

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 25, 2022

Jennifer Galles

Marcom LLC

1811 East Mulberry St.

Fort Collins, CO 80524

RE: KPK - Mosler 1A Confirmation Samples

Work Order #2201306

Enclosed are the results of analyses for samples received by Summit Scientific on 01/26/22 14:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink on a light purple background. The signature is written in a cursive style and appears to read "Muri Premier".

Muri Premier For Paul Shrewsbury
President



Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1@5'	2201306-01	Soil	01/26/22 11:40	01/26/22 14:00
BH-2@10'	2201306-02	Soil	01/26/22 12:45	01/26/22 14:00
BH-3@5'	2201306-03	Soil	01/26/22 12:00	01/26/22 14:00
BH-4@5'	2201306-04	Soil	01/26/22 12:25	01/26/22 14:00
SW-1@5'	2201306-05	Soil	01/26/22 11:45	01/26/22 14:00
SW-2@5'	2201306-06	Soil	01/26/22 12:05	01/26/22 14:00
SW-3@5'	2201306-07	Soil	01/26/22 12:20	01/26/22 14:00
SW-4@5'	2201306-08	Soil	01/26/22 12:35	01/26/22 14:00
SW-5@5'	2201306-09	Soil	01/26/22 12:15	01/26/22 14:00
SW-6@5'	2201306-10	Soil	01/26/22 12:10	01/26/22 14:00
SW-7@5'	2201306-11	Soil	01/26/22 12:40	01/26/22 14:00
SW-8@5'	2201306-12	Soil	01/26/22 11:50	01/26/22 14:00
SW-9@5'	2201306-13	Soil	01/26/22 11:55	01/26/22 14:00
SW-10@5'	2201306-14	Soil	01/26/22 12:30	01/26/22 14:00
Background1@1'	2201306-15	Soil	01/26/22 12:47	01/26/22 14:00
Background2@1'	2201306-16	Soil	01/26/22 12:48	01/26/22 14:00
Background3@1'	2201306-17	Soil	01/26/22 12:50	01/26/22 14:00

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S₂

2201306.1

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303-277-9310

Page 1 of 2

Client: Bill to KPK (MarCom LLC)

Project Manager: Jennifer Galles

Address:

E-Mail: PrimaryContractor@marcomllc.net

City/State/Zip:

MOSLER 1-A



Phone:

Project Name: KPK-Moser A-1 Confirmation Samples

Sampler Name: Levi Kirk

Project Number: KPK-Moser A-1 MOSLER 1-A

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	Full Table 915	Table 915 inorganic							
1	BH-1@5'	1-26-22	11:40	3			X			X				X							
2	BH-2@10'		12:45																		
3	BH-3@5'		12:00																		
4	BH-4@5'		12:25																		
5	SW-1@5'		11:45																		
6	SW-2@5'		12:05																		
7	SW-3@5'		12:20																		
8	SW-4@5'		12:35																		
9	SW-6 SW-5@5'		12:15																		
10	SW-6@5'		12:10																		

Relinquished by:  1-26-22 14:00	Date/Time: 1-26-22 14:00	Received by:  12622 1400	Date/Time: 12622 1400	Turn Around Time (Check) Same Day _____ 72 hours _____ 24 hours _____ Standard <input checked="" type="checkbox"/> 48 hours _____	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: 6.9 Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	
Relinquished by:	Date/Time:	Received by:	Date/Time:		

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S₂

2201306.2

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

Page 2 of 2

Client: Bill to KPR (MarCom LLC)

Project Manager: Jennifer Galles

Address:

E-Mail: PrimaryContractor@marcomllc.net

City/State/Zip:

Phone:

Project Name: KPR-Moser A-1 Confirmation Samples

Sampler Name: Levi Kirk

Project Number: KPR-Moser A-1

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	Full Table 915	Table 915 Inorganic							
1	SW-7@5'	1-26-22	12:40	3			X			X				X							
2	SW-8@5'		11:50	1																	
3	SW-9@5'		11:55	1																	
4	SW-10@5'		12:30	1																	
5																					
6	Background 1 @ 1'		12:47	1										X							
7	Background 2 @ 1'		12:48	1																	
8	Background 3 @ 1'		12:50	1																	
9																					
10																					

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time (Check) Same Day _____ 72 hours _____ 24 hours _____ Standard <u>X</u> 48 hours _____ Sample Integrity: Temperature Upon Receipt: <u>6.9</u> Samples Intact: <u>Yes</u> No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

S₂2/2
Sample Receipt Checklist

S2 Work Order# 2201306

Client: KPK-marcom

Client Project ID:

MOSLER 1-A
KPK-Mosler A-1 confirmation sampleShipped 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: 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"/>	ON ICE
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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, H ₂ SO ₄ , NaOH, HNO ₃ , 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.				


Custodian Printed Name or Initials
1-26-22
Date/Time



Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

BH-1@5'
2201306-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/26/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFA0481	01/28/22	01/30/22	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: **01/26/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.5 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/26/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0483	01/28/22	01/28/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/26/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		94.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

BH-1@5'
2201306-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/26/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFA0506	01/31/22	02/01/22	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	0.00786	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0229	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/26/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		61.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		79.6 %	40-150		"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/26/22 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFB0191	02/17/22	02/17/22	EPA 7196A	

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Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

BH-2@10'
2201306-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/26/22 12:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFA0481	01/28/22	01/29/22	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: **01/26/22 12:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		109 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.9 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/26/22 12:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0483	01/28/22	01/28/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/26/22 12:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		96.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

BH-2@10'
2201306-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/26/22 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFA0506	01/31/22	02/01/22	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: **01/26/22 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		56.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		70.0 %	40-150		"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/26/22 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFB0191	02/17/22	02/17/22	EPA 7196A	

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Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

BH-3@5'
2201306-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/26/22 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFA0481	01/28/22	01/29/22	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: **01/26/22 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		110 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/26/22 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0483	01/28/22	01/28/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/26/22 12:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		94.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

BH-3@5'
2201306-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/26/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFA0506	01/31/22	02/01/22	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: **01/26/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		63.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		71.6 %	40-150		"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/26/22 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFB0191	02/17/22	02/17/22	EPA 7196A	

Summit Scientific

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Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

BH-4@5'
2201306-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/26/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFA0481	01/28/22	01/29/22	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: **01/26/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.6 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/26/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0483	01/28/22	01/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/26/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		130 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

BH-4@5'
2201306-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/26/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFA0506	01/31/22	02/01/22	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: **01/26/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		67.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		59.9 %	40-150		"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/26/22 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFB0191	02/17/22	02/17/22	EPA 7196A	

Summit Scientific

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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

SW-1@5'
2201306-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/26/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFA0481	01/28/22	01/29/22	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: **01/26/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.5 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/26/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0483	01/28/22	01/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/26/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		110 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

SW-1@5'
2201306-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/26/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFA0506	01/31/22	02/01/22	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: **01/26/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		56.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		44.5 %	40-150		"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/26/22 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFB0191	02/17/22	02/17/22	EPA 7196A	

Summit Scientific

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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

SW-2@5'
2201306-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/26/22 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFA0481	01/28/22	01/29/22	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: **01/26/22 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.8 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/26/22 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0483	01/28/22	01/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/26/22 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		109 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

SW-2@5'
2201306-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/26/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFA0506	01/31/22	02/01/22	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: **01/26/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		55.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		63.5 %	40-150		"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/26/22 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFB0191	02/17/22	02/17/22	EPA 7196A	

Summit Scientific

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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples

Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

SW-3@5'
2201306-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/26/22 12:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFA0481	01/28/22	01/29/22	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: **01/26/22 12:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.7 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/26/22 12:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0483	01/28/22	01/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/26/22 12:20**

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

PAH by EPA Method 8270D SIM

Summit Scientific

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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

SW-3@5'
2201306-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/26/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFA0506	01/31/22	02/01/22	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: **01/26/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		51.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		44.4 %	40-150		"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/26/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFB0191	02/17/22	02/17/22	EPA 7196A	

Summit Scientific

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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

SW-4@5'
2201306-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/26/22 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFA0481	01/28/22	01/29/22	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: **01/26/22 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		107 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.1 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/26/22 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0483	01/28/22	01/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/26/22 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		102 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

SW-4@5'
2201306-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/26/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFA0506	01/31/22	02/01/22	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: **01/26/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		54.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		68.5 %	40-150		"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/26/22 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFB0191	02/17/22	02/17/22	EPA 7196A	

Summit Scientific

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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

SW-5@5'
2201306-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/26/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFA0481	01/28/22	01/29/22	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: **01/26/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.8 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/26/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0483	01/28/22	01/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/26/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		109 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

SW-5@5'
2201306-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/26/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFA0506	01/31/22	02/01/22	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: **01/26/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		69.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		82.2 %	40-150		"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/26/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFB0191	02/17/22	02/17/22	EPA 7196A	

Summit Scientific

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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

SW-6@5'
2201306-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/26/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFA0481	01/28/22	01/29/22	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: **01/26/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.4 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/26/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0483	01/28/22	01/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/26/22 12:10**

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

PAH by EPA Method 8270D SIM

Summit Scientific

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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

SW-6@5'
2201306-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/26/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFA0506	01/31/22	02/01/22	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: **01/26/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		61.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		72.8 %	40-150		"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/26/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFB0191	02/17/22	02/17/22	EPA 7196A	

Summit Scientific

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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples

Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

SW-7@5'
2201306-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/26/22 12:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFA0481	01/28/22	01/29/22	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: **01/26/22 12:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.2 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/26/22 12:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0483	01/28/22	01/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/26/22 12:40**

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

PAH by EPA Method 8270D SIM

Summit Scientific

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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

SW-7@5'
2201306-11 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/26/22 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFA0506	01/31/22	02/01/22	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: **01/26/22 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		64.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		73.1 %	40-150		"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/26/22 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFB0191	02/17/22	02/17/22	EPA 7196A	

Summit Scientific

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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

SW-8@5'
2201306-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/26/22 11:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFA0481	01/28/22	01/29/22	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: **01/26/22 11:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		109 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.7 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/26/22 11:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0483	01/28/22	01/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/26/22 11:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		109 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

SW-8@5'
2201306-12 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/26/22 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFA0506	01/31/22	02/01/22	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	0.00717	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: **01/26/22 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		68.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		71.6 %	40-150		"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/26/22 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFB0191	02/17/22	02/17/22	EPA 7196A	

Summit Scientific

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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

SW-9@5'
2201306-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/26/22 11:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFA0481	01/28/22	01/30/22	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: **01/26/22 11:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		109 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.4 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/26/22 11:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0483	01/28/22	01/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/26/22 11:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		97.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

SW-9@5'
2201306-13 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/26/22 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFA0506	01/31/22	02/01/22	EPA 8270D SIM	
Anthracene	0.00527	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.00711	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.00636	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0192	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.0120	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/26/22 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		66.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		78.5 %	40-150		"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/26/22 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFB0191	02/17/22	02/17/22	EPA 7196A	

Summit Scientific

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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

SW-10@5'
2201306-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/26/22 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFA0481	01/28/22	01/30/22	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: **01/26/22 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.6 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/26/22 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFA0483	01/28/22	01/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/26/22 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		126 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

SW-10@5'
2201306-14 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/26/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFA0506	01/31/22	02/01/22	EPA 8270D SIM	
Anthracene	0.00656	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0104	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.00501	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.00933	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.00693	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0270	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.0176	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/26/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	72.3 %	40-150			"	"	"	"	
Surrogate: Fluoranthene-d10	78.9 %	40-150			"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/26/22 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFB0191	02/17/22	02/17/22	EPA 7196A	

Summit Scientific

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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

Background1@1'
2201306-15 (Soil)

Summit Scientific

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/26/22 12:47**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BFB0191	02/17/22	02/17/22	EPA 7196A	

Summit Scientific

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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

Background2@1'
2201306-16 (Soil)

Summit Scientific

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/26/22 12:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BFB0191	02/17/22	02/17/22	EPA 7196A	

Summit Scientific

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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

Background3@1'
2201306-17 (Soil)

Summit Scientific

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/26/22 12:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BFB0191	02/17/22	02/17/22	EPA 7196A	

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.



Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

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 BFA0481 - EPA 5030 Soil MS

Blank (BFA0481-BLK1)

Prepared: 01/28/22 Analyzed: 01/29/22

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	"							
Surrogate: 1,2-Dichloroethane-d4	0.0436		"	0.0400		109	23-173			
Surrogate: Toluene-d8	0.0399		"	0.0400		99.8	20-170			
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		97.9	21-167			

LCS (BFA0481-BS1)

Prepared: 01/28/22 Analyzed: 01/29/22

Benzene	0.132	0.0020	mg/kg	0.150		88.3	70-130			
Toluene	0.140	0.0050	"	0.150		93.2	70-130			
Ethylbenzene	0.139	0.0050	"	0.150		92.4	70-130			
m,p-Xylene	0.277	0.010	"	0.300		92.3	70-130			
o-Xylene	0.138	0.0050	"	0.150		91.8	70-130			
1,2,4-Trimethylbenzene	0.135	0.0050	"	0.150		90.1	70-130			
1,3,5-Trimethylbenzene	0.136	0.0050	"	0.150		90.5	70-130			
Naphthalene	0.145	0.0038	"	0.150		97.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0417		"	0.0400		104	23-173			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.8	20-170			
Surrogate: 4-Bromofluorobenzene	0.0408		"	0.0400		102	21-167			

Matrix Spike (BFA0481-MS1)

Source: 2201306-01

Prepared: 01/28/22 Analyzed: 01/29/22

Benzene	0.118	0.0020	mg/kg	0.150	ND	78.7	70-130			
Toluene	0.124	0.0050	"	0.150	ND	82.7	70-130			
Ethylbenzene	0.122	0.0050	"	0.150	ND	81.6	70-130			
m,p-Xylene	0.245	0.010	"	0.300	ND	81.6	70-130			
o-Xylene	0.123	0.0050	"	0.150	ND	82.0	70-130			
1,2,4-Trimethylbenzene	0.122	0.0050	"	0.150	ND	81.4	70-130			
1,3,5-Trimethylbenzene	0.122	0.0050	"	0.150	ND	81.1	70-130			
Naphthalene	0.126	0.0038	"	0.150	ND	83.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0407		"	0.0400		102	23-173			
Surrogate: Toluene-d8	0.0401		"	0.0400		100	20-170			
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.7	21-167			

Summit Scientific

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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

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 BFA0481 - EPA 5030 Soil MS

Matrix Spike Dup (BFA0481-MSD1)	Source: 2201306-01			Prepared: 01/28/22 Analyzed: 01/29/22						
Benzene	0.125	0.0020	mg/kg	0.150	ND	83.4	70-130	5.90	30	
Toluene	0.132	0.0050	"	0.150	ND	87.9	70-130	6.07	30	
Ethylbenzene	0.126	0.0050	"	0.150	ND	83.8	70-130	2.66	30	
m,p-Xylene	0.251	0.010	"	0.300	ND	83.6	70-130	2.43	30	
o-Xylene	0.127	0.0050	"	0.150	ND	84.6	70-130	3.12	30	
1,2,4-Trimethylbenzene	0.124	0.0050	"	0.150	ND	82.5	70-130	1.34	30	
1,3,5-Trimethylbenzene	0.124	0.0050	"	0.150	ND	83.0	70-130	2.32	30	
Naphthalene	0.123	0.0038	"	0.150	ND	81.9	70-130	2.46	30	
Surrogate: 1,2-Dichloroethane-d4	0.0427		"	0.0400		107	23-173			
Surrogate: Toluene-d8	0.0407		"	0.0400		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	21-167			

Summit Scientific

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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFA0483 - EPA 3550A

Blank (BFA0483-BLK1)

Prepared & Analyzed: 01/28/22

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

LCS (BFA0483-BS1)

Prepared & Analyzed: 01/28/22

C10-C28 (DRO)	513	50	mg/kg	500	103	70-130
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Matrix Spike (BFA0483-MS1)

Source: 2201306-01

Prepared & Analyzed: 01/28/22

C10-C28 (DRO)	433	50	mg/kg	500	20.7	82.4	70-130
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Matrix Spike Dup (BFA0483-MSD1)

Source: 2201306-01

Prepared & Analyzed: 01/28/22

C10-C28 (DRO)	504	50	mg/kg	500	20.7	96.6	70-130	15.1	20
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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFA0506 - EPA 5030 Soil MS

Blank (BFA0506-BLK1)

Prepared & Analyzed: 01/31/22

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	"							
Surrogate: 2-Methylnaphthalene-d10	0.0194		"	0.0333		58.1	40-150			
Surrogate: Fluoranthene-d10	0.0228		"	0.0333		68.4	40-150			

LCS (BFA0506-BS1)

Prepared & Analyzed: 01/31/22

Acenaphthene	0.0213	0.00500	mg/kg	0.0333		63.9	31-137			
Anthracene	0.0238	0.00500	"	0.0333		71.4	30-120			
Benzo (a) anthracene	0.0270	0.00500	"	0.0333		80.9	30-120			
Benzo (a) pyrene	0.0206	0.00500	"	0.0333		61.8	30-120			
Benzo (b) fluoranthene	0.0212	0.00500	"	0.0333		63.5	30-120			
Benzo (k) fluoranthene	0.0173	0.00500	"	0.0333		51.8	30-120			
Chrysene	0.0217	0.00500	"	0.0333		65.0	30-120			
Dibenz (a,h) anthracene	0.0244	0.00500	"	0.0333		73.1	30-120			
Fluoranthene	0.0248	0.00500	"	0.0333		74.4	30-120			
Fluorene	0.0222	0.00500	"	0.0333		66.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0247	0.00500	"	0.0333		74.0	30-120			
Pyrene	0.0225	0.00500	"	0.0333		67.5	35-142			
1-Methylnaphthalene	0.0230	0.00500	"	0.0333		69.0	35-142			
2-Methylnaphthalene	0.0159	0.00500	"	0.0333		47.8	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0226		"	0.0333		67.9	40-150			
Surrogate: Fluoranthene-d10	0.0262		"	0.0333		78.7	40-150			

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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFA0506 - EPA 5030 Soil MS

Matrix Spike (BFA0506-MS1)			Source: 2201185-01			Prepared & Analyzed: 01/31/22				
Acenaphthene	0.971	0.00500	mg/kg	0.0333	1.00	NR	31-137			E
Anthracene	1.43	0.00500	"	0.0333	2.62	NR	30-120			E
Benzo (a) anthracene	6.05	0.00500	"	0.0333	3.36	NR	30-120			E
Benzo (a) pyrene	1.93	0.00500	"	0.0333	1.85	253	30-120			E
Benzo (b) fluoranthene	2.69	0.00500	"	0.0333	2.22	NR	30-120			E
Benzo (k) fluoranthene	ND	0.00500	"	0.0333	0.885	NR	30-120			QM-07
Chrysene	ND	0.00500	"	0.0333	3.13	NR	30-120			QM-07
Dibenz (a,h) anthracene	0.267	0.00500	"	0.0333	0.124	430	30-120			E
Fluoranthene	3.29	0.00500	"	0.0333	13.2	NR	30-120			E
Fluorene	1.00	0.00500	"	0.0333	0.888	344	30-120			E
Indeno (1,2,3-cd) pyrene	0.778	0.00500	"	0.0333	1.23	NR	30-120			E
Pyrene	4.67	0.00500	"	0.0333	4.65	46.6	35-142			E
1-Methylnaphthalene	0.193	0.00500	"	0.0333	0.120	219	15-130			E
2-Methylnaphthalene	0.255	0.00500	"	0.0333	0.154	302	15-130			E
Surrogate: 2-Methylnaphthalene-d10	0.0218		"	0.0333		65.3	40-150			
Surrogate: Fluoranthene-d10	0.0565		"	0.0333		170	40-150			S-02

Matrix Spike Dup (BFA0506-MSD1)			Source: 2201185-01			Prepared: 01/31/22 Analyzed: 02/01/22				
Acenaphthene	0.429	0.00500	mg/kg	0.0333	1.00	NR	31-137	77.4	30	E
Anthracene	0.722	0.00500	"	0.0333	2.62	NR	30-120	65.6	30	E
Benzo (a) anthracene	1.50	0.00500	"	0.0333	3.36	NR	30-120	121	30	E
Benzo (a) pyrene	0.712	0.00500	"	0.0333	1.85	NR	30-120	92.1	30	E
Benzo (b) fluoranthene	1.06	0.00500	"	0.0333	2.22	NR	30-120	87.2	30	E
Benzo (k) fluoranthene	ND	0.00500	"	0.0333	0.885	NR	30-120		30	QM-07
Chrysene	0.897	0.00500	"	0.0333	3.13	NR	30-120	200	30	E
Dibenz (a,h) anthracene	0.0808	0.00500	"	0.0333	0.124	NR	30-120	107	30	E
Fluoranthene	1.44	0.00500	"	0.0333	13.2	NR	30-120	78.2	30	E
Fluorene	0.586	0.00500	"	0.0333	0.888	NR	30-120	52.4	30	E
Indeno (1,2,3-cd) pyrene	0.268	0.00500	"	0.0333	1.23	NR	30-120	97.5	30	E
Pyrene	1.48	0.00500	"	0.0333	4.65	NR	35-142	104	30	E
1-Methylnaphthalene	0.0587	0.00500	"	0.0333	0.120	NR	15-130	107	50	QM-07
2-Methylnaphthalene	0.0653	0.00500	"	0.0333	0.154	NR	15-130	118	50	QM-07
Surrogate: 2-Methylnaphthalene-d10	0.00827		"	0.0333		24.8	40-150			S-02
Surrogate: Fluoranthene-d10	0.0127		"	0.0333		38.1	40-150			S-02

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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFB0191 - 3060A Mod

Blank (BFB0191-BLK1)

Prepared & Analyzed: 02/17/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFB0191-BS1)

Prepared & Analyzed: 02/17/22

Chromium, Hexavalent 26.2 0.30 mg/kg wet 25.0 105 80-120

Duplicate (BFB0191-DUP1)

Source: 2201306-01

Prepared & Analyzed: 02/17/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFB0191-MS1)

Source: 2201306-01

Prepared & Analyzed: 02/17/22

Chromium, Hexavalent 37.0 0.30 mg/kg dry 31.7 ND 117 75-125

Matrix Spike Dup (BFB0191-MSD1)

Source: 2201306-01

Prepared & Analyzed: 02/17/22

Chromium, Hexavalent 36.2 0.30 mg/kg dry 31.7 ND 114 75-125 2.25 20

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Fremont
Analytical

3600 Fremont Ave. N.
Seattle, WA 98103
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info@fremontanalytical.com

Summit Scientific
Muri Premer
4653 Table Mountain Dr
Golden, CO 80403

RE: 2201306
Work Order Number: 2201553

March 22, 2022

Attention Muri Premer:

Fremont Analytical, Inc. received 17 sample(s) on 1/31/2022 for the analyses presented in the following report.

