (DRO) | ND | 50 | | mg/kg | 1 | BF10062 | 09/02/22 | 09/03/22 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | | " | " | " | " | " | " | |

Date Sampled: **09/02/22 10:35**

| Analyte | Result | Reporting | | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
| | | Limit | | | | | | | | |
| Surrogate: o-Terphenyl | | 116 % | | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

SW-7@7'
2209049-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/02/22 10:35**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BF10084 | 09/06/22 | 09/06/22 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **09/02/22 10:35**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | | 67.1 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | | 46.9 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/02/22 10:35**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.316 | 0.0100 | mg/L | 1 | BF10113 | 09/06/22 | 09/07/22 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **09/02/22 10:35**

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

Summit Scientific

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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

SW-7@7'
2209049-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 3.22 | 0.223 | mg/kg dry | 1 | BF10089 | 09/06/22 | 09/07/22 | EPA 6020B | |
| Barium | 117 | 0.445 | " | " | " | " | " | " | |
| Cadmium | ND | 0.223 | " | " | " | " | " | " | |
| Copper | 10.6 | 0.445 | " | " | " | " | " | " | |
| Lead | 6.77 | 0.223 | " | " | " | " | " | " | |
| Nickel | 11.6 | 0.445 | " | " | " | " | " | " | |
| Selenium | 0.714 | 0.289 | " | " | " | " | " | " | |
| Silver | 0.0395 | 0.0223 | " | " | " | " | " | " | |
| Zinc | 38.9 | 0.445 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/02/22 10:35**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BF10087 | 09/06/22 | 09/07/22 | EPA 7196A | |

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **09/02/22 10:35**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 279 | 0.0556 | mg/L dry | 1 | BF10146 | 09/07/22 | 09/09/22 | EPA 6020B | |
| Magnesium | 186 | 0.0556 | " | " | " | " | " | " | |
| Sodium | 731 | 0.0556 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **09/02/22 10:35**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 8.32 | 0.00100 | units | 1 | BF10220 | 09/09/22 | 09/09/22 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/02/22 10:35**

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

Summit Scientific

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.



K.P. Kauffman
 1675 Broadway
 Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
 Project Manager: Levi Kirk

Reported:
 09/09/22 12:31

SW-7@7'
2209049-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

| | | | | | | | |
|-----------------|-------------|---|---|---------|----------|----------|-------------|
| % Solids | 89.9 | % | 1 | BFI0156 | 09/07/22 | 09/08/22 | Calculation |
|-----------------|-------------|---|---|---------|----------|----------|-------------|

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/02/22 10:35**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 4.88 | 0.0100 | mmhos/cm | 1 | BFI0178 | 09/08/22 | 09/08/22 | EPA 120.1 | |

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **09/02/22 10:35**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 7.80 | | pH Units | 1 | BFI0179 | 09/08/22 | 09/08/22 | EPA 9045D | |

Summit Scientific

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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

SW-8@7'
2209049-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/02/22 10:40**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0020 | mg/kg | 1 | BFI0061 | 09/02/22 | 09/03/22 | EPA 8260B | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.010 | " | " | " | " | " | " | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Naphthalene | ND | 0.0038 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | " | " | " | " | " | |

Date Sampled: **09/02/22 10:40**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | | 143 % | 50-150 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 86.6 % | 50-150 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 83.7 % | 50-150 | | " | " | " | " | |

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/02/22 10:40**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | BFI0062 | 09/02/22 | 09/03/22 | EPA 8015M | |
| C28-C36 (ORO) | ND | 50 | " | " | " | " | " | " | |

Date Sampled: **09/02/22 10:40**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | | 121 % | 30-150 | | " | " | " | " | |

PAH by EPA Method 8270D SIM

Summit Scientific

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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

SW-8@7'
2209049-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/02/22 10:40**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 0.00500 | mg/kg | 1 | BF10084 | 09/06/22 | 09/06/22 | EPA 8270D SIM | |
| Anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Chrysene | ND | 0.00500 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluoranthene | ND | 0.00500 | " | " | " | " | " | " | |
| Fluorene | ND | 0.00500 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| Pyrene | ND | 0.00500 | " | " | " | " | " | " | |
| 1-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |
| 2-Methylnaphthalene | ND | 0.00500 | " | " | " | " | " | " | |

