

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 07, 2021

Jeremy Pike

WSP

4600 West 60th Avenue

Arvada, CO 80003

RE: AEF 4-62-28

Work Order #2103486

Enclosed are the results of analyses for samples received by Summit Scientific on 03/31/21 16:36. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Muri Premier". The signature is written in a cursive, flowing style. The first name "Muri" is written with a large, stylized 'M' and the last name "Premier" follows in a similar cursive script. The signature is set against a light purple rectangular background.

Muri Premier For Paul Shrewsbury
President



WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: AEF 4-62-28

Project Number: [none]
Project Manager: Jeremy Pike

Reported:
04/07/21 10:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS07@18"	2103486-01	Soil	03/29/21 11:13	03/31/21 16:36

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.

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S₂

2103486

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

Page 1 of 1

Client: WSP USA

Project Manager: Jeremy Pike

Address: 4600 W 60TH AVE

E-Mail: Jeremy.pike@wsp.com

City/State/Zip: Arvada CO 80003

Rob. Keibel@wsp.com

Phone: 303 433 9788

Project Name: AEF 4-62-28

Sampler Name: Drew Bullinger

Project Number: TE 027312042

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	T.P.H	C6-36							
1	SS07@18"	3/29/21	11:13	1			X			X				X							
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time	(Check)	Notes:
Drew Bullinger	3/31/21 16:36			Same Day	72 hours	
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours	Standard	
			3-31-21 1636	48 hours	X	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:		
				Temperature Upon Receipt:	6.9°	
				Samples Intact:	Yes	No

Sample Receipt Checklist

S2 Work Order 2103486

Client: WSP Client Project ID: AEF 4-62-28

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

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

Temp (°C) 6.9°

Thermometer ID: 61857155-K

	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 provided that there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<i>on ice</i>
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, ect	<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.

AT
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

3-31-21
Date/Time



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Project: AEF 4-62-28

Project Number: [none]
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04/07/21 10:14

SS07@18"
2103486-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/21 11:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Hydrocarbons	ND	0.50	mg/kg	1	BED0050	04/05/21	04/06/21	EPA 8260B	

Date Sampled: **03/29/21 11:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/21 11:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	87	50	mg/kg	1	BED0030	04/02/21	04/04/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/29/21 11:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		105 %	30-150		"	"	"	"	

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Project: AEF 4-62-28

Project Number: [none]
Project Manager: Jeremy Pike

Reported:
04/07/21 10:14

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BED0050 - EPA 5030 Soil MS

Blank (BED0050-BLK1)

Prepared: 04/05/21 Analyzed: 04/06/21

Gasoline Range Hydrocarbons	ND	0.50	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.0325		"	0.0400		81.2	23-173			
Surrogate: Toluene-d8	0.0428		"	0.0400		107	20-170			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	21-167			

LCS (BED0050-BS1)

Prepared: 04/05/21 Analyzed: 04/06/21

Surrogate: 1,2-Dichloroethane-d4	0.0247		mg/kg	0.0400		61.7	23-173			
Surrogate: Toluene-d8	0.0416		"	0.0400		104	20-170			
Surrogate: 4-Bromofluorobenzene	0.0387		"	0.0400		96.7	21-167			

Matrix Spike (BED0050-MS1)

Source: 2103113-05

Prepared: 04/05/21 Analyzed: 04/06/21

Surrogate: 1,2-Dichloroethane-d4	0.0309		mg/kg	0.0400		77.3	23-173			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		100	21-167			

Matrix Spike Dup (BED0050-MSD1)

Source: 2103113-05

Prepared: 04/05/21 Analyzed: 04/06/21

Surrogate: 1,2-Dichloroethane-d4	0.0291		mg/kg	0.0400		72.7	23-173			
Surrogate: Toluene-d8	0.0386		"	0.0400		96.5	20-170			
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0400		95.0	21-167			

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Reported:
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Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BED0030 - EPA 3550A

Blank (BED0030-BLK1)

Prepared: 04/02/21 Analyzed: 04/03/21

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

LCS (BED0030-BS1)

Prepared: 04/02/21 Analyzed: 04/03/21

C10-C28 (DRO)	428	50	mg/kg	500	85.6	70-130
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Matrix Spike (BED0030-MS1)

Source: 2103484-01

Prepared: 04/02/21 Analyzed: 04/03/21

C10-C28 (DRO)	500	50	mg/kg	500	14.7	97.1	70-130
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Matrix Spike Dup (BED0030-MSD1)

Source: 2103484-01

Prepared: 04/02/21 Analyzed: 04/03/21

C10-C28 (DRO)	531	50	mg/kg	500	14.7	103	70-130	6.02	20
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Reported:
04/07/21 10:14

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