Conductivity by SM 2510B
pH by SM 4500H+B
Sample Moisture (Percent Moisture)
Sodium Adsorption Ratio
Total Metals by EPA Method 6020B

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

CC:
Muri Premer
Paul Shrewsbury

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

www.fremontanalytical.com

CLIENT: Summit Scientific
Project: 2201306
Work Order: 2201553

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2201553-001	BH-1 @5'	01/26/2022 11:40 AM	01/31/2022 10:07 AM
2201553-001	BH-1 @5'	01/26/2022 11:40 AM	01/31/2022 10:07 AM
2201553-002	BH-2 @10'	01/26/2022 12:45 PM	01/31/2022 10:07 AM
2201553-002	BH-2 @10'	01/26/2022 12:45 PM	01/31/2022 10:07 AM
2201553-003	BH-3 @5'	01/26/2022 12:00 PM	01/31/2022 10:07 AM
2201553-004	BH-4 @5'	01/26/2022 12:25 PM	01/31/2022 10:07 AM
2201553-005	SW-1 @5'	01/26/2022 11:45 AM	01/31/2022 10:07 AM
2201553-006	SW-2 @5'	01/26/2022 12:05 PM	01/31/2022 10:07 AM
2201553-007	SW-3 @5'	01/26/2022 12:20 PM	01/31/2022 10:07 AM
2201553-008	SW-4 @5'	01/26/2022 12:35 PM	01/31/2022 10:07 AM
2201553-009	SW-5 @5'	01/26/2022 12:15 PM	01/31/2022 10:07 AM
2201553-010	SW-6 @5'	01/26/2022 12:10 PM	01/31/2022 10:07 AM
2201553-011	SW-7 @5'	01/26/2022 12:40 PM	01/31/2022 10:07 AM
2201553-012	SW-8 @5'	01/26/2022 11:50 AM	01/31/2022 10:07 AM
2201553-013	SW-9 @5'	01/26/2022 11:55 AM	01/31/2022 10:07 AM
2201553-014	SW-10 @5'	01/26/2022 12:30 PM	01/31/2022 10:07 AM
2201553-015	Background 1 @1'	01/26/2022 12:00 AM	01/31/2022 10:07 AM
2201553-015	Background 1 @1'	01/26/2022 12:00 AM	01/31/2022 10:07 AM
2201553-016	Background 2 @1'	01/26/2022 12:00 AM	01/31/2022 10:07 AM
2201553-016	Background 2 @1'	01/26/2022 12:00 AM	01/31/2022 10:07 AM
2201553-017	Background 3 @1'	01/26/2022 12:00 AM	01/31/2022 10:07 AM
2201553-017	Background 3 @1'	01/26/2022 12:00 AM	01/31/2022 10:07 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Summit Scientific
Project: 2201306

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

The following preparation methods were performed per client request:

Boron was prepared using Hot Water Soluble Method provided by client.

Conductivity, Sodium Adsorption Ratio, and pH were prepared using Saturated Paste Method provided by client.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: Summit Scientific

Collection Date: 1/26/2022 11:40:00 AM

Project: 2201306

Lab ID: 2201553-001

Matrix: Soil

Client Sample ID: BH-1 @5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Total Metals by EPA Method 6020B

Batch ID: 35429

Analyst: EH

Arsenic	5.83	0.573	D	mg/Kg-dry	5	2/28/2022 3:17:49 PM
Barium	403	2.86	D	mg/Kg-dry	5	2/28/2022 3:17:49 PM
Cadmium	0.269	0.191		mg/Kg-dry	1	2/22/2022 9:16:27 PM
Copper	11.7	0.954		mg/Kg-dry	1	2/22/2022 9:16:27 PM
Lead	6.78	0.191		mg/Kg-dry	1	2/22/2022 9:16:27 PM
Nickel	12.6	0.477		mg/Kg-dry	1	2/22/2022 9:16:27 PM
Selenium	1.22	0.191		mg/Kg-dry	1	2/22/2022 9:16:27 PM
Silver	ND	0.143		mg/Kg-dry	1	2/22/2022 9:16:27 PM
Zinc	31.0	1.67		mg/Kg-dry	1	2/22/2022 9:16:27 PM

Total Metals by EPA Method 6020B

Batch ID: 35453

Analyst: EH

Boron	0.133	0.00988		mg/L	1	3/21/2022 1:20:32 PM
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Sodium Adsorption Ratio

Batch ID: 35795

Analyst: WC

Sodium Adsorption Ratio (SAR)	0.0279	0		mEq/L	1	3/19/2022 12:09:00 AM
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Sample Moisture (Percent Moisture)

Batch ID: R73141

Analyst: MCH

Percent Moisture	19.4	0.500		wt%	1	2/8/2022 3:39:46 PM
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Conductivity by SM 2510B

Batch ID: R74165

Analyst: SS

Specific Conductance (Conductivity)	52.7	1.00		µS/cm	1	3/21/2022 11:15:00 AM
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pH by SM 4500H+B

Batch ID: R74163

Analyst: SS

Hydrogen Ion (pH)	9.47			pH	1	3/21/2022 11:20:00 AM
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Analytical Report

Work Order: 2201553
Date Reported: 3/22/2022

Client: Summit Scientific

Collection Date: 1/26/2022 12:45:00 PM

Project: 2201306

Lab ID: 2201553-002

Matrix: Soil

Client Sample ID: BH-2@10'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Total Metals by EPA Method 6020B

Batch ID: 35438 Analyst: EH

Arsenic	5.79	0.233	D	mg/Kg-dry	2	2/21/2022 5:18:28 PM
Barium	99.3	1.17	D	mg/Kg-dry	2	2/21/2022 5:18:28 PM
Cadmium	ND	0.388	D	mg/Kg-dry	2	2/21/2022 5:18:28 PM
Copper	13.4	1.94	D	mg/Kg-dry	2	2/21/2022 5:18:28 PM
Lead	15.5	0.388	D	mg/Kg-dry	2	2/21/2022 5:18:28 PM
Nickel	10.5	0.971	D	mg/Kg-dry	2	2/21/2022 5:18:28 PM
Selenium	2.36	0.388	D	mg/Kg-dry	2	2/21/2022 5:18:28 PM
Silver	ND	0.291	D	mg/Kg-dry	2	2/21/2022 5:18:28 PM
Zinc	52.8	3.40	D	mg/Kg-dry	2	2/21/2022 5:18:28 PM

Total Metals by EPA Method 6020B

Batch ID: 35453 Analyst: EH

Boron	0.182	0.00898		mg/L	1	3/21/2022 1:21:42 PM
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Sodium Adsorption Ratio

Batch ID: 35795 Analyst: WC

Sodium Adsorption Ratio (SAR)	0.138	0		mEq/L	1	3/19/2022 12:11:00 AM
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Sample Moisture (Percent Moisture)

Batch ID: R73141 Analyst: MCH

Percent Moisture	18.9	0.500		wt%	1	2/8/2022 3:39:46 PM
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Conductivity by SM 2510B

Batch ID: R74165 Analyst: SS

Specific Conductance (Conductivity)	63.1	1.00		µS/cm	1	3/21/2022 11:15:00 AM
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pH by SM 4500H+B

Batch ID: R74163 Analyst: SS

Hydrogen Ion (pH)	9.33			pH	1	3/21/2022 11:20:00 AM
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Client: Summit Scientific

Collection Date: 1/26/2022 12:00:00 PM

Project: 2201306

Lab ID: 2201553-003

Matrix: Soil

Client Sample ID: BH-3@5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Total Metals by EPA Method 6020B

Batch ID: 35438 Analyst: EH

Arsenic	3.50	0.207	D	mg/Kg-dry	2	2/21/2022 5:21:10 PM
Barium	84.6	1.03	D	mg/Kg-dry	2	2/21/2022 5:21:10 PM
Cadmium	ND	0.345	D	mg/Kg-dry	2	2/21/2022 5:21:10 PM
Copper	5.14	1.72	D	mg/Kg-dry	2	2/21/2022 5:21:10 PM
Lead	5.64	0.345	D	mg/Kg-dry	2	2/21/2022 5:21:10 PM
Nickel	7.15	0.862	D	mg/Kg-dry	2	2/21/2022 5:21:10 PM
Selenium	1.34	0.345	D	mg/Kg-dry	2	2/21/2022 5:21:10 PM
Silver	ND	0.259	D	mg/Kg-dry	2	2/21/2022 5:21:10 PM
Zinc	23.2	3.02	D	mg/Kg-dry	2	2/21/2022 5:21:10 PM

Total Metals by EPA Method 6020B

Batch ID: 35453 Analyst: EH

Boron	0.0539	0.00978		mg/L	1	3/21/2022 1:22:52 PM
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Sodium Adsorption Ratio

Batch ID: 35795 Analyst: WC

Sodium Adsorption Ratio (SAR)	0.0415	0		mEq/L	1	3/19/2022 12:14:00 AM
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Sample Moisture (Percent Moisture)

Batch ID: R73141 Analyst: MCH

Percent Moisture	7.93	0.500		wt%	1	2/8/2022 3:39:46 PM
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Conductivity by SM 2510B

Batch ID: R74165 Analyst: SS

Specific Conductance (Conductivity)	42.7	1.00		µS/cm	1	3/21/2022 11:15:00 AM
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pH by SM 4500H+B

Batch ID: R74163 Analyst: SS

Hydrogen Ion (pH)	9.42			pH	1	3/21/2022 11:20:00 AM
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Analytical Report

Work Order: 2201553

Date Reported: 3/22/2022

Client: Summit Scientific

Collection Date: 1/26/2022 12:25:00 PM

Project: 2201306

Lab ID: 2201553-004

Matrix: Soil

Client Sample ID: BH-4@5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Total Metals by EPA Method 6020B