Date Sampled: **09/02/22 10:40**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | | 69.7 % | 40-150 | | " | " | " | " | |
| Surrogate: Fluoranthene-d10 | | 43.4 % | 40-150 | | " | " | " | " | |

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/02/22 10:40**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron | 0.429 | 0.0100 | mg/L | 1 | BF10113 | 09/06/22 | 09/07/22 | EPA 6020B | |

Total Metals by EPA 6020B

Date Sampled: **09/02/22 10:40**

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

Summit Scientific

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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

SW-8@7'
2209049-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic | 3.73 | 0.222 | mg/kg dry | 1 | BF10089 | 09/06/22 | 09/07/22 | EPA 6020B | |
| Barium | 140 | 0.445 | " | " | " | " | " | " | |
| Cadmium | ND | 0.222 | " | " | " | " | " | " | |
| Copper | 12.8 | 0.445 | " | " | " | " | " | " | |
| Lead | 9.27 | 0.222 | " | " | " | " | " | " | |
| Nickel | 13.9 | 0.445 | " | " | " | " | " | " | |
| Selenium | 0.877 | 0.289 | " | " | " | " | " | " | |
| Silver | 0.0620 | 0.0222 | " | " | " | " | " | " | |
| Zinc | 45.8 | 0.445 | " | " | " | " | " | " | |

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/02/22 10:40**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND | 0.30 | mg/kg dry | 1 | BF10087 | 09/06/22 | 09/07/22 | EPA 7196A | |

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **09/02/22 10:40**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium | 49.9 | 0.0556 | mg/L dry | 1 | BF10146 | 09/07/22 | 09/09/22 | EPA 6020B | |
| Magnesium | 21.2 | 0.0556 | " | " | " | " | " | " | |
| Sodium | 99.0 | 0.0556 | " | " | " | " | " | " | |

Calculated Analysis

Date Sampled: **09/02/22 10:40**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 2.96 | 0.00100 | units | 1 | BF10220 | 09/09/22 | 09/09/22 | Calculation | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/02/22 10:40**

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

Summit Scientific

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.



K.P. Kauffman
 1675 Broadway
 Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
 Project Manager: Levi Kirk

Reported:
 09/09/22 12:31

SW-8@7'
2209049-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

| | | | | | | | |
|-----------------|-------------|---|---|---------|----------|----------|-------------|
| % Solids | 90.0 | % | 1 | BFI0156 | 09/07/22 | 09/08/22 | Calculation |
|-----------------|-------------|---|---|---------|----------|----------|-------------|

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/02/22 10:40**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.958 | 0.0100 | mmhos/cm | 1 | BFI0178 | 09/08/22 | 09/08/22 | EPA 120.1 | |

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **09/02/22 10:40**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.00 | | pH Units | 1 | BFI0179 | 09/08/22 | 09/08/22 | EPA 9045D | |

Summit Scientific

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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFI0061 - EPA 5030 Soil MS

Blank (BFI0061-BLK1)

Prepared & Analyzed: 09/02/22

| | | | | | | | | | | |
|---|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene | ND | 0.0020 | mg/kg | | | | | | | |
| Toluene | ND | 0.0050 | " | | | | | | | |
| Ethylbenzene | ND | 0.0050 | " | | | | | | | |
| Xylenes (total) | ND | 0.010 | " | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.0050 | " | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.0050 | " | | | | | | | |
| Naphthalene | ND | 0.0038 | " | | | | | | | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | | | | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0395 | | " | 0.0400 | | 98.7 | 50-150 | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0396 | | " | 0.0400 | | 98.9 | 50-150 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0413 | | " | 0.0400 | | 103 | 50-150 | | | |

LCS (BFI0061-BS1)

Prepared & Analyzed: 09/02/22

| | | | | | | | | | | |
|---|--------|--------|-------|--------|--|-----|--------|--|--|--|
| Benzene | 0.161 | 0.0020 | mg/kg | 0.150 | | 108 | 70-130 | | | |
| Toluene | 0.161 | 0.0050 | " | 0.150 | | 107 | 70-130 | | | |
| Ethylbenzene | 0.157 | 0.0050 | " | 0.150 | | 104 | 70-130 | | | |
| m,p-Xylene | 0.314 | 0.010 | " | 0.300 | | 105 | 70-130 | | | |
| o-Xylene | 0.157 | 0.0050 | " | 0.150 | | 105 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.159 | 0.0050 | " | 0.150 | | 106 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.160 | 0.0050 | " | 0.150 | | 106 | 70-130 | | | |
| Naphthalene | 0.156 | 0.0038 | " | 0.150 | | 104 | 70-130 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0410 | | " | 0.0400 | | 102 | 50-150 | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0407 | | " | 0.0400 | | 102 | 50-150 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0406 | | " | 0.0400 | | 101 | 50-150 | | | |

