

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 12, 2022

Chris Roy

WSP

4600 West 60th Avenue

Arvada, CO 80003

RE: Mustang V41-34-33 XRLNB

Work Order #2112345

Enclosed are the results of analyses for samples received by Summit Scientific on 12/17/21 10:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Muri Premier", is displayed on a light purple rectangular background.

Muri Premier For Paul Shrewsbury  
President



WSP  
4600 West 60th Avenue  
Arvada CO, 80003

Project: Mustang V41-34-33 XRLNB

Project Number: [none]  
Project Manager: Chris Roy

**Reported:**  
01/12/22 15:12

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| BG02      | 2112345-01    | Soil   | 12/15/21 11:35 | 12/17/21 10:25 |

Summit Scientific

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# Summit Scientific

S<sub>2</sub>

2112345

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

Page 1 of 1

Client: WSP USA

Project Manager: Chris Roy @wsp.com

Address: 4600 W 60th Ave

E-Mail:

City/State/Zip: Arvada CO 80003

Phone:

Project Name: Mustang V41-34-33 XRLND

Sampler Name: Drew Bullen

Project Number: Email for PO

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative |                  |      |       | Matrix |      |                |       | Analysis Requested |    |    |     |       |  |  |  | Special Instructions |
|----|--------------------|--------------|--------------|-----------------|--------------|------------------|------|-------|--------|------|----------------|-------|--------------------|----|----|-----|-------|--|--|--|----------------------|
|    |                    |              |              |                 | HCl          | HNO <sub>3</sub> | None | Other | Water  | Soil | Air-Canister # | Other | Metals             | pH | EC | SAR | Booth |  |  |  |                      |
| 1  | B902               | 12/15/21     | 11:35        |                 |              |                  | X    |       |        | X    |                |       |                    |    |    |     |       |  |  |  | HOLD                 |
| 2  |                    |              |              |                 |              |                  |      |       |        |      |                |       |                    |    |    |     |       |  |  |  |                      |
| 3  |                    |              |              |                 |              |                  |      |       |        |      |                |       |                    |    |    |     |       |  |  |  |                      |
| 4  |                    |              |              |                 |              |                  |      |       |        |      |                |       |                    |    |    |     |       |  |  |  |                      |
| 5  |                    |              |              |                 |              |                  |      |       |        |      |                |       |                    |    |    |     |       |  |  |  |                      |
| 6  |                    |              |              |                 |              |                  |      |       |        |      |                |       |                    |    |    |     |       |  |  |  |                      |
| 7  |                    |              |              |                 |              |                  |      |       |        |      |                |       |                    |    |    |     |       |  |  |  |                      |
| 8  |                    |              |              |                 |              |                  |      |       |        |      |                |       |                    |    |    |     |       |  |  |  |                      |
| 9  |                    |              |              |                 |              |                  |      |       |        |      |                |       |                    |    |    |     |       |  |  |  |                      |
| 10 |                    |              |              |                 |              |                  |      |       |        |      |                |       |                    |    |    |     |       |  |  |  |                      |

|                  |                |              |            |                                      |        |
|------------------|----------------|--------------|------------|--------------------------------------|--------|
| Relinquished by: | Date/Time:     | Received by: | Date/Time: | Turn Around Time (Check)             | Notes: |
| Drew Bullen      | 12/17/21 10:25 |              |            | Same Day _____ 72 hours _____        |        |
| Relinquished by: | Date/Time:     | Received by: | Date/Time: | 24 hours _____ Standard <u>X</u>     |        |
|                  |                |              |            | 48 hours _____                       |        |
| Relinquished by: | Date/Time:     | Received by: | Date/Time: | Sample Integrity:                    |        |
|                  |                |              |            | Temperature Upon Receipt: <u>0.8</u> |        |
|                  |                |              |            | Samples Intact: <u>Yes</u> No        |        |