Batch ID: 35438

Analyst: EH

Arsenic	5.16	0.229	D	mg/Kg-dry	2	2/21/2022 5:24:08 PM
Barium	55.5	1.15	D	mg/Kg-dry	2	2/21/2022 5:24:08 PM
Cadmium	ND	0.382	D	mg/Kg-dry	2	2/21/2022 5:24:08 PM
Copper	9.91	1.91	D	mg/Kg-dry	2	2/21/2022 5:24:08 PM
Lead	9.96	0.382	D	mg/Kg-dry	2	2/21/2022 5:24:08 PM
Nickel	12.7	0.954	D	mg/Kg-dry	2	2/21/2022 5:24:08 PM
Selenium	1.92	0.382	D	mg/Kg-dry	2	2/21/2022 5:24:08 PM
Silver	ND	0.286	D	mg/Kg-dry	2	2/21/2022 5:24:08 PM
Zinc	39.1	3.34	D	mg/Kg-dry	2	2/21/2022 5:24:08 PM

Total Metals by EPA Method 6020B

Batch ID: 35453

Analyst: EH

Boron	0.112	0.00913		mg/L	1	3/21/2022 1:24:02 PM
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Sodium Adsorption Ratio

Batch ID: 35795

Analyst: WC

Sodium Adsorption Ratio (SAR)	0.0684	0		mEq/L	1	3/19/2022 12:16:00 AM
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Sample Moisture (Percent Moisture)

Batch ID: R73141

Analyst: MCH

Percent Moisture	17.5	0.500		wt%	1	2/8/2022 3:39:46 PM
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Conductivity by SM 2510B

Batch ID: R74165

Analyst: SS

Specific Conductance (Conductivity)	51.9	1.00		µS/cm	1	3/21/2022 11:15:00 AM
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pH by SM 4500H+B

Batch ID: R74163

Analyst: SS

Hydrogen Ion (pH)	9.51			pH	1	3/21/2022 11:20:00 AM
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Analytical Report

Work Order: 2201553
Date Reported: 3/22/2022

Client: Summit Scientific

Collection Date: 1/26/2022 11:45:00 AM

Project: 2201306

Lab ID: 2201553-005

Matrix: Soil

Client Sample ID: SW-1 @5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Total Metals by EPA Method 6020B

Batch ID: 35438 Analyst: EH

Arsenic	6.20	0.222	D	mg/Kg-dry	2	2/21/2022 5:27:06 PM
Barium	196	1.11	D	mg/Kg-dry	2	2/21/2022 5:27:06 PM
Cadmium	ND	0.370	D	mg/Kg-dry	2	2/21/2022 5:27:06 PM
Copper	12.9	1.85	D	mg/Kg-dry	2	2/21/2022 5:27:06 PM
Lead	12.8	0.370	D	mg/Kg-dry	2	2/21/2022 5:27:06 PM
Nickel	15.1	0.924	D	mg/Kg-dry	2	2/21/2022 5:27:06 PM
Selenium	2.32	0.370	D	mg/Kg-dry	2	2/21/2022 5:27:06 PM
Silver	ND	0.277	D	mg/Kg-dry	2	2/21/2022 5:27:06 PM
Zinc	51.6	3.23	D	mg/Kg-dry	2	2/21/2022 5:27:06 PM

Total Metals by EPA Method 6020B

Batch ID: 35453 Analyst: EH

Boron	0.250	0.00999		mg/L	1	3/21/2022 1:15:51 PM
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Sodium Adsorption Ratio

Batch ID: 35795 Analyst: WC

Sodium Adsorption Ratio (SAR)	0.0593	0		mEq/L	1	3/19/2022 12:18:00 AM
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Sample Moisture (Percent Moisture)

Batch ID: R73141 Analyst: MCH

Percent Moisture	14.8	0.500		wt%	1	2/8/2022 3:39:46 PM
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Conductivity by SM 2510B

Batch ID: R74165 Analyst: SS

Specific Conductance (Conductivity)	46.9	1.00		µS/cm	1	3/21/2022 11:15:00 AM
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pH by SM 4500H+B

Batch ID: R74163 Analyst: SS

Hydrogen Ion (pH)	8.35			pH	1	3/21/2022 11:20:00 AM
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Analytical Report

Work Order: 2201553

Date Reported: 3/22/2022

Client: Summit Scientific

Collection Date: 1/26/2022 12:05:00 PM

Project: 2201306

Lab ID: 2201553-006

Matrix: Soil

Client Sample ID: SW-2@5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Total Metals by EPA Method 6020B

Batch ID: 35438

Analyst: EH

Arsenic	6.55	0.220	D	mg/Kg-dry	2	2/21/2022 5:30:03 PM
Barium	211	1.10	D	mg/Kg-dry	2	2/21/2022 5:30:03 PM
Cadmium	ND	0.367	D	mg/Kg-dry	2	2/21/2022 5:30:03 PM
Copper	13.2	1.84	D	mg/Kg-dry	2	2/21/2022 5:30:03 PM
Lead	12.6	0.367	D	mg/Kg-dry	2	2/21/2022 5:30:03 PM
Nickel	16.1	0.918	D	mg/Kg-dry	2	2/21/2022 5:30:03 PM
Selenium	2.69	0.367	D	mg/Kg-dry	2	2/21/2022 5:30:03 PM
Silver	ND	0.275	D	mg/Kg-dry	2	2/21/2022 5:30:03 PM
Zinc	53.5	3.21	D	mg/Kg-dry	2	2/21/2022 5:30:03 PM

Total Metals by EPA Method 6020B

Batch ID: 35453

Analyst: EH

Boron	0.184	0.00980		mg/L	1	3/21/2022 1:27:43 PM
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Sodium Adsorption Ratio

Batch ID: 35795

Analyst: WC

Sodium Adsorption Ratio (SAR)	0.112	0		mEq/L	1	3/19/2022 12:25:00 AM
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Sample Moisture (Percent Moisture)

Batch ID: R73141

Analyst: MCH

Percent Moisture	12.9	0.500		wt%	1	2/8/2022 3:39:46 PM
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Conductivity by SM 2510B

Batch ID: R74165

Analyst: SS

Specific Conductance (Conductivity)	50.9	1.00		µS/cm	1	3/21/2022 11:15:00 AM
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pH by SM 4500H+B

Batch ID: R74163

Analyst: SS

Hydrogen Ion (pH)	9.25			pH	1	3/21/2022 11:20:00 AM
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Analytical Report

Work Order: 2201553
Date Reported: 3/22/2022

Client: Summit Scientific

Collection Date: 1/26/2022 12:20:00 PM

Project: 2201306

Lab ID: 2201553-007

Matrix: Soil

Client Sample ID: SW-3@5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Total Metals by EPA Method 6020B

Batch ID: 35438 Analyst: EH

Arsenic	4.02	0.203	D	mg/Kg-dry	2	2/21/2022 5:33:01 PM
Barium	229	1.02	D	mg/Kg-dry	2	2/21/2022 5:33:01 PM
Cadmium	ND	0.339	D	mg/Kg-dry	2	2/21/2022 5:33:01 PM
Copper	7.34	1.69	D	mg/Kg-dry	2	2/21/2022 5:33:01 PM
Lead	7.44	0.339	D	mg/Kg-dry	2	2/21/2022 5:33:01 PM
Nickel	8.79	0.847	D	mg/Kg-dry	2	2/21/2022 5:33:01 PM
Selenium	1.44	0.339	D	mg/Kg-dry	2	2/21/2022 5:33:01 PM
Silver	ND	0.254	D	mg/Kg-dry	2	2/21/2022 5:33:01 PM
Zinc	30.9	2.96	D	mg/Kg-dry	2	2/21/2022 5:33:01 PM

Total Metals by EPA Method 6020B

Batch ID: 35453 Analyst: EH

Boron	0.0731	0.00975		mg/L	1	3/21/2022 1:28:53 PM
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Sodium Adsorption Ratio

Batch ID: 35795 Analyst: WC

Sodium Adsorption Ratio (SAR)	0.0806	0		mEq/L	1	3/19/2022 12:27:00 AM
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Sample Moisture (Percent Moisture)

Batch ID: R73141 Analyst: MCH

Percent Moisture	7.76	0.500		wt%	1	2/8/2022 3:39:46 PM
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Conductivity by SM 2510B

Batch ID: R74165 Analyst: SS

Specific Conductance (Conductivity)	42.5	1.00		µS/cm	1	3/21/2022 11:15:00 AM
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pH by SM 4500H+B

Batch ID: R74163 Analyst: SS

Hydrogen Ion (pH)	9.39			pH	1	3/21/2022 11:20:00 AM
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Client: Summit Scientific

Collection Date: 1/26/2022 12:35:00 PM

Project: 2201306

Lab ID: 2201553-008

Matrix: Soil

Client Sample ID: SW-4@5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Total Metals by EPA Method 6020B

Batch ID: 35438

Analyst: EH

Arsenic	4.30	0.215	D	mg/Kg-dry	2	2/21/2022 5:35:59 PM
Barium	152	1.07	D	mg/Kg-dry	2	2/21/2022 5:35:59 PM
Cadmium	ND	0.358	D	mg/Kg-dry	2	2/21/2022 5:35:59 PM
Copper	7.26	1.79	D	mg/Kg-dry	2	2/21/2022 5:35:59 PM
Lead	7.06	0.358	D	mg/Kg-dry	2	2/21/2022 5:35:59 PM
Nickel	9.19	0.894	D	mg/Kg-dry	2	2/21/2022 5:35:59 PM
Selenium	1.51	0.358	D	mg/Kg-dry	2	2/21/2022 5:35:59 PM
Silver	ND	0.268	D	mg/Kg-dry	2	2/21/2022 5:35:59 PM
Zinc	31.9	3.13	D	mg/Kg-dry	2	2/21/2022 5:35:59 PM

Total Metals by EPA Method 6020B

Batch ID: 35453

Analyst: EH

Boron	0.0596	0.00979		mg/L	1	3/21/2022 1:30:02 PM
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Sodium Adsorption Ratio

Batch ID: 35792

Analyst: WC

Sodium Adsorption Ratio (SAR)	0.0381	0		mEq/L	1	3/18/2022 1:13:00 PM
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Sample Moisture (Percent Moisture)

Batch ID: R73141

Analyst: MCH

Percent Moisture	10.6	0.500		wt%	1	2/8/2022 3:39:46 PM
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Conductivity by SM 2510B

Batch ID: R74196

Analyst: SS

Specific Conductance (Conductivity)	45.8	1.00		µS/cm	1	3/22/2022 10:30:00 AM
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pH by SM 4500H+B

Batch ID: R74155

Analyst: SS

Hydrogen Ion (pH)	9.62			pH	1	3/18/2022 11:00:00 AM
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Analytical Report

Work Order: 2201553
Date Reported: 3/22/2022

Client: Summit Scientific

Collection Date: 1/26/2022 12:15:00 PM

Project: 2201306

Lab ID: 2201553-009

Matrix: Soil

Client Sample ID: SW-5@5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Total Metals by EPA Method 6020B