Matrix Spike (BFI0061-MS1)

Source: 2209045-01

Prepared & Analyzed: 09/02/22

| | | | | | | | | | | |
|---|--------|--------|-------|--------|----|------|--------|--|--|--|
| Benzene | 0.155 | 0.0020 | mg/kg | 0.150 | ND | 103 | 70-130 | | | |
| Toluene | 0.155 | 0.0050 | " | 0.150 | ND | 104 | 70-130 | | | |
| Ethylbenzene | 0.150 | 0.0050 | " | 0.150 | ND | 99.8 | 70-130 | | | |
| m,p-Xylene | 0.298 | 0.010 | " | 0.300 | ND | 99.4 | 70-130 | | | |
| o-Xylene | 0.149 | 0.0050 | " | 0.150 | ND | 99.0 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.150 | 0.0050 | " | 0.150 | ND | 100 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.153 | 0.0050 | " | 0.150 | ND | 102 | 70-130 | | | |
| Naphthalene | 0.144 | 0.0038 | " | 0.150 | ND | 95.8 | 70-130 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0406 | | " | 0.0400 | | 101 | 50-150 | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0405 | | " | 0.0400 | | 101 | 50-150 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0398 | | " | 0.0400 | | 99.4 | 50-150 | | | |

Summit Scientific

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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFI0061 - EPA 5030 Soil MS

| Matrix Spike Dup (BFI0061-MSD1) | Source: 2209045-01 | | | Prepared & Analyzed: 09/02/22 | | | | | | |
|---|---------------------------|--------|----------|--|----|-------------|---------------|-------|----|--|
| Benzene | 0.158 | 0.0020 | mg/kg | 0.150 | ND | 105 | 70-130 | 1.78 | 30 | |
| Toluene | 0.158 | 0.0050 | " | 0.150 | ND | 105 | 70-130 | 1.46 | 30 | |
| Ethylbenzene | 0.151 | 0.0050 | " | 0.150 | ND | 100 | 70-130 | 0.639 | 30 | |
| m,p-Xylene | 0.300 | 0.010 | " | 0.300 | ND | 100 | 70-130 | 0.712 | 30 | |
| o-Xylene | 0.150 | 0.0050 | " | 0.150 | ND | 100 | 70-130 | 1.28 | 30 | |
| 1,2,4-Trimethylbenzene | 0.151 | 0.0050 | " | 0.150 | ND | 101 | 70-130 | 0.338 | 30 | |
| 1,3,5-Trimethylbenzene | 0.154 | 0.0050 | " | 0.150 | ND | 103 | 70-130 | 0.332 | 30 | |
| Naphthalene | 0.147 | 0.0038 | " | 0.150 | ND | 98.3 | 70-130 | 2.54 | 30 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0402</i> | | <i>"</i> | <i>0.0400</i> | | <i>100</i> | <i>50-150</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>0.0402</i> | | <i>"</i> | <i>0.0400</i> | | <i>100</i> | <i>50-150</i> | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>0.0396</i> | | <i>"</i> | <i>0.0400</i> | | <i>98.9</i> | <i>50-150</i> | | | |

Summit Scientific

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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFI0062 - EPA 3550A

Blank (BFI0062-BLK1)

Prepared: 09/02/22 Analyzed: 09/03/22

| | | | | | | | | | | | |
|---------------|----|----|-------|--|--|--|--|--|--|--|--|
| C10-C28 (DRO) | ND | 50 | mg/kg | | | | | | | | |
| C28-C36 (ORO) | ND | 50 | " | | | | | | | | |

LCS (BFI0062-BS1)

Prepared: 09/02/22 Analyzed: 09/03/22

| | | | | | | | | | | | |
|---------------|-----|----|-------|-----|--|-----|--------|--|--|--|--|
| C10-C28 (DRO) | 617 | 50 | mg/kg | 500 | | 123 | 70-130 | | | | |
|---------------|-----|----|-------|-----|--|-----|--------|--|--|--|--|

