

Summit Scientific

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 that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer 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

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S₂

2112345

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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	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Metals	PH	EC	SAR	Both		
1	B902	12/15/21	11:35				X			X									HOLD
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Relinquished by: <u>Drew Bullen</u>	Date/Time: <u>12/17/21 10:25</u>	Received by: <u>[Signature]</u>	Date/Time: <u>12/17/21 10:25</u>	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> Sample Integrity: <u>0.8</u> Temperature Upon Receipt: <u>0.8</u> Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

S₂

Sample Receipt Checklist

S2 Work Order # 2112345

Client: WSP Client Project ID: Mustang V41-34-33 XRLNB

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

Matrix (check all that apply): Air Soil/Solid Water Other: _____
(Describe)

Temp (°C) 0.8

Thermometer ID: G86A9201901378

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? 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 ⁽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"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<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 ⁽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 w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace 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 (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? 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):

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

JB
Custodian Printed Name or Initials

12/17/21
Date/Time



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BG02
2112345-01 (Soil)

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Total Metals by EPA 6020B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.99	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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	99.0		%	1	BFA0152	01/11/22	01/11/22	Calculation	

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Total Metals by EPA 6020B - Quality Control

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

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

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

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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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