Batch ID: 35438 Analyst: EH

Arsenic	5.50	0.212	D	mg/Kg-dry	2	2/21/2022 5:38:57 PM
Barium	53.5	1.06	D	mg/Kg-dry	2	2/21/2022 5:38:57 PM
Cadmium	ND	0.354	D	mg/Kg-dry	2	2/21/2022 5:38:57 PM
Copper	7.15	1.77	D	mg/Kg-dry	2	2/21/2022 5:38:57 PM
Lead	7.09	0.354	D	mg/Kg-dry	2	2/21/2022 5:38:57 PM
Nickel	9.13	0.884	D	mg/Kg-dry	2	2/21/2022 5:38:57 PM
Selenium	1.47	0.354	D	mg/Kg-dry	2	2/21/2022 5:38:57 PM
Silver	ND	0.265	D	mg/Kg-dry	2	2/21/2022 5:38:57 PM
Zinc	29.7	3.10	D	mg/Kg-dry	2	2/21/2022 5:38:57 PM

Total Metals by EPA Method 6020B

Batch ID: 35453 Analyst: EH

Boron	0.0499	0.00969		mg/L	1	3/21/2022 1:31:12 PM
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Sodium Adsorption Ratio

Batch ID: 35792 Analyst: WC

Sodium Adsorption Ratio (SAR)	0.0619	0		mEq/L	1	3/18/2022 1:06:00 PM
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Sample Moisture (Percent Moisture)

Batch ID: R73141 Analyst: MCH

Percent Moisture	11.7	0.500		wt%	1	2/8/2022 3:39:46 PM
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Conductivity by SM 2510B

Batch ID: R74196 Analyst: SS

Specific Conductance (Conductivity)	40.2	1.00		µS/cm	1	3/22/2022 10:30:00 AM
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pH by SM 4500H+B

Batch ID: R74155 Analyst: SS

Hydrogen Ion (pH)	9.49			pH	1	3/18/2022 11:00:00 AM
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Client: Summit Scientific

Collection Date: 1/26/2022 12:10:00 PM

Project: 2201306

Lab ID: 2201553-010

Matrix: Soil

Client Sample ID: SW-6@5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Total Metals by EPA Method 6020B

Batch ID: 35438

Analyst: EH

Arsenic	5.22	0.224	D	mg/Kg-dry	2	2/21/2022 5:41:54 PM
Barium	179	1.12	D	mg/Kg-dry	2	2/21/2022 5:41:54 PM
Cadmium	ND	0.373	D	mg/Kg-dry	2	2/21/2022 5:41:54 PM
Copper	10.4	1.87	D	mg/Kg-dry	2	2/21/2022 5:41:54 PM
Lead	8.77	0.373	D	mg/Kg-dry	2	2/21/2022 5:41:54 PM
Nickel	12.5	0.934	D	mg/Kg-dry	2	2/21/2022 5:41:54 PM
Selenium	1.98	0.373	D	mg/Kg-dry	2	2/21/2022 5:41:54 PM
Silver	ND	0.280	D	mg/Kg-dry	2	2/21/2022 5:41:54 PM
Zinc	38.8	3.27	D	mg/Kg-dry	2	2/21/2022 5:41:54 PM

Total Metals by EPA Method 6020B

Batch ID: 35453

Analyst: EH

Boron	0.0581	0.00956		mg/L	1	3/21/2022 1:32:22 PM
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Sodium Adsorption Ratio

Batch ID: 35792

Analyst: WC

Sodium Adsorption Ratio (SAR)	0.0310	0		mEq/L	1	3/18/2022 1:16:00 PM
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Sample Moisture (Percent Moisture)

Batch ID: R73141

Analyst: MCH

Percent Moisture	15.0	0.500		wt%	1	2/8/2022 3:39:46 PM
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Conductivity by SM 2510B

Batch ID: R74196

Analyst: SS

Specific Conductance (Conductivity)	46.6	1.00		µS/cm	1	3/22/2022 10:30:00 AM
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pH by SM 4500H+B

Batch ID: R74155

Analyst: SS

Hydrogen Ion (pH)	9.48			pH	1	3/18/2022 11:00:00 AM
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Analytical Report

Work Order: 2201553
Date Reported: 3/22/2022

Client: Summit Scientific

Collection Date: 1/26/2022 12:40:00 PM

Project: 2201306

Lab ID: 2201553-011

Matrix: Soil

Client Sample ID: SW-7@5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Total Metals by EPA Method 6020B

Batch ID: 35438

Analyst: EH

Arsenic	6.74	0.221	D	mg/Kg-dry	2	2/21/2022 5:50:49 PM
Barium	157	1.11	D	mg/Kg-dry	2	2/21/2022 5:50:49 PM
Cadmium	ND	0.369	D	mg/Kg-dry	2	2/21/2022 5:50:49 PM
Copper	13.6	1.84	D	mg/Kg-dry	2	2/21/2022 5:50:49 PM
Lead	11.7	0.369	D	mg/Kg-dry	2	2/21/2022 5:50:49 PM
Nickel	15.0	0.922	D	mg/Kg-dry	2	2/21/2022 5:50:49 PM
Selenium	2.23	0.369	D	mg/Kg-dry	2	2/21/2022 5:50:49 PM
Silver	ND	0.277	D	mg/Kg-dry	2	2/21/2022 5:50:49 PM
Zinc	49.8	3.23	D	mg/Kg-dry	2	2/21/2022 5:50:49 PM

Total Metals by EPA Method 6020B

Batch ID: 35453

Analyst: EH

Boron	0.201	0.00996		mg/L	1	3/21/2022 1:33:32 PM
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Sodium Adsorption Ratio

Batch ID: 35792

Analyst: WC

Sodium Adsorption Ratio (SAR)	0.0351	0		mEq/L	1	3/18/2022 1:19:00 PM
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Sample Moisture (Percent Moisture)

Batch ID: R73141

Analyst: MCH

Percent Moisture	13.2	0.500		wt%	1	2/8/2022 3:39:46 PM
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Conductivity by SM 2510B

Batch ID: R74196

Analyst: SS

Specific Conductance (Conductivity)	41.5	1.00		µS/cm	1	3/22/2022 10:30:00 AM
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pH by SM 4500H+B

Batch ID: R74155

Analyst: SS

Hydrogen Ion (pH)	9.18			pH	1	3/18/2022 11:00:00 AM
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Analytical Report

Work Order: 2201553

Date Reported: 3/22/2022

Client: Summit Scientific

Collection Date: 1/26/2022 11:50:00 AM

Project: 2201306

Lab ID: 2201553-012

Matrix: Soil

Client Sample ID: SW-8@5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Total Metals by EPA Method 6020B

Batch ID: 35438

Analyst: EH

Arsenic	5.50	0.217	D	mg/Kg-dry	2	2/21/2022 5:53:47 PM
Barium	358	1.08	D	mg/Kg-dry	2	2/21/2022 5:53:47 PM
Cadmium	ND	0.361	D	mg/Kg-dry	2	2/21/2022 5:53:47 PM
Copper	7.81	1.81	D	mg/Kg-dry	2	2/21/2022 5:53:47 PM
Lead	8.23	0.361	D	mg/Kg-dry	2	2/21/2022 5:53:47 PM
Nickel	10.8	0.903	D	mg/Kg-dry	2	2/21/2022 5:53:47 PM
Selenium	1.37	0.361	D	mg/Kg-dry	2	2/21/2022 5:53:47 PM
Silver	ND	0.271	D	mg/Kg-dry	2	2/21/2022 5:53:47 PM
Zinc	35.9	3.16	D	mg/Kg-dry	2	2/21/2022 5:53:47 PM

Total Metals by EPA Method 6020B

Batch ID: 35453

Analyst: EH

Boron	0.0952	0.00869		mg/L	1	3/21/2022 1:34:41 PM
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Sodium Adsorption Ratio

Batch ID: 35792

Analyst: WC

Sodium Adsorption Ratio (SAR)	0.0763	0		mEq/L	1	3/18/2022 1:23:00 PM
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Sample Moisture (Percent Moisture)

Batch ID: R73141

Analyst: MCH

Percent Moisture	13.5	0.500		wt%	1	2/8/2022 3:39:46 PM
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Conductivity by SM 2510B

Batch ID: R74196

Analyst: SS

Specific Conductance (Conductivity)	46.4	1.00		µS/cm	1	3/22/2022 10:30:00 AM
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pH by SM 4500H+B

Batch ID: R74155

Analyst: SS

Hydrogen Ion (pH)	9.60			pH	1	3/18/2022 11:00:00 AM
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Analytical Report

Work Order: 2201553
Date Reported: 3/22/2022

Client: Summit Scientific

Collection Date: 1/26/2022 11:55:00 AM

Project: 2201306

Lab ID: 2201553-013

Matrix: Soil

Client Sample ID: SW-9@5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Total Metals by EPA Method 6020B

Batch ID: 35438 Analyst: EH

Arsenic	4.32	0.201	D	mg/Kg-dry	2	2/21/2022 5:56:45 PM
Barium	56.3	1.01	D	mg/Kg-dry	2	2/21/2022 5:56:45 PM
Cadmium	ND	0.336	D	mg/Kg-dry	2	2/21/2022 5:56:45 PM
Copper	7.16	1.68	D	mg/Kg-dry	2	2/21/2022 5:56:45 PM
Lead	7.28	0.336	D	mg/Kg-dry	2	2/21/2022 5:56:45 PM
Nickel	8.44	0.840	D	mg/Kg-dry	2	2/21/2022 5:56:45 PM
Selenium	1.45	0.336	D	mg/Kg-dry	2	2/21/2022 5:56:45 PM
Silver	ND	0.252	D	mg/Kg-dry	2	2/21/2022 5:56:45 PM
Zinc	29.4	2.94	D	mg/Kg-dry	2	2/21/2022 5:56:45 PM

Total Metals by EPA Method 6020B

Batch ID: 35453 Analyst: EH

Boron	0.0692	0.00868		mg/L	1	3/21/2022 1:35:51 PM
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Sodium Adsorption Ratio

Batch ID: 35792 Analyst: WC

Sodium Adsorption Ratio (SAR)	0.113	0		mEq/L	1	3/18/2022 1:26:00 PM
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Sample Moisture (Percent Moisture)

Batch ID: R73162 Analyst: ALB

Percent Moisture	6.94	0.500		wt%	1	2/9/2022 11:49:43 AM
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Conductivity by SM 2510B

Batch ID: R74196 Analyst: SS

Specific Conductance (Conductivity)	27.6	1.00		µS/cm	1	3/22/2022 10:30:00 AM
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pH by SM 4500H+B

Batch ID: R74155 Analyst: SS

Hydrogen Ion (pH)	7.39			pH	1	3/18/2022 11:00:00 AM
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Analytical Report