Matrix Spike (BFI0062-MS1)

Source: 2209047-11

Prepared: 09/02/22 Analyzed: 09/03/22

| | | | | | | | | | | | |
|---------------|-----|----|-------|-----|----|-----|--------|--|--|--|--|
| C10-C28 (DRO) | 531 | 50 | mg/kg | 500 | ND | 106 | 70-130 | | | | |
|---------------|-----|----|-------|-----|----|-----|--------|--|--|--|--|

Matrix Spike Dup (BFI0062-MSD1)

Source: 2209047-11

Prepared: 09/02/22 Analyzed: 09/03/22

| | | | | | | | | | | | |
|---------------|-----|----|-------|-----|----|-----|--------|------|----|--|--|
| C10-C28 (DRO) | 538 | 50 | mg/kg | 500 | ND | 108 | 70-130 | 1.30 | 20 | | |
|---------------|-----|----|-------|-----|----|-----|--------|------|----|--|--|

Summit Scientific

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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFI0084 - EPA 5030 Soil MS

Blank (BFI0084-BLK1)

Prepared & Analyzed: 09/06/22

| | | | | | | | | | | |
|---|---------------|---------|----------|---------------|-------------|---------------|--|--|--|--|
| Acenaphthene | ND | 0.00500 | mg/kg | | | | | | | |
| Anthracene | ND | 0.00500 | " | | | | | | | |
| Benzo (a) anthracene | ND | 0.00500 | " | | | | | | | |
| Benzo (a) pyrene | ND | 0.00500 | " | | | | | | | |
| Benzo (b) fluoranthene | ND | 0.00500 | " | | | | | | | |
| Benzo (k) fluoranthene | ND | 0.00500 | " | | | | | | | |
| Chrysene | ND | 0.00500 | " | | | | | | | |
| Dibenz (a,h) anthracene | ND | 0.00500 | " | | | | | | | |
| Fluoranthene | ND | 0.00500 | " | | | | | | | |
| Fluorene | ND | 0.00500 | " | | | | | | | |
| Indeno (1,2,3-cd) pyrene | ND | 0.00500 | " | | | | | | | |
| Pyrene | ND | 0.00500 | " | | | | | | | |
| 1-Methylnaphthalene | ND | 0.00500 | " | | | | | | | |
| 2-Methylnaphthalene | ND | 0.00500 | " | | | | | | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0360</i> | | <i>"</i> | <i>0.0333</i> | <i>108</i> | <i>40-150</i> | | | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0276</i> | | <i>"</i> | <i>0.0333</i> | <i>82.8</i> | <i>40-150</i> | | | | |

LCS (BFI0084-BS1)

Prepared & Analyzed: 09/06/22

| | | | | | | | | | | |
|---|---------------|---------|----------|---------------|------------|---------------|--|--|--|--|
| Acenaphthene | 0.0354 | 0.00500 | mg/kg | 0.0333 | 106 | 31-137 | | | | |
| Anthracene | 0.0337 | 0.00500 | " | 0.0333 | 101 | 30-120 | | | | |
| Benzo (a) anthracene | 0.0268 | 0.00500 | " | 0.0333 | 80.4 | 30-120 | | | | |
| Benzo (a) pyrene | 0.0273 | 0.00500 | " | 0.0333 | 81.8 | 30-120 | | | | |
| Benzo (b) fluoranthene | 0.0290 | 0.00500 | " | 0.0333 | 87.0 | 30-120 | | | | |
| Benzo (k) fluoranthene | 0.0400 | 0.00500 | " | 0.0333 | 120 | 30-120 | | | | |
| Chrysene | 0.0322 | 0.00500 | " | 0.0333 | 96.6 | 30-120 | | | | |
| Dibenz (a,h) anthracene | 0.0240 | 0.00500 | " | 0.0333 | 72.1 | 30-120 | | | | |
| Fluoranthene | 0.0348 | 0.00500 | " | 0.0333 | 105 | 30-120 | | | | |
| Fluorene | 0.0336 | 0.00500 | " | 0.0333 | 101 | 30-120 | | | | |
| Indeno (1,2,3-cd) pyrene | 0.0230 | 0.00500 | " | 0.0333 | 69.0 | 30-120 | | | | |
| Pyrene | 0.0314 | 0.00500 | " | 0.0333 | 94.2 | 35-142 | | | | |
| 1-Methylnaphthalene | 0.0345 | 0.00500 | " | 0.0333 | 104 | 35-142 | | | | |
| 2-Methylnaphthalene | 0.0362 | 0.00500 | " | 0.0333 | 108 | 35-142 | | | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0358</i> | | <i>"</i> | <i>0.0333</i> | <i>107</i> | <i>40-150</i> | | | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0341</i> | | <i>"</i> | <i>0.0333</i> | <i>102</i> | <i>40-150</i> | | | | |

