

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 09, 2021

Max Knop  
K.P. Kauffman  
1675 Broadway  
Denver, CO 80202

RE: Stieber

Work Order #2109012

Enclosed are the results of analyses for samples received by Summit Scientific on 09/01/21 13:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Muri Premer For Paul Shrewsbury  
President



K.P. Kauffman  
1675 Broadway  
Denver CO, 80202

Project: Stieber  
Project Number: [none]  
Project Manager: Max Knop

**Reported:**  
09/09/21 12:47

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
318858-6W	2109012-01	Water	09/01/21 10:10	09/01/21 13:00

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.*

2109012

# Summit Scientific

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 1

Client: K.P. Kauffman Company, Inc.

Project Manager: Max Knop

Address: 1675 Broadway, Suite 2800

E-Mail: MKnop@kpk.com

City/State/Zip: Denver, CO 80202-4628

Phone: 303-825-4822

Project Name: Steiber

Sampler Name: Mike Hattel (mhattel@msn.com)

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions		
					HCl	HNO3	None	Other <u>ACE</u>	Water	Soil	Air-Canister #	Other	<del>MA</del>	<u>1-511-2011</u>						
1	<u>318858-6w</u>	<u>9/1/21</u>	<u>1010</u>	<u>3</u>				<u>X</u>	<u>X</u>											
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Relinquished by: <u>Mhattel</u> Date/Time: <u>9/1/21</u>	Received by: <u>AK</u> Date/Time: <u>9-1-21 13:00</u>	<b>Turn Around Time</b> (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"/> <b>Sample Integrity:</b> Temperature Upon Receipt: <u>3.4</u> Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	<b>Notes: PDF COPY TO MIKE HATTEL AT mhattel@msn.com</b>
Relinquished by: _____ Date/Time: _____	Received by: _____ Date/Time: _____		
Relinquished by: _____ Date/Time: _____	Received by: _____ Date/Time: _____		

**Sample Receipt Checklist**

S2 Work Order 2109012

Client: KPKAUFFMAN Client Project ID STEIBER

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

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

Temp (°C)	<u>3.4</u>
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Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C <sup>(1)</sup> ? 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"/>	
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 checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation <b>(excluding cooling)</b> <sup>(1)</sup> ? 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 <sup>(1)</sup> ? 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.

Murip.  
Custodian Printed Name or Initials

DA  
Signature of Custodian

9-1-21  
Date/Time



K.P. Kauffman  
1675 Broadway  
Denver CO, 80202

Project: Stieber  
Project Number: [none]  
Project Manager: Max Knop

**Reported:**  
09/09/21 12:47

**318858-6W**  
**2109012-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/01/21 10:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BEI0052	09/02/21	09/05/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/01/21 10:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		97.1 %		23-173	"	"	"	"	
Surrogate: Toluene-d8		109 %		20-170	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.1 %		21-167	"	"	"	"	

Summit Scientific

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1675 Broadway  
Denver CO, 80202

Project: Stieber

Project Number: [none]  
Project Manager: Max Knop

**Reported:**  
09/09/21 12:47

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

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

#### Batch BEI0052 - EPA 5030 Water MS

##### Blank (BEI0052-BLK1)

Prepared: 09/02/21 Analyzed: 09/04/21

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	13.0		"	13.3		97.9	23-173			
<i>Surrogate: Toluene-d8</i>	14.0		"	13.3		105	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.1		"	13.3		98.3	21-167			

##### LCS (BEI0052-BS1)

Prepared: 09/02/21 Analyzed: 09/04/21

Benzene	41.0	1.0	ug/l	33.3		123	51-132			
Toluene	36.5	1.0	"	33.3		110	51-138			
Ethylbenzene	36.5	1.0	"	33.3		109	58-146			
m,p-Xylene	70.2	2.0	"	66.7		105	57-144			
o-Xylene	34.8	1.0	"	33.3		104	53-146			
Naphthalene	39.4	1.0	"	33.3		118	70-130			
1,2,4-Trimethylbenzene	33.2	1.0	"	33.3		99.6	70-130			
1,3,5-Trimethylbenzene	33.7	1.0	"	33.3		101	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	14.1		"	13.3		106	23-173			
<i>Surrogate: Toluene-d8</i>	12.5		"	13.3		93.6	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.4		"	13.3		101	21-167			

##### Matrix Spike (BEI0052-MS1)

Source: 2108437-03

Prepared: 09/02/21 Analyzed: 09/04/21

Benzene	41.6	1.0	ug/l	33.3	ND	125	34-141			
Toluene	44.4	1.0	"	33.3	ND	133	27-151			
Ethylbenzene	38.1	1.0	"	33.3	ND	114	29-160			
m,p-Xylene	72.9	2.0	"	66.7	ND	109	20-166			
o-Xylene	36.2	1.0	"	33.3	ND	108	33-159			
Naphthalene	38.4	1.0	"	33.3	ND	115	70-130			
1,2,4-Trimethylbenzene	34.1	1.0	"	33.3	ND	102	70-130			
1,3,5-Trimethylbenzene	35.0	1.0	"	33.3	ND	105	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	13.8		"	13.3		104	23-173			
<i>Surrogate: Toluene-d8</i>	14.8		"	13.3		111	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.1		"	13.3		98.2	21-167			

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09/09/21 12:47

**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 BEI0052 - EPA 5030 Water MS**

Matrix Spike Dup (BEI0052-MSD1)	Source: 2108437-03			Prepared: 09/02/21		Analyzed: 09/04/21				
Benzene	37.4	1.0	ug/l	33.3	ND	112	34-141	10.7	30	
Toluene	35.7	1.0	"	33.3	ND	107	27-151	21.8	30	
Ethylbenzene	31.7	1.0	"	33.3	ND	95.2	29-160	18.4	30	
m,p-Xylene	60.1	2.0	"	66.7	ND	90.2	20-166	19.2	30	
o-Xylene	30.7	1.0	"	33.3	ND	92.2	33-159	16.2	30	
Naphthalene	38.8	1.0	"	33.3	ND	116	70-130	0.907	30	
1,2,4-Trimethylbenzene	27.2	1.0	"	33.3	ND	81.5	70-130	22.6	30	
1,3,5-Trimethylbenzene	27.5	1.0	"	33.3	ND	82.4	70-130	24.1	30	
Surrogate: 1,2-Dichloroethane-d4	15.5		"	13.3		116	23-173			
Surrogate: Toluene-d8	14.4		"	13.3		108	20-170			
Surrogate: 4-Bromofluorobenzene	12.2		"	13.3		91.7	21-167			

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Project: Stieber  
Project Number: [none]  
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**Reported:**  
09/09/21 12:47

### 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