Work Order: 2201553
Date Reported: 3/22/2022

Client: Summit Scientific

Collection Date: 1/26/2022 12:30:00 PM

Project: 2201306

Lab ID: 2201553-014

Matrix: Soil

Client Sample ID: SW-10@5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Total Metals by EPA Method 6020B

Batch ID: 35438 Analyst: EH

Arsenic	4.43	0.216	D	mg/Kg-dry	2	2/21/2022 5:59:42 PM
Barium	70.3	1.08	D	mg/Kg-dry	2	2/21/2022 5:59:42 PM
Cadmium	ND	0.360	D	mg/Kg-dry	2	2/21/2022 5:59:42 PM
Copper	7.62	1.80	D	mg/Kg-dry	2	2/21/2022 5:59:42 PM
Lead	7.47	0.360	D	mg/Kg-dry	2	2/21/2022 5:59:42 PM
Nickel	8.74	0.901	D	mg/Kg-dry	2	2/21/2022 5:59:42 PM
Selenium	1.43	0.360	D	mg/Kg-dry	2	2/21/2022 5:59:42 PM
Silver	ND	0.270	D	mg/Kg-dry	2	2/21/2022 5:59:42 PM
Zinc	30.3	3.15	D	mg/Kg-dry	2	2/21/2022 5:59:42 PM

Total Metals by EPA Method 6020B

Batch ID: 35453 Analyst: EH

Boron	0.0495	0.00993		mg/L	1	3/21/2022 1:37:01 PM
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Sodium Adsorption Ratio

Batch ID: 35792 Analyst: WC

Sodium Adsorption Ratio (SAR)	0.0608	0		mEq/L	1	3/18/2022 1:36:00 PM
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Sample Moisture (Percent Moisture)

Batch ID: R73162 Analyst: ALB

Percent Moisture	11.9	0.500		wt%	1	2/9/2022 11:49:43 AM
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Conductivity by SM 2510B

Batch ID: R74196 Analyst: SS

Specific Conductance (Conductivity)	45.8	1.00		µS/cm	1	3/22/2022 10:30:00 AM
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pH by SM 4500H+B

Batch ID: R74155 Analyst: SS

Hydrogen Ion (pH)	9.71			pH	1	3/18/2022 11:00:00 AM
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Client: Summit Scientific

Collection Date: 1/26/2022

Project: 2201306

Lab ID: 2201553-015

Matrix: Soil

Client Sample ID: Background 1@1'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Total Metals by EPA Method 6020B

Batch ID: 35438 Analyst: EH

Arsenic	7.08	0.211	D	mg/Kg-dry	2	2/21/2022 6:02:40 PM
Barium	136	1.06	D	mg/Kg-dry	2	2/21/2022 6:02:40 PM
Cadmium	0.528	0.352	D	mg/Kg-dry	2	2/21/2022 6:02:40 PM
Copper	19.7	1.76	D	mg/Kg-dry	2	2/21/2022 6:02:40 PM
Lead	26.3	0.352	D	mg/Kg-dry	2	2/21/2022 6:02:40 PM
Nickel	14.2	0.881	D	mg/Kg-dry	2	2/21/2022 6:02:40 PM
Selenium	2.68	0.352	D	mg/Kg-dry	2	2/21/2022 6:02:40 PM
Silver	0.273	0.264	D	mg/Kg-dry	2	2/21/2022 6:02:40 PM
Zinc	81.8	3.08	D	mg/Kg-dry	2	2/21/2022 6:02:40 PM

Total Metals by EPA Method 6020B

Batch ID: 35453 Analyst: EH

Boron	0.164	0.00998		mg/L	1	3/21/2022 1:38:11 PM
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Sodium Adsorption Ratio

Batch ID: 35792 Analyst: WC

Sodium Adsorption Ratio (SAR)	0.134	0		mEq/L	1	3/18/2022 1:39:00 PM
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Sample Moisture (Percent Moisture)

Batch ID: R73434 Analyst: KJ

Percent Moisture	10.6	0.500		wt%	1	2/18/2022 2:57:33 PM
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Conductivity by SM 2510B

Batch ID: R74196 Analyst: SS

Specific Conductance (Conductivity)	31.6	1.00		µS/cm	1	3/22/2022 10:30:00 AM
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pH by SM 4500H+B

Batch ID: R74155 Analyst: SS

Hydrogen Ion (pH)	7.63			pH	1	3/18/2022 11:00:00 AM
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Client: Summit Scientific

Collection Date: 1/26/2022

Project: 2201306

Lab ID: 2201553-016

Matrix: Soil

Client Sample ID: Background 2@1'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Total Metals by EPA Method 6020B

Batch ID: 35438

Analyst: EH

Arsenic	9.18	0.219	D	mg/Kg-dry	2	2/21/2022 6:05:37 PM
Barium	182	1.09	D	mg/Kg-dry	2	2/21/2022 6:05:37 PM
Cadmium	0.389	0.365	D	mg/Kg-dry	2	2/21/2022 6:05:37 PM
Copper	18.0	1.82	D	mg/Kg-dry	2	2/21/2022 6:05:37 PM
Lead	17.0	0.365	D	mg/Kg-dry	2	2/21/2022 6:05:37 PM
Nickel	18.0	0.911	D	mg/Kg-dry	2	2/21/2022 6:05:37 PM
Selenium	2.80	0.365	D	mg/Kg-dry	2	2/21/2022 6:05:37 PM
Silver	ND	0.273	D	mg/Kg-dry	2	2/21/2022 6:05:37 PM
Zinc	67.7	3.19	D	mg/Kg-dry	2	2/21/2022 6:05:37 PM

Total Metals by EPA Method 6020B

Batch ID: 35453

Analyst: EH

Boron	0.138	0.00943		mg/L	1	3/21/2022 1:45:56 PM
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Sodium Adsorption Ratio

Batch ID: 35792

Analyst: WC

Sodium Adsorption Ratio (SAR)	0.163	0		mEq/L	1	3/18/2022 1:42:00 PM
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Sample Moisture (Percent Moisture)

Batch ID: R73434

Analyst: KJ

Percent Moisture	12.9	0.500		wt%	1	2/18/2022 2:57:33 PM
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Conductivity by SM 2510B

Batch ID: R74196

Analyst: SS

Specific Conductance (Conductivity)	41.0	1.00		µS/cm	1	3/22/2022 10:30:00 AM
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pH by SM 4500H+B

Batch ID: R74155

Analyst: SS

Hydrogen Ion (pH)	8.64			pH	1	3/18/2022 11:00:00 AM
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Client: Summit Scientific

Collection Date: 1/26/2022

Project: 2201306

Lab ID: 2201553-017

Matrix: Soil

Client Sample ID: Background 3@1'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Total Metals by EPA Method 6020B

Batch ID: 35438 Analyst: EH

Arsenic	7.98	0.220	D	mg/Kg-dry	2	2/21/2022 6:08:35 PM
Barium	172	1.10	D	mg/Kg-dry	2	2/21/2022 6:08:35 PM
Cadmium	0.470	0.366	D	mg/Kg-dry	2	2/21/2022 6:08:35 PM
Copper	17.0	1.83	D	mg/Kg-dry	2	2/21/2022 6:08:35 PM
Lead	19.6	0.366	D	mg/Kg-dry	2	2/21/2022 6:08:35 PM
Nickel	15.1	0.916	D	mg/Kg-dry	2	2/21/2022 6:08:35 PM
Selenium	2.59	0.366	D	mg/Kg-dry	2	2/21/2022 6:08:35 PM
Silver	ND	0.275	D	mg/Kg-dry	2	2/21/2022 6:08:35 PM
Zinc	66.5	3.21	D	mg/Kg-dry	2	2/21/2022 6:08:35 PM

Total Metals by EPA Method 6020B

Batch ID: 35453 Analyst: EH

Boron	0.114	0.00961		mg/L	1	3/21/2022 1:47:06 PM
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Sodium Adsorption Ratio

Batch ID: 35792 Analyst: WC

Sodium Adsorption Ratio (SAR)	0.0491	0		mEq/L	1	3/18/2022 1:46:00 PM
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Sample Moisture (Percent Moisture)

Batch ID: R73434 Analyst: KJ

Percent Moisture	15.4	0.500		wt%	1	2/18/2022 2:57:33 PM
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Conductivity by SM 2510B

Batch ID: R74196 Analyst: SS

Specific Conductance (Conductivity)	39.7	1.00		µS/cm	1	3/22/2022 10:30:00 AM
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pH by SM 4500H+B

Batch ID: R74155 Analyst: SS

Hydrogen Ion (pH)	9.24			pH	1	3/18/2022 11:00:00 AM
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Work Order: 2201553
CLIENT: Summit Scientific
Project: 2201306

QC SUMMARY REPORT

Conductivity by SM 2510B

Sample ID: MB-R74165		SampType: MBLK			Units: µS/cm		Prep Date: 3/21/2022			RunNo: 74165		
Client ID: MBLKW		Batch ID: R74165			Analysis Date: 3/21/2022			SeqNo: 1520977				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Specific Conductance (Conductivity) ND 1.00

Sample ID: LCS-R74165		SampType: LCS			Units: µS/cm		Prep Date: 3/21/2022			RunNo: 74165		
Client ID: LCSW		Batch ID: R74165			Analysis Date: 3/21/2022			SeqNo: 1520978				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Specific Conductance (Conductivity) 1,040 1.00 1,000 0 104 90 110

Sample ID: LCSD-R74165		SampType: LCSD			Units: µS/cm		Prep Date: 3/21/2022			RunNo: 74165		
Client ID: LCSW02		Batch ID: R74165			Analysis Date: 3/21/2022			SeqNo: 1520979				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Specific Conductance (Conductivity) 1,040 1.00 1,000 0 104 90 110 1,042 0.192 20

Sample ID: 2202165-002ADUP		SampType: DUP			Units: µS/cm		Prep Date: 3/21/2022			RunNo: 74165		
Client ID: BATCH		Batch ID: R74165			Analysis Date: 3/21/2022			SeqNo: 1520981				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Specific Conductance (Conductivity) 11.5 1.00 10.00 14.0 20

Sample ID: MB-R74196		SampType: MBLK			Units: µS/cm		Prep Date: 3/22/2022			RunNo: 74196		
Client ID: MBLKW		Batch ID: R74196			Analysis Date: 3/22/2022			SeqNo: 1521656				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Specific Conductance (Conductivity) ND 1.00