Summit Scientific

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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFI0084 - EPA 5030 Soil MS

| Matrix Spike (BFI0084-MS1) | Source: 2209047-11 | | | Prepared & Analyzed: 09/06/22 | | | | | | | |
|---|---------------------------|---------|----------|--|----|-------------|---------------|--|--|--|--|
| Acenaphthene | 0.0169 | 0.00500 | mg/kg | 0.0333 | ND | 50.8 | 31-137 | | | | |
| Anthracene | 0.0187 | 0.00500 | " | 0.0333 | ND | 56.0 | 30-120 | | | | |
| Benzo (a) anthracene | 0.0177 | 0.00500 | " | 0.0333 | ND | 53.1 | 30-120 | | | | |
| Benzo (a) pyrene | 0.0177 | 0.00500 | " | 0.0333 | ND | 53.2 | 30-120 | | | | |
| Benzo (b) fluoranthene | 0.0193 | 0.00500 | " | 0.0333 | ND | 57.9 | 30-120 | | | | |
| Benzo (k) fluoranthene | 0.0225 | 0.00500 | " | 0.0333 | ND | 67.6 | 30-120 | | | | |
| Chrysene | 0.0182 | 0.00500 | " | 0.0333 | ND | 54.6 | 30-120 | | | | |
| Dibenz (a,h) anthracene | 0.0165 | 0.00500 | " | 0.0333 | ND | 49.4 | 30-120 | | | | |
| Fluoranthene | 0.0189 | 0.00500 | " | 0.0333 | ND | 56.7 | 30-120 | | | | |
| Fluorene | 0.0189 | 0.00500 | " | 0.0333 | ND | 56.6 | 30-120 | | | | |
| Indeno (1,2,3-cd) pyrene | 0.0157 | 0.00500 | " | 0.0333 | ND | 47.1 | 30-120 | | | | |
| Pyrene | 0.0186 | 0.00500 | " | 0.0333 | ND | 55.9 | 35-142 | | | | |
| 1-Methylnaphthalene | 0.0185 | 0.00500 | " | 0.0333 | ND | 55.4 | 15-130 | | | | |
| 2-Methylnaphthalene | 0.0169 | 0.00500 | " | 0.0333 | ND | 50.8 | 15-130 | | | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0181</i> | | <i>"</i> | <i>0.0333</i> | | <i>54.4</i> | <i>40-150</i> | | | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0178</i> | | <i>"</i> | <i>0.0333</i> | | <i>53.4</i> | <i>40-150</i> | | | | |