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2112345Client: WSP Client Project ID: Mustang V41-34-33 XRLNBShipped Via: ☒ H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: \_\_\_\_\_Matrix (check all that apply): ☒ Air ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_  
(Describe)

|           |            |
|-----------|------------|
| Temp (°C) | <u>0.8</u> |
|-----------|------------|

Thermometer ID: G86A9201901378

|  | Yes                                 | No                       | N/A                                 | Comments (if any) |
|--|-------------------------------------|--------------------------|-------------------------------------|-------------------|
| If samples require cooling, was the temperature at 4°C +/- 2°C <sup>(1)</sup> ?<br>NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <u>On ice.</u>    |
| Were all samples received intact <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |                   |
| Was adequate sample volume provided <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |                   |
| If custody seals are present, are they intact <sup>(1)</sup> ?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |                   |
| Are samples with holding times due within 48 hours sample due within 48 hours present?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |                   |
| Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |                   |
| Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |                   |
| Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |                   |
| Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |                   |
| For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |                   |
| Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ?<br>Note the type of preservative in the Comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc. | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |                   |
| If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ?<br>Record the pH in Comments.   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |                   |
| If dissolved metals are requested, were samples field filtered?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |                   |

Additional Comments (if any):

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.JB  
Custodian Printed Name or Initials12/17/21  
Date/Time



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Arvada CO, 80003

Project: Mustang V41-34-33 XRLNB

Project Number: [none]  
Project Manager: Chris Roy

**Reported:**  
01/12/22 15:12

**BG02**  
**2112345-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **12/15/21 11:35**

| Analyte | Result      | Reporting |  | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|-------------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
|         |             | Limit     |  |           |          |         |          |          |           |       |
| Arsenic | <b>1.99</b> | 0.200     |  | mg/kg dry | 1        | BFA0157 | 01/11/22 | 01/12/22 | EPA 6020B |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **12/15/21 11:35**

| Analyte  | Result      | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|-------------|-----------|--|-------|----------|---------|----------|----------|-------------|-------|
|          |             | Limit     |  |       |          |         |          |          |             |       |
| % Solids | <b>99.0</b> |           |  | %     | 1        | BFA0152 | 01/11/22 | 01/11/22 | Calculation |       |

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### Total Metals by EPA 6020B - Quality Control

#### Summit Scientific

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

#### Batch BFA0157 - EPA 3050B

##### Blank (BFA0157-BLK1)

Prepared: 01/11/22 Analyzed: 01/12/22

Arsenic ND 0.200 mg/kg wet

##### LCS (BFA0157-BS1)

Prepared: 01/11/22 Analyzed: 01/12/22

Arsenic 38.6 0.200 mg/kg wet 40.0 96.6 80-120

##### Duplicate (BFA0157-DUP1)

Source: 2112343-01

Prepared: 01/11/22 Analyzed: 01/12/22

Arsenic 1.85 0.200 mg/kg dry 1.85 0.488 20

##### Matrix Spike (BFA0157-MS1)

Source: 2112343-01

Prepared: 01/11/22 Analyzed: 01/12/22

Arsenic 40.3 0.200 mg/kg dry 41.3 1.85 93.0 75-125

##### Matrix Spike Dup (BFA0157-MSD1)

Source: 2112343-01

Prepared: 01/11/22 Analyzed: 01/12/22

Arsenic 40.8 0.200 mg/kg dry 41.3 1.85 94.4 75-125 1.37 25

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Project Number: [none]  
Project Manager: Chris Roy

**Reported:**  
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**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**

**Summit Scientific**

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

**Batch BFA0152 - General Preparation**

**Duplicate (BFA0152-DUP1)**

**Source: 2112312-03**

**Prepared & Analyzed: 01/11/22**

|          |      |   |      |       |    |
|----------|------|---|------|-------|----|
| % Solids | 93.8 | % | 93.7 | 0.172 | 20 |
|----------|------|---|------|-------|----|

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Project: Mustang V41-34-33 XRLNB

Project Number: [none]  
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### Notes and Definitions

|     |  |
|-----|--|
| 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                          |