Work Order: 2201553
CLIENT: Summit Scientific
Project: 2201306

QC SUMMARY REPORT

Conductivity by SM 2510B

Sample ID: LCS-R74196		SampType: LCS			Units: µS/cm		Prep Date: 3/22/2022			RunNo: 74196		
Client ID: LCSW		Batch ID: R74196			Analysis Date: 3/22/2022			SeqNo: 1521657				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Specific Conductance (Conductivity)	1,040	1.00	1,000	0	104	90	110				
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Sample ID: LCSD-R74196		SampType: LCSD			Units: µS/cm		Prep Date: 3/22/2022			RunNo: 74196		
Client ID: LCSW02		Batch ID: R74196			Analysis Date: 3/22/2022					SeqNo: 1521658		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Specific Conductance (Conductivity)	1,040	1.00	1,000	0	104	90	110	1,038	0.385	20	
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Sample ID: 2201553-009ADUP		SampType: DUP			Units: µS/cm		Prep Date: 3/22/2022			RunNo: 74196		
Client ID: SW-5@5'		Batch ID: R74196			Analysis Date: 3/22/2022			SeqNo: 1521660				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Specific Conductance (Conductivity)	39.5	1.00						40.20	1.76	20	
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Work Order: 2201553
CLIENT: Summit Scientific
Project: 2201306

QC SUMMARY REPORT

pH by SM 4500H+B

Sample ID: MB-R74155		SampType: MBLK			Units: pH		Prep Date: 3/18/2022			RunNo: 74155		
Client ID: MBLKW		Batch ID: R74155						Analysis Date: 3/18/2022			SeqNo: 1520783	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Hydrogen Ion (pH) 7.69

Sample ID: LCS-R74155		SampType: LCS			Units: pH		Prep Date: 3/18/2022			RunNo: 74155		
Client ID: LCSW		Batch ID: R74155			Analysis Date: 3/18/2022			SeqNo: 1520784				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Hydrogen Ion (pH) 7.02 7.000 0 100 95 105

Sample ID: 2201553-009ADUP		SampType: DUP			Units: pH		Prep Date: 3/18/2022			RunNo: 74155		
Client ID: SW-5@5'		Batch ID: R74155			Analysis Date: 3/18/2022			SeqNo: 1520786				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Hydrogen Ion (pH) 9.55 9.490 0.630 10

Sample ID: MB-R74163		SampType: MBLK			Units: pH		Prep Date: 3/21/2022			RunNo: 74163		
Client ID: MBLKW		Batch ID: R74163			Analysis Date: 3/21/2022			SeqNo: 1520934				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Hydrogen Ion (pH) 7.61

Sample ID: LCS-R74163		SampType: LCS			Units: pH		Prep Date: 3/21/2022			RunNo: 74163		
Client ID: LCSW		Batch ID: R74163			Analysis Date: 3/21/2022			SeqNo: 1520935				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Hydrogen Ion (pH) 6.97 7.000 0 99.6 95 105

Work Order: 2201553
CLIENT: Summit Scientific
Project: 2201306

QC SUMMARY REPORT

pH by SM 4500H+B

Sample ID: LCSD-R74163		SampType: LCSD			Units: pH Units		Prep Date: 3/21/2022			RunNo: 74163		
Client ID: LCSW02		Batch ID: R74163			Analysis Date: 3/21/2022			SeqNo: 1520936				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Hydrogen Ion (pH)	6.97		7.000	0	99.6	95	105	6.970	0	10	
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Sample ID: 2202165-002ADUP		SampType: DUP			Units: pH		Prep Date: 3/21/2022			RunNo: 74163		
Client ID: BATCH		Batch ID: R74163			Analysis Date: 3/21/2022			SeqNo: 1520938				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Hydrogen Ion (pH)	7.14							7.180	0.559	10	
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Work Order: 2201553
CLIENT: Summit Scientific
Project: 2201306

QC SUMMARY REPORT

Total Metals by EPA Method 6020B

Sample ID: MB-35438		SampType: MBLK			Units: mg/Kg		Prep Date: 2/18/2022			RunNo: 73460		
Client ID: MBLKS		Batch ID: 35438			Analysis Date: 2/21/2022					SeqNo: 1500944		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.0952									
Barium	ND	0.476									
Cadmium	ND	0.159									
Copper	ND	0.794									
Lead	ND	0.159									
Nickel	ND	0.397									
Selenium	ND	0.159									
Silver	ND	0.119									
Zinc	ND	1.39									

Sample ID: LCS-35438		SampType: LCS			Units: mg/Kg		Prep Date: 2/18/2022			RunNo: 73460		
Client ID: LCSS		Batch ID: 35438			Analysis Date: 2/21/2022			SeqNo: 1500945				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	36.7	0.0945	39.37	0	93.3	80	120				
Barium	43.0	0.472	39.37	0	109	80	120				
Cadmium	1.91	0.157	1.969	0	97.1	80	120				
Copper	38.2	0.787	39.37	0	97.0	80	120				
Lead	20.0	0.157	19.69	0	102	80	120				
Nickel	37.7	0.394	39.37	0	95.7	80	120				
Selenium	3.84	0.157	3.937	0	97.6	80	120				
Silver	2.06	0.118	1.969	0	105	80	120				
Zinc	36.6	1.38	39.37	0	93.0	80	120				

Sample ID: 2202408-001AMS		SampType: MS			Units: mg/Kg-dry		Prep Date: 2/18/2022		RunNo: 73460		
Client ID: BATCH		Batch ID: 35438			Analysis Date: 2/21/2022				SeqNo: 1500948		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	47.6	0.107	44.57	3.660	98.7	75	125				
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Work Order: 2201553
CLIENT: Summit Scientific
Project: 2201306

QC SUMMARY REPORT

Total Metals by EPA Method 6020B

Sample ID: 2202408-001AMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 2/18/2022			RunNo: 73460		
Client ID: BATCH		Batch ID: 35438					Analysis Date: 2/21/2022			SeqNo: 1500948	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	156	0.535	44.57	107.3	110	75	125				
Cadmium	2.44	0.178	2.228	0.2440	98.5	75	125				
Copper	63.5	0.891	44.57	19.76	98.1	75	125				
Lead	124	0.178	22.28	84.93	177	75	125				ES
Nickel	83.5	0.446	44.57	41.83	93.6	75	125				
Selenium	5.32	0.178	4.457	1.042	96.0	75	125				
Silver	2.05	0.134	2.228	0	92.0	75	125				
Zinc	97.1	1.56	44.57	52.18	101	75	125				

NOTES:

S - Analyte concentration was too high for accurate spike recovery(ies).

Sample ID: 2202408-001AMSD		SampType: MSD		Units: mg/Kg-dry		Prep Date: 2/18/2022			RunNo: 73460		
Client ID: BATCH		Batch ID: 35438		Analysis Date: 2/21/2022					SeqNo: 1500949		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	52.4	0.106	44.22	3.660	110	75	125	47.64	9.55	20	S
Barium	188	0.531	44.22	107.3	184	75	125	156.2	18.7	20	
Cadmium	2.58	0.177	2.211	0.2440	106	75	125	2.440	5.61	20	
Copper	69.3	0.884	44.22	19.76	112	75	125	63.49	8.68	20	ES
Lead	151	0.177	22.11	84.93	297	75	125	124.4	19.1	20	
Nickel	93.7	0.442	44.22	41.83	117	75	125	83.52	11.4	20	
Selenium	5.28	0.177	4.422	1.042	95.9	75	125	5.319	0.653	20	S
Silver	2.11	0.133	2.211	0	95.6	75	125	2.051	2.97	20	
Zinc	109	1.55	44.22	52.18	128	75	125	97.14	11.4	20	

NOTES:

S - Analyte concentration was too high for accurate spike recovery(ies).

Work Order: 2201553
CLIENT: Summit Scientific
Project: 2201306

QC SUMMARY REPORT

Total Metals by EPA Method 6020B

Sample ID: MB-35429		SampType: MBLK		Units: mg/Kg		Prep Date: 2/18/2022			RunNo: 73518			
Client ID: MBLKS		Batch ID: 35429					Analysis Date: 2/22/2022			SeqNo: 1502391		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Arsenic	ND	0.0945									
Barium	ND	0.472									
Cadmium	ND	0.157									
Copper	ND	0.787									
Lead	ND	0.157									
Nickel	ND	0.394									
Selenium	ND	0.157									
Silver	ND	0.118									
Zinc	ND	1.38									

Sample ID: 2201545-006AMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 2/18/2022			RunNo: 73518		
Client ID: BATCH		Batch ID: 35429					Analysis Date: 2/22/2022			SeqNo: 1502397	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	49.2	0.103	42.83	2.470	109	75	125				
Barium	132	0.514	42.83	85.80	108	75	125				
Cadmium	2.46	0.171	2.142	0.09483	111	75	125				
Copper	49.7	0.857	42.83	6.536	101	75	125				
Lead	27.1	0.171	21.42	5.017	103	75	125				
Nickel	51.7	0.428	42.83	7.327	104	75	125				
Selenium	5.29	0.171	4.283	1.393	90.9	75	125				
Silver	2.20	0.129	2.142	0	103	75	125				
Zinc	65.1	1.50	42.83	23.91	96.2	75	125				

Sample ID: 2201545-006AMSD		SampType: MSD		Units: mg/Kg-dry		Prep Date: 2/18/2022			RunNo: 73518		
Client ID: BATCH		Batch ID: 35429					Analysis Date: 2/22/2022			SeqNo: 1502398	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	46.7	0.104	43.17	2.470	103	75	125	49.18	5.13	20	
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Work Order: 2201553
CLIENT: Summit Scientific
Project: 2201306

QC SUMMARY REPORT

Total Metals by EPA Method 6020B

Sample ID: 2201545-006AMSD		SampType: MSD		Units: mg/Kg-dry		Prep Date: 2/18/2022			RunNo: 73518		
Client ID: BATCH		Batch ID: 35429		Analysis Date: 2/22/2022					SeqNo: 1502398		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	119	0.518	43.17	85.80	77.6	75	125	132.1	10.2	20	
Cadmium	2.42	0.173	2.159	0.09483	107	75	125	2.464	2.00	20	
Copper	47.1	0.863	43.17	6.536	93.9	75	125	49.66	5.31	20	
Lead	25.7	0.173	21.59	5.017	95.9	75	125	27.14	5.35	20	
Nickel	48.2	0.432	43.17	7.327	94.6	75	125	51.66	7.00	20	
Selenium	5.48	0.173	4.317	1.393	94.8	75	125	5.286	3.69	20	
Silver	2.25	0.130	2.159	0	104	75	125	2.196	2.49	20	
Zinc	62.2	1.51	43.17	23.91	88.7	75	125	65.10	4.53	20	

Sample ID: LCS-35429		SampType: LCS		Units: mg/Kg		Prep Date: 2/18/2022			RunNo: 73518		
Client ID: LCSS		Batch ID: 35429					Analysis Date: 2/28/2022			SeqNo: 1505771	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	36.6	0.0930	38.76	0	94.3	80	120				
Barium	38.3	0.465	38.76	0	98.8	80	120				
Cadmium	1.87	0.155	1.938	0	96.3	80	120				
Copper	36.5	0.775	38.76	0	94.1	80	120				
Lead	18.9	0.155	19.38	0	97.6	80	120				
Nickel	38.8	0.388	38.76	0	100	80	120				
Selenium	3.58	0.155	3.876	0	92.3	80	120				
Silver	1.98	0.116	1.938	0	102	80	120				
Zinc	35.3	1.36	38.76	0	91.1	80	120				