| Matrix Spike Dup (BFI0084-MSD1) | Source: 2209047-11 | | | Prepared & Analyzed: 09/06/22 | | | | | | | |
|---|---------------------------|---------|----------|--|----|-------------|---------------|------|----|--|--|
| Acenaphthene | 0.0164 | 0.00500 | mg/kg | 0.0333 | ND | 49.3 | 31-137 | 3.06 | 30 | | |
| Anthracene | 0.0184 | 0.00500 | " | 0.0333 | ND | 55.1 | 30-120 | 1.52 | 30 | | |
| Benzo (a) anthracene | 0.0164 | 0.00500 | " | 0.0333 | ND | 49.3 | 30-120 | 7.39 | 30 | | |
| Benzo (a) pyrene | 0.0167 | 0.00500 | " | 0.0333 | ND | 50.1 | 30-120 | 5.99 | 30 | | |
| Benzo (b) fluoranthene | 0.0178 | 0.00500 | " | 0.0333 | ND | 53.4 | 30-120 | 8.18 | 30 | | |
| Benzo (k) fluoranthene | 0.0219 | 0.00500 | " | 0.0333 | ND | 65.8 | 30-120 | 2.67 | 30 | | |
| Chrysene | 0.0184 | 0.00500 | " | 0.0333 | ND | 55.1 | 30-120 | 1.01 | 30 | | |
| Dibenz (a,h) anthracene | 0.0154 | 0.00500 | " | 0.0333 | ND | 46.1 | 30-120 | 6.89 | 30 | | |
| Fluoranthene | 0.0194 | 0.00500 | " | 0.0333 | ND | 58.1 | 30-120 | 2.38 | 30 | | |
| Fluorene | 0.0171 | 0.00500 | " | 0.0333 | ND | 51.4 | 30-120 | 9.59 | 30 | | |
| Indeno (1,2,3-cd) pyrene | 0.0145 | 0.00500 | " | 0.0333 | ND | 43.4 | 30-120 | 8.15 | 30 | | |
| Pyrene | 0.0191 | 0.00500 | " | 0.0333 | ND | 57.4 | 35-142 | 2.80 | 30 | | |
| 1-Methylnaphthalene | 0.0174 | 0.00500 | " | 0.0333 | ND | 52.1 | 15-130 | 6.16 | 50 | | |
| 2-Methylnaphthalene | 0.0160 | 0.00500 | " | 0.0333 | ND | 48.0 | 15-130 | 5.56 | 50 | | |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0162</i> | | <i>"</i> | <i>0.0333</i> | | <i>48.5</i> | <i>40-150</i> | | | | |
| <i>Surrogate: Fluoranthene-d10</i> | <i>0.0177</i> | | <i>"</i> | <i>0.0333</i> | | <i>53.2</i> | <i>40-150</i> | | | | |

Summit Scientific

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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BFI0113 - EPA 3050B

Blank (BFI0113-BLK1)

Prepared: 09/06/22 Analyzed: 09/07/22

Boron ND 0.0100 mg/L

LCS (BFI0113-BS1)

Prepared: 09/06/22 Analyzed: 09/07/22

Boron 5.35 0.0100 mg/L 5.00 107 80-120

Duplicate (BFI0113-DUP1)

Source: 2208347-01

Prepared: 09/06/22 Analyzed: 09/07/22

Boron 0.00764 0.0100 mg/L 0.00719 5.96 20

Matrix Spike (BFI0113-MS1)

Source: 2208347-01

Prepared: 09/06/22 Analyzed: 09/07/22

Boron 5.27 0.0100 mg/L 5.00 0.00719 105 75-125

Matrix Spike Dup (BFI0113-MSD1)

Source: 2208347-01

Prepared: 09/06/22 Analyzed: 09/07/22

Boron 5.27 0.0100 mg/L 5.00 0.00719 105 75-125 0.0959 25

Summit Scientific

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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFI0089 - EPA 3050B

Blank (BFI0089-BLK1)

Prepared & Analyzed: 09/06/22

| | | | | | | | | | |
|----------|----|--------|-----------|--|--|--|--|--|--|
| Arsenic | ND | 0.200 | mg/kg wet | | | | | | |
| Barium | ND | 0.400 | " | | | | | | |
| Cadmium | ND | 0.200 | " | | | | | | |
| Copper | ND | 0.400 | " | | | | | | |
| Lead | ND | 0.200 | " | | | | | | |
| Nickel | ND | 0.400 | " | | | | | | |
| Selenium | ND | 0.260 | " | | | | | | |
| Silver | ND | 0.0200 | " | | | | | | |
| Zinc | ND | 0.400 | " | | | | | | |

LCS (BFI0089-BS1)

Prepared & Analyzed: 09/06/22

| | | | | | | |
|----------|------|--------|-----------|------|------|--------|
| Arsenic | 41.6 | 0.200 | mg/kg wet | 40.0 | 104 | 80-120 |
| Barium | 39.4 | 0.400 | " | 40.0 | 98.6 | 80-120 |
| Cadmium | 1.99 | 0.200 | " | 2.00 | 99.4 | 80-120 |
| Copper | 40.1 | 0.400 | " | 40.0 | 100 | 80-120 |
| Lead | 17.9 | 0.200 | " | 20.0 | 89.5 | 80-120 |
| Nickel | 39.7 | 0.400 | " | 40.0 | 99.3 | 80-120 |
| Selenium | 4.08 | 0.260 | " | 4.00 | 102 | 80-120 |
| Silver | 1.92 | 0.0200 | " | 2.00 | 96.2 | 80-120 |
| Zinc | 42.4 | 0.400 | " | 40.0 | 106 | 80-120 |

Duplicate (BFI0089-DUP1)

Source: 2208437-01

Prepared & Analyzed: 09/06/22

| | | | | | | |
|----------|---------|--------|-----------|---------|------|----|
| Arsenic | 2.59 | 0.213 | mg/kg dry | 2.37 | 8.99 | 20 |
| Barium | 49.7 | 0.426 | " | 46.8 | 6.01 | 20 |
| Cadmium | 0.0782 | 0.213 | " | 0.0731 | 6.72 | 20 |
| Copper | 2.74 | 0.426 | " | 2.50 | 8.90 | 20 |
| Lead | 3.56 | 0.213 | " | 3.33 | 6.85 | 20 |
| Nickel | 2.62 | 0.426 | " | 2.41 | 8.42 | 20 |
| Selenium | 0.417 | 0.277 | " | 0.364 | 13.6 | 20 |
| Silver | 0.00826 | 0.0213 | " | 0.00778 | 5.93 | 20 |
| Zinc | 10.0 | 0.426 | " | 9.57 | 4.79 | 20 |

Summit Scientific

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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BFI0089 - EPA 3050B

| Matrix Spike (BFI0089-MS1) | Source: 2208437-01 | | | Prepared & Analyzed: 09/06/22 | | | | | | | | |
|-----------------------------------|---------------------------|--------|-----------|--|---------|------|--------|--|--|--|--|-------|
| Arsenic | 39.7 | 0.213 | mg/kg dry | 42.6 | 2.37 | 87.8 | 75-125 | | | | | |
| Barium | 83.9 | 0.426 | " | 42.6 | 46.8 | 87.1 | 75-125 | | | | | |
| Cadmium | 1.90 | 0.213 | " | 2.13 | 0.0731 | 85.7 | 75-125 | | | | | |
| Copper | 38.6 | 0.426 | " | 42.6 | 2.50 | 84.8 | 75-125 | | | | | |
| Lead | 18.8 | 0.213 | " | 21.3 | 3.33 | 72.4 | 75-125 | | | | | QM-05 |
| Nickel | 38.9 | 0.426 | " | 42.6 | 2.41 | 85.6 | 75-125 | | | | | |
| Selenium | 3.60 | 0.277 | " | 4.26 | 0.364 | 76.0 | 75-125 | | | | | |
| Silver | 1.75 | 0.0213 | " | 2.13 | 0.00778 | 81.7 | 75-125 | | | | | |
| Zinc | 47.1 | 0.426 | " | 42.6 | 9.57 | 88.1 | 75-125 | | | | | |

| Matrix Spike Dup (BFI0089-MSD1) | Source: 2208437-01 | | | Prepared & Analyzed: 09/06/22 | | | | | | | | |
|--|---------------------------|--------|-----------|--|---------|------|--------|-------|----|--|--|-------|
| Arsenic | 39.4 | 0.213 | mg/kg dry | 42.6 | 2.37 | 87.0 | 75-125 | 0.851 | 25 | | | |
| Barium | 83.5 | 0.426 | " | 42.6 | 46.8 | 86.0 | 75-125 | 0.519 | 25 | | | |
| Cadmium | 1.89 | 0.213 | " | 2.13 | 0.0731 | 85.3 | 75-125 | 0.381 | 25 | | | |
| Copper | 38.2 | 0.426 | " | 42.6 | 2.50 | 83.7 | 75-125 | 1.18 | 25 | | | |
| Lead | 18.8 | 0.213 | " | 21.3 | 3.33 | 72.8 | 75-125 | 0.367 | 25 | | | QM-05 |
| Nickel | 38.3 | 0.426 | " | 42.6 | 2.41 | 84.2 | 75-125 | 1.58 | 25 | | | |
| Selenium | 3.59 | 0.277 | " | 4.26 | 0.364 | 75.7 | 75-125 | 0.340 | 25 | | | |
| Silver | 1.74 | 0.0213 | " | 2.13 | 0.00778 | 81.2 | 75-125 | 0.633 | 25 | | | |
| Zinc | 46.2 | 0.426 | " | 42.6 | 9.57 | 86.0 | 75-125 | 1.93 | 25 | | | |

Summit Scientific

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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFI0087 - 3060A Mod

Blank (BFI0087-BLK1)