Sample ID: MB-35453		SampType: MBLK		Units: mg/L		Prep Date: 2/21/2022			RunNo: 74150		
Client ID: MBLKS		Batch ID: 35453				Analysis Date: 3/21/2022			SeqNo: 1520656		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	ND	0.0100									

Work Order: 2201553
CLIENT: Summit Scientific
Project: 2201306

QC SUMMARY REPORT

Total Metals by EPA Method 6020B

Sample ID: LCS-35453		SampType: LCS			Units: mg/L		Prep Date: 2/21/2022			RunNo: 74150		
Client ID: LCSS		Batch ID: 35453			Analysis Date: 3/21/2022			SeqNo: 1520657				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Boron	5.40	0.0100	5.000	0	108	80	120				
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Sample ID: 2201553-005BDUP		SampType: DUP			Units: mg/L		Prep Date: 2/21/2022			RunNo: 74150		
Client ID: SW-1 @5'		Batch ID: 35453			Analysis Date: 3/21/2022			SeqNo: 1520659				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Boron	0.234	0.00973						0.2499	6.48	20	
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Sample ID: 2201553-005BMS		SampType: MS			Units: mg/L		Prep Date: 2/21/2022			RunNo: 74150		
Client ID: SW-1 @5'		Batch ID: 35453			Analysis Date: 3/21/2022			SeqNo: 1520660				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Boron	6.38	0.0500	4.995	0.2499	123	75	125				
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Sample ID: 2201553-005BMSD		SampType: MSD			Units: mg/L		Prep Date: 2/21/2022			RunNo: 74150		
Client ID: SW-1 @5'		Batch ID: 35453			Analysis Date: 3/21/2022			SeqNo: 1520661				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Boron	6.37	0.0500	4.995	0.2499	123	75	125	6.380	0.121	20	
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Work Order: 2201553
CLIENT: Summit Scientific
Project: 2201306

QC SUMMARY REPORT

Sodium Adsorption Ratio

Sample ID: MB-35792		SampType: MBLK		Units: µg/L		Prep Date: 3/19/2022			RunNo: 74129			
Client ID: MBLKW		Batch ID: 35792					Analysis Date: 3/18/2022			SeqNo: 1519617		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Calcium	ND	200									
Magnesium	ND	100									
Sodium	ND	200									

Sample ID: 2201553-009ADUP		SampType: DUP		Units: mEq/L		Prep Date: 3/19/2022			RunNo: 74129			
Client ID: SW-5@5'		Batch ID: 35792					Analysis Date: 3/18/2022			SeqNo: 1519737		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Sodium Adsorption Ratio (SAR)	0.0581	0						0.06190	6.33	30	
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Sample ID: MB-35795		SampType: MBLK			Units: µg/L		Prep Date: 3/19/2022			RunNo: 74142		
Client ID: MBLKW		Batch ID: 35795			Analysis Date: 3/18/2022					SeqNo: 1520327		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Calcium	ND	200									
Magnesium	ND	100									
Sodium	ND	200									

Sample ID: 2202165-002ADUP		SampType: DUP			Units: mEq/L		Prep Date: 3/19/2022			RunNo: 74142		
Client ID: BATCH		Batch ID: 35795			Analysis Date: 3/18/2022			SeqNo: 1520381				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Sodium Adsorption Ratio (SAR)	0.0350	0						0.01200	97.9	30	R
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NOTES:

R - High RPD observed.



Work Order: 2201553
CLIENT: Summit Scientific
Project: 2201306

QC SUMMARY REPORT

Sodium Adsorption Ratio

Sample ID: LCS-35795		SampType: LCS			Units: µg/L		Prep Date: 3/19/2022			RunNo: 74142		
Client ID: LCSW		Batch ID: 35795			Analysis Date: 3/21/2022				SeqNo: 1520552			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Calcium	949	200	1,000	0	94.9	50	150				
Magnesium	945	100	1,000	0	94.5	50	150				
Sodium	1,020	200	1,000	0	102	50	150				

Sample ID: LCS-35792		SampType: LCS			Units: µg/L		Prep Date: 3/19/2022			RunNo: 74129		
Client ID: LCSW		Batch ID: 35792			Analysis Date: 3/21/2022			SeqNo: 1520511				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Calcium	938	200	1,000	0	93.8	50	150				
Magnesium	974	100	1,000	0	97.4	50	150				
Sodium	1,010	200	1,000	0	101	50	150				

Client Name: **SUMSCI**

Work Order Number: **2201553**

Logged by: **Gabrielle Coeulle**

Date Received: **1/31/2022 10:07:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☒ No ☐
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
6. Was an attempt made to cool the samples? Yes ☐ No ☒ NA ☐
7. Were all items received at a temperature of >2°C to 6°C * Unknown prior to receipt Yes ☐ No ☐ NA ☒
8. Sample(s) in proper container(s)? Yes ☒ No ☐
9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
10. Are samples properly preserved? Yes ☒ No ☐
11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
14. Does paperwork match bottle labels? Yes ☒ No ☐
15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
16. Is it clear what analyses were requested? Yes ☒ No ☐
17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

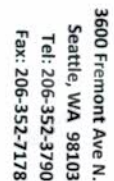
Client Instructions:

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	10.9

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Date: 1.27.22 Page: 1 of 1

2201553

Special Remarks:

Summit Scientific
client:

Address: 4653 Table Mountain Drive

City, State, Zip: Golden, CO. 80403

Telephone: 303-277-9310

Fax:	
PM Email:	mpremier@s2scientific.com, pshrewsbury@s2scientific.com

Sample Disposal: ☐ Return to client ☒ Disposal by lab (after 30 days)

[illegible]

****Metals (Circle):**

Individual:

maqu. A = Air, AQ = Aqueous B = Soil, U = Urine, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

Turn-around Time:

*** Anions (Circle): ☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ O-Phosphate ☐ Fluoride ☐ Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished

Date/Time

2

Relinquished

Date/Time

Received

10

1000

1



Fremont
ANALYTICAL

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 1.27.22

Page: 1 of 1

Laboratory Project No (Internal): 2201553

Project Name: 2201304

Special Remarks:

Client: Summit Scientific

Project No:

Address: 4653 Table Mountain Drive

Collected by:

City, State, Zip: Golden, CO. 80403

Location:

Telephone: 303-277-9310

Report To (PM):

Sample Disposal: ☐ Return to client ☒ Disposal by lab (after 30 days)

Fax: PM Email: mpremer@ss2scientific.com, pshrewsbury@ss2scientific.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Comments
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1 SW-7051 1-26-22 1240

2 SW-8051 1150

3 SW-9051 1155

4 SW-10051 1230

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6

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9

10

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle):

Individual:

***Anions (Circle): ☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ O-Phosphate ☐ Fluoride ☐ Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished Date/Time 1.27.22 955

Received Date/Time 1/31/22 10:07

Turn-around Time: ☒ Standard ☐ 3 Day ☐ 2 Day ☐ Next Day ☐ Same Day (specify)



Fremont
Analytical

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Client: Summit Scientific

Address: 4653 Table Mountain Drive

City, State, Zip: Golden, CO. 80403

Telephone: 303-277-9310

Fax: Report To (PM): mpremer@ss2scientific.com, pshrewsbury@ss2scientific.com

Date: 1.27.22 Page: 1 of 1

Project Name: 2201306

Project No:

Collected by:

Location:

Report To (PM):

Laboratory Project No (Internal): 2201553

Special Remarks: samples/edits added per MP 2/18/22 -cg

Sample Disposal: ☐ Return to client ☒ Disposal by lab (after 30 days)

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Comments
1 BH-10S1	1.26.22	1140	S	✓✓✓
2 BH-20@101		1245		By Hot Water Soluble
3 BH-30@S1		1200		STREPT by Saturated
4 BH-40@S1		1225		Page
5 SW-10S1		1145		Metals: As, Ba, Cd, Cu, Pb, Ni,
6 SW-20S1		1205		Se, Ag, Zn
7 SW-30S1		1220		for all
8 SW-40S1		1235		samples
9 SW-50S1		1215		
10 SW-60S1		1210		

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**Metals (Circle):

***Anions (Circle): ☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ Iodide ☐ Phosphate ☐ Fluoride ☐ Nitrate+Nitrite

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Relinquished

Date/Time: 1.27.22 935

Received

Date/Time

1/31/22 10:07

Relinquished

Date/Time

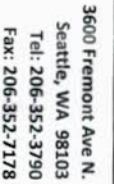
Received

Date/Time

x

x

Turn-around Time: ☒ Standard ☐ 3 Day ☐ 2 Day ☐ Next Day ☐ Same Day (specify)



Date: 1.27.22

Project Name: 2201304

Page: 1 of 1

Laboratory Project No (internal):

22015513

Special Remarks:

Project No:

Collected by:

Location:

Report To (PM):

Sample Disposal: ☐ Return to client ☒ Disposal by lab (after 30 days)

PM Email: mpremier@s2scientific.com, psbrewsbury@s2scientific.com

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle):

Individual:

Turn-around Time:

****Metals (Circle):** *Individual:*

****Anions (Circle):** ☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ O-Phosphate ☐ Fluoride ☐ Nitrate+Nitrite

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Relinquished	Date/Time	Received	Date/Time
	1/27/97		

955
Diatino Blvd 1/3/22 10:07

Relinquished	Date/Time	Received	Date/Time
		<i>[Signature]</i>	7-20-98

1. $\frac{1}{2}$ of the total area is shaded.

COC 1.2 - 2.22.17

www.fremontanalytical.com



Fremont
ANALYTICAL

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 1.27.22 Page: 1 of 1

Laboratory Project No (Internal): 2201553

Project Name: 2201304

Special Remarks:

Client: Summit Scientific

Project No:

Address: 4653 Table Mountain Drive

Collected by:

City, State, Zip: Golden, CO. 80403

Location:

Telephone: 303-277-9310

Report To (PM):

Sample Disposal: ☐ Return to client ☒ Disposal by lab (after 30 days)

Fax:

PM Email: mpremer@ss2scientific.com, pshrewsbury@ss2scientific.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Comments
1 SW-7@5'	1/26/22	1240	SW	
2 SW-8@5'		1150	SW	
3 SW-9@5'		1155	SW	
4 SW-10@5'		1230	SW	
5 Background 1@1'	1/26/22		SW	
6 Background 2@1'	1/26/22		SW	
7 Background 3@1'	1/26/22		SW	
8				
9				
10				

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle):

Individual:

***Anions (Circle): ☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ O-Phosphate ☐ Fluoride ☐ Nitrate+Nitrite

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Relinquished

Date/Time

1.27.22 955

Received

Date/Time

1/31/22 10:07

Relinquished

Date/Time

Received

Date/Time

Turn-around Time:

☒ Standard

☐ 3 Day

☐ 2 Day

☐ Next Day

☐ Same Day (specify)



Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - Mosler 1A Confirmation Samples
Project Number: Mosler 1A
Project Manager: Jennifer Galles

Reported:
03/25/22 12:31

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
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