Prepared: 09/06/22 Analyzed: 09/07/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFI0087-BS1)

Prepared: 09/06/22 Analyzed: 09/07/22

Chromium, Hexavalent 25.6 0.30 mg/kg wet 25.0 102 80-120

Duplicate (BFI0087-DUP1)

Source: 2209030-02

Prepared: 09/06/22 Analyzed: 09/07/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFI0087-MS1)

Source: 2209030-02

Prepared: 09/06/22 Analyzed: 09/07/22

Chromium, Hexavalent 27.1 0.30 mg/kg dry 26.4 ND 103 75-125

Matrix Spike Dup (BFI0087-MSD1)

Source: 2209030-02

Prepared: 09/06/22 Analyzed: 09/07/22

Chromium, Hexavalent 25.9 0.30 mg/kg dry 26.4 ND 98.2 75-125 4.58 20

Summit Scientific

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.



K.P. Kauffman
 1675 Broadway
 Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
 Project Manager: Levi Kirk

Reported:
 09/09/22 12:31

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control
Summit Scientific

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

Batch BFI0146 - General Preparation

Blank (BFI0146-BLK1)

Prepared: 09/07/22 Analyzed: 09/09/22

| | | | | | | | | | | |
|-----------|----|--------|----------|--|--|--|--|--|--|--|
| Calcium | ND | 0.0500 | mg/L wet | | | | | | | |
| Magnesium | ND | 0.0500 | " | | | | | | | |
| Sodium | ND | 0.0500 | " | | | | | | | |

LCS (BFI0146-BS1)

Prepared: 09/07/22 Analyzed: 09/09/22

| | | | | | | | | | | |
|-----------|------|--------|----------|------|--|-----|--------|--|--|--|
| Calcium | 5.47 | 0.0500 | mg/L wet | 5.00 | | 109 | 70-130 | | | |
| Magnesium | 5.22 | 0.0500 | " | 5.00 | | 104 | 70-130 | | | |
| Sodium | 5.02 | 0.0500 | " | 5.00 | | 100 | 70-130 | | | |

Summit Scientific

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.



K.P. Kauffman
 1675 Broadway
 Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
 Project Manager: Levi Kirk

Reported:
 09/09/22 12:31

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

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

Batch BFI0156 - General Preparation

Duplicate (BFI0156-DUP1)

Source: 2209046-01

Prepared: 09/07/22 Analyzed: 09/08/22

| | | | | | | | | | | |
|----------|------|--|---|--|------|--|--|------|----|--|
| % Solids | 91.2 | | % | | 89.4 | | | 1.98 | 20 | |
|----------|------|--|---|--|------|--|--|------|----|--|

Summit Scientific

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.



K.P. Kauffman
 1675 Broadway
 Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
 Project Manager: Levi Kirk

Reported:
 09/09/22 12:31

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BFI0178 - General Preparation

Blank (BFI0178-BLK1)

Prepared & Analyzed: 09/08/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFI0178-BS1)

Prepared & Analyzed: 09/08/22

Specific Conductance (EC) 0.146 0.0100 mmhos/cm 0.150 97.1 95-105

Duplicate (BFI0178-DUP1)

Source: 2209026-17

Prepared & Analyzed: 09/08/22

Specific Conductance (EC) 1.06 0.0100 mmhos/cm 1.08 1.31 20

Summit Scientific

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.



K.P. Kauffman
 1675 Broadway
 Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
 Project Manager: Levi Kirk

Reported:
 09/09/22 12:31

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BFI0179 - General Preparation

LCS (BFI0179-BS1)

Prepared & Analyzed: 09/08/22

| | | | | | |
|----|------|----------|------|------|--------|
| pH | 9.13 | pH Units | 9.18 | 99.5 | 95-105 |
|----|------|----------|------|------|--------|

Duplicate (BFI0179-DUP1)

Source: 2209026-16

Prepared & Analyzed: 09/08/22

| | | | | | |
|----|------|----------|------|-------|----|
| pH | 7.65 | pH Units | 7.62 | 0.393 | 20 |
|----|------|----------|------|-------|----|

Summit Scientific

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.



K.P. Kauffman
1675 Broadway
Denver CO, 80202

Project: Facility #4 AE2

Project Number: [none]
Project Manager: Levi Kirk

Reported:
09/09/22 12:31

Notes and Definitions

- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference