

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 09, 2022

Jennifer Galles

Marcom LLC

1811 East Mulberry St.

Fort Collins, CO 80524

RE: KPK - RMF

Work Order #2205324

Enclosed are the results of analyses for samples received by Summit Scientific on 05/19/22 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury

President



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

Project: KPK - RMF

Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/09/22 13:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-8@1'	2205324-01	Soil	05/19/22 09:10	05/19/22 16:00
SW-9@5'	2205324-02	Soil	05/19/22 09:15	05/19/22 16:00
SW-10@5'	2205324-03	Soil	05/19/22 09:20	05/19/22 16:00
SW-11@5'	2205324-04	Soil	05/19/22 09:25	05/19/22 16:00

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Summit Scientific

2205324

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 1

Client: KP Kaufman (MarCom) Project Manager: Jennifer Guller
 Address: 1675 Broadway E-Mail: pkma@contractor@marcomllc.net
 City/State/Zip: Denver, CO 80202
 Phone: 303.825.4822 Project Name: PNLF
 Sampler Name: Blake H. Harrison C. Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Full Table 915							
1	SW-8@1'	5.14.22	0910	3			X			X										
2	SW-9@5'		0915	1			X			X										
3	SW-10@5'		0920	1			X			X										
4	SW-11@5'		0925	1			X			X										
5																				
6																				
7																				
8																				
9																				
10																				

Relinquished by: <u>PK</u> Date/Time: <u>5.14.22 1330</u>	Received by: <u>[Signature]</u> Date/Time: <u>5/14/22 1600</u>	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/>	Notes:
Relinquished by: _____ Date/Time: _____	Received by: _____ Date/Time: _____		
Temperature Upon Receipt: <u>S.O</u>	Corrected Temperature <u>S.O</u>	Sample Integrity: Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
IR gun correction: <u>0</u>	IR gun #: <u>1</u>		

U2

Sample Receipt Checklist

S2 Work Order# 2205324

Client: Kp Kauffman (marcom) Client Project ID: RMF

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

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Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6 °C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	-			on ICE
Were all samples received intact ⁽¹⁾ ?	-			
Was adequate sample volume provided ⁽¹⁾ ?	-			
If custody seals are present, are they intact ⁽¹⁾ ?	-			
Are samples due within 48 hours present?		-		
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen			-	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	-			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	-			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	-			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	-			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			-	
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.			-	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			-	
If dissolved metals are requested, were samples field filtered?			-	
Additional Comments (if any):				

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


Custodian Printed Name

5.19.22
Date/Time



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

Project: KPK - RMF

Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/09/22 13:41

SW-8@1'
2205324-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/19/22 09:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFE0518	05/24/22	05/24/22	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: **05/19/22 09:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0434	108 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0412	103 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0403	101 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/19/22 09:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFE0520	05/24/22	05/24/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **05/19/22 09:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	13.3	106 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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 Fort Collins CO, 80524

Project: KPK - RMF

Project Number: [none]
 Project Manager: Jennifer Galles

Reported:
 06/09/22 13:41

SW-8@1'
2205324-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/19/22 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFE0488	05/23/22	05/24/22	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: **05/19/22 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0226	67.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0222	66.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/19/22 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.566	0.0100	mg/L	1	BFE0661	05/27/22	05/31/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/19/22 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: KPK - RMF

Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/09/22 13:41

SW-8@1'
2205324-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.49	0.234	mg/kg dry	1	BFF0105	06/03/22	06/07/22	EPA 6020B	
Barium	164	0.468	"	"	"	"	"	"	
Cadmium	0.272	0.234	"	"	"	"	"	"	
Copper	13.2	0.468	"	"	"	"	"	"	
Lead	11.4	0.234	"	"	"	"	"	"	
Nickel	14.8	0.468	"	"	"	"	"	"	
Selenium	0.962	0.304	"	"	"	"	"	"	
Silver	0.0869	0.0234	"	"	"	"	"	"	
Zinc	42.8	0.468	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/19/22 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0013	06/01/22	06/01/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **05/19/22 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	4400	0.0585	mg/L dry	1	BFE0636	05/27/22	06/01/22	EPA 6020B	
Magnesium	443	0.0585	"	"	"	"	"	"	
Sodium	2550	0.0585	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/19/22 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.80	0.00100	units	1	BFF0008	06/01/22	06/01/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/19/22 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Project Manager: Jennifer Galles

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SW-8@1'
2205324-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	85.4	%	1	BFE0673	05/28/22	05/29/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/19/22 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	6.35	0.0100	mmhos/cm	1	BFE0637	05/27/22	05/30/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **05/19/22 09:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.23		pH Units	1	BFE0638	05/27/22	05/30/22	EPA 9045D	

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Project: KPK - RMF

Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/09/22 13:41

SW-9@5'
2205324-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/19/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFE0518	05/24/22	05/24/22	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: **05/19/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0418	105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0414	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0390	97.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/19/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFE0520	05/24/22	05/24/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/19/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	13.1	105 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Number: [none]
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Reported:
06/09/22 13:41

SW-9@5'
2205324-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/19/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFE0488	05/23/22	05/24/22	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: **05/19/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0220	65.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0221	66.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/19/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.679	0.0100	mg/L	1	BFE0661	05/27/22	05/31/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/19/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - RMF

Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/09/22 13:41

SW-9@5'
2205324-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.45	0.240	mg/kg dry	1	BFF0105	06/03/22	06/07/22	EPA 6020B
Barium	112	0.480	"	"	"	"	"	"
Cadmium	0.247	0.240	"	"	"	"	"	"
Copper	11.6	0.480	"	"	"	"	"	"
Lead	9.74	0.240	"	"	"	"	"	"
Nickel	11.6	0.480	"	"	"	"	"	"
Selenium	0.738	0.312	"	"	"	"	"	"
Silver	0.0574	0.0240	"	"	"	"	"	"
Zinc	37.1	0.480	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/19/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0013	06/01/22	06/01/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **05/19/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	6170	0.0600	mg/L dry	1	BFE0636	05/27/22	06/01/22	EPA 6020B	
Magnesium	614	0.0600	"	"	"	"	"	"	
Sodium	1880	0.0600	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/19/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.11	0.00100	units	1	BFF0008	06/01/22	06/01/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/19/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Marcom LLC
 1811 East Mulberry St.
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Project: KPK - RMF
 Project Number: [none]
 Project Manager: Jennifer Galles

Reported:
 06/09/22 13:41

SW-9@5'
2205324-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.3	%	1	BFE0673	05/28/22	05/29/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/19/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.65	0.0100	mmhos/cm	1	BFE0637	05/27/22	05/30/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **05/19/22 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.15		pH Units	1	BFE0638	05/27/22	05/30/22	EPA 9045D	

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

Project: KPK - RMF

Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/09/22 13:41

SW-10@5'
2205324-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/19/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFE0518	05/24/22	05/24/22	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	0.0057	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/19/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0418	105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0415	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0395	98.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/19/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFE0520	05/24/22	05/24/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/19/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.9	103 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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

Project: KPK - RMF

Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/09/22 13:41

SW-10@5'
2205324-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/19/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFE0488	05/23/22	05/24/22	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: **05/19/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0201	60.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0191	57.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/19/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.504	0.0100	mg/L	1	BFE0661	05/27/22	05/31/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/19/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fort Collins CO, 80524

Project: KPK - RMF

Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/09/22 13:41

SW-10@5'
2205324-03 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	20.3	0.232	mg/kg dry	1	BFF0105	06/03/22	06/07/22	EPA 6020B	
Barium	33.8	0.465	"	"	"	"	"	"	
Cadmium	0.362	0.232	"	"	"	"	"	"	
Copper	18.9	0.465	"	"	"	"	"	"	
Lead	19.2	0.232	"	"	"	"	"	"	
Nickel	12.5	0.465	"	"	"	"	"	"	
Selenium	0.818	0.302	"	"	"	"	"	"	
Silver	0.0492	0.0232	"	"	"	"	"	"	
Zinc	74.7	0.465	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/19/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0013	06/01/22	06/01/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **05/19/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	5220	0.0581	mg/L dry	1	BFE0636	05/27/22	06/01/22	EPA 6020B	
Magnesium	423	0.0581	"	"	"	"	"	"	
Sodium	1230	0.0581	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/19/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.40	0.00100	units	1	BFF0008	06/01/22	06/01/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/19/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: KPK - RMF

Project Number: [none]
 Project Manager: Jennifer Galles

Reported:
 06/09/22 13:41

SW-10@5'
2205324-03 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	86.1	%	1	BFE0673	05/28/22	05/29/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/19/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.60	0.0100	mmhos/cm	1	BFE0637	05/27/22	05/30/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **05/19/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.06		pH Units	1	BFE0638	05/27/22	05/30/22	EPA 9045D	

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Project: KPK - RMF

Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/09/22 13:41

SW-11@5'
2205324-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/19/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFE0518	05/24/22	05/24/22	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: **05/19/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0420	105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0421	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/19/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFE0520	05/24/22	05/24/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/19/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.2	113 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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

Project: KPK - RMF

Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/09/22 13:41

SW-11@5'
2205324-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/19/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFE0488	05/23/22	05/24/22	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: **05/19/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0230	68.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0243	72.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/19/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.835	0.0100	mg/L	1	BFE0661	05/27/22	05/31/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/19/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Marcom LLC
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 Fort Collins CO, 80524

Project: KPK - RMF

Project Number: [none]
 Project Manager: Jennifer Galles

Reported:
 06/09/22 13:41

SW-11@5'
2205324-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	12.2	0.236	mg/kg dry	1	BFF0105	06/03/22	06/07/22	EPA 6020B
Barium	29.7	0.471	"	"	"	"	"	"
Cadmium	ND	0.236	"	"	"	"	"	"
Copper	16.2	0.471	"	"	"	"	"	"
Lead	14.6	0.236	"	"	"	"	"	"
Nickel	11.9	0.471	"	"	"	"	"	"
Selenium	0.852	0.306	"	"	"	"	"	"
Silver	0.0317	0.0236	"	"	"	"	"	"
Zinc	47.9	0.471	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/19/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFF0013	06/01/22	06/01/22	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **05/19/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	937	0.0589	mg/L dry	1	BFE0636	05/27/22	06/01/22	EPA 6020B	
Magnesium	230	0.0589	"	"	"	"	"	"	
Sodium	748	0.0589	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/19/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.67	0.00100	units	1	BFF0008	06/01/22	06/01/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/19/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 1811 East Mulberry St.
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Project: KPK - RMF

Project Number: [none]
 Project Manager: Jennifer Galles

Reported:
 06/09/22 13:41

SW-11@5'
2205324-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	84.9	%	1	BFE0673	05/28/22	05/29/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/19/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.26	0.0100	mmhos/cm	1	BFE0637	05/27/22	05/30/22	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **05/19/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.15		pH Units	1	BFE0638	05/27/22	05/30/22	EPA 9045D	

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1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - RMF

Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/09/22 13:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFE0518 - EPA 5030 Soil MS

Blank (BFE0518-BLK1)

Prepared & Analyzed: 05/24/22

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	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0409		"	0.0400		102	50-150				
<i>Surrogate: Toluene-d8</i>	0.0420		"	0.0400		105	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0399		"	0.0400		99.7	50-150				

LCS (BFE0518-BS1)

Prepared & Analyzed: 05/24/22

Benzene	0.0670	0.0020	mg/kg	0.0750		89.4	70-130				
Toluene	0.0639	0.0050	"	0.0750		85.2	70-130				
Ethylbenzene	0.0603	0.0050	"	0.0750		80.4	70-130				
m,p-Xylene	0.151	0.010	"	0.150		100	70-130				
o-Xylene	0.0800	0.0050	"	0.0750		107	70-130				
1,2,4-Trimethylbenzene	0.0605	0.0050	"	0.0750		80.7	70-130				
1,3,5-Trimethylbenzene	0.0664	0.0050	"	0.0750		88.5	70-130				
Naphthalene	0.0724	0.0038	"	0.0750		96.5	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0351		"	0.0400		87.8	50-150				
<i>Surrogate: Toluene-d8</i>	0.0416		"	0.0400		104	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0382		"	0.0400		95.4	50-150				

Matrix Spike (BFE0518-MS1)

Source: 2205324-01

Prepared & Analyzed: 05/24/22

Benzene	0.0795	0.0020	mg/kg	0.0750	ND	106	70-130				
Toluene	0.0843	0.0050	"	0.0750	ND	112	70-130				
Ethylbenzene	0.0797	0.0050	"	0.0750	ND	106	70-130				
m,p-Xylene	0.163	0.010	"	0.150	ND	109	70-130				
o-Xylene	0.0764	0.0050	"	0.0750	ND	102	70-130				
1,2,4-Trimethylbenzene	0.0795	0.0050	"	0.0750	ND	106	70-130				
1,3,5-Trimethylbenzene	0.0801	0.0050	"	0.0750	ND	107	70-130				
Naphthalene	0.0733	0.0038	"	0.0750	ND	97.7	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0428		"	0.0400		107	50-150				
<i>Surrogate: Toluene-d8</i>	0.0422		"	0.0400		105	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0400		"	0.0400		99.9	50-150				

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 1811 East Mulberry St.
 Fort Collins CO, 80524

Project: KPK - RMF

Project Number: [none]
 Project Manager: Jennifer Galles

Reported:
 06/09/22 13:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFE0518 - EPA 5030 Soil MS

Matrix Spike Dup (BFE0518-MSD1)	Source: 2205324-01			Prepared & Analyzed: 05/24/22						
Benzene	0.0751	0.0020	mg/kg	0.0750	ND	100	70-130	5.67	30	
Toluene	0.0778	0.0050	"	0.0750	ND	104	70-130	7.96	30	
Ethylbenzene	0.0759	0.0050	"	0.0750	ND	101	70-130	4.90	30	
m,p-Xylene	0.154	0.010	"	0.150	ND	103	70-130	5.78	30	
o-Xylene	0.0731	0.0050	"	0.0750	ND	97.5	70-130	4.29	30	
1,2,4-Trimethylbenzene	0.0744	0.0050	"	0.0750	ND	99.2	70-130	6.59	30	
1,3,5-Trimethylbenzene	0.0757	0.0050	"	0.0750	ND	101	70-130	5.70	30	
Naphthalene	0.0953	0.0038	"	0.0750	ND	127	70-130	26.2	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0422</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0419</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0397</i>		<i>"</i>	<i>0.0400</i>		<i>99.3</i>	<i>50-150</i>			

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Project: KPK - RMF
 Project Number: [none]
 Project Manager: Jennifer Galles

Reported:
 06/09/22 13:41

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFE0520 - EPA 3550A

Blank (BFE0520-BLK1)

Prepared & Analyzed: 05/24/22

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

LCS (BFE0520-BS1)

Prepared & Analyzed: 05/24/22

C10-C28 (DRO)	452	50	mg/kg	500	29.3	96.8	70-130			
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Matrix Spike (BFE0520-MS1)

Source: 2205324-01

Prepared & Analyzed: 05/24/22

C10-C28 (DRO)	513	50	mg/kg	500	29.3	96.8	70-130			
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Matrix Spike Dup (BFE0520-MSD1)

Source: 2205324-01

Prepared & Analyzed: 05/24/22

C10-C28 (DRO)	481	50	mg/kg	500	29.3	90.4	70-130	6.49	20	
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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - RMF

Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/09/22 13:41

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFE0488 - EPA 5030 Soil MS

Blank (BFE0488-BLK1)

Prepared & Analyzed: 05/23/22

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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0304</i>		<i>"</i>	<i>0.0333</i>		<i>91.3</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0301</i>		<i>"</i>	<i>0.0333</i>		<i>90.4</i>		<i>40-150</i>		

LCS (BFE0488-BS1)

Prepared & Analyzed: 05/23/22

Acenaphthene	0.0263	0.00500	mg/kg	0.0333		79.0		31-137		
Anthracene	0.0288	0.00500	"	0.0333		86.4		30-120		
Benzo (a) anthracene	0.0275	0.00500	"	0.0333		82.6		30-120		
Benzo (a) pyrene	0.0273	0.00500	"	0.0333		82.0		30-120		
Benzo (b) fluoranthene	0.0285	0.00500	"	0.0333		85.6		30-120		
Benzo (k) fluoranthene	0.0309	0.00500	"	0.0333		92.7		30-120		
Chrysene	0.0298	0.00500	"	0.0333		89.4		30-120		
Dibenz (a,h) anthracene	0.0211	0.00500	"	0.0333		63.4		30-120		
Fluoranthene	0.0323	0.00500	"	0.0333		96.8		30-120		
Fluorene	0.0284	0.00500	"	0.0333		85.1		30-120		
Indeno (1,2,3-cd) pyrene	0.0185	0.00500	"	0.0333		55.5		30-120		
Pyrene	0.0294	0.00500	"	0.0333		88.1		35-142		
1-Methylnaphthalene	0.0242	0.00500	"	0.0333		72.6		35-142		
2-Methylnaphthalene	0.0245	0.00500	"	0.0333		73.5		35-142		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0243</i>		<i>"</i>	<i>0.0333</i>		<i>73.0</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0306</i>		<i>"</i>	<i>0.0333</i>		<i>91.8</i>		<i>40-150</i>		

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

Project: KPK - RMF

Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/09/22 13:41

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFE0488 - EPA 5030 Soil MS

Matrix Spike (BFE0488-MS1)	Source: 2205301-01			Prepared & Analyzed: 05/23/22							
Acenaphthene	0.0136	0.00500	mg/kg	0.0333	ND	40.9	31-137				
Anthracene	0.0144	0.00500	"	0.0333	ND	43.2	30-120				
Benzo (a) anthracene	0.0147	0.00500	"	0.0333	ND	44.2	30-120				
Benzo (a) pyrene	0.0137	0.00500	"	0.0333	ND	41.1	30-120				
Benzo (b) fluoranthene	0.0146	0.00500	"	0.0333	ND	43.7	30-120				
Benzo (k) fluoranthene	0.0166	0.00500	"	0.0333	ND	49.7	30-120				
Chrysene	0.0150	0.00500	"	0.0333	ND	45.0	30-120				
Dibenz (a,h) anthracene	0.0109	0.00500	"	0.0333	ND	32.7	30-120				
Fluoranthene	0.0133	0.00500	"	0.0333	ND	40.0	30-120				
Fluorene	0.0135	0.00500	"	0.0333	ND	40.4	30-120				
Indeno (1,2,3-cd) pyrene	0.0104	0.00500	"	0.0333	ND	31.2	30-120				
Pyrene	0.0146	0.00500	"	0.0333	ND	43.9	35-142				
1-Methylnaphthalene	0.0146	0.00500	"	0.0333	ND	43.7	15-130				
2-Methylnaphthalene	0.0141	0.00500	"	0.0333	ND	42.2	15-130				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0143</i>		<i>"</i>	<i>0.0333</i>		<i>42.9</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0135</i>		<i>"</i>	<i>0.0333</i>		<i>40.6</i>	<i>40-150</i>				

Matrix Spike Dup (BFE0488-MSD1)	Source: 2205301-01			Prepared & Analyzed: 05/23/22						
Acenaphthene	0.0203	0.00500	mg/kg	0.0333	ND	60.8	31-137	39.3	30	QR-02
Anthracene	0.0236	0.00500	"	0.0333	ND	70.8	30-120	48.3	30	QR-02
Benzo (a) anthracene	0.0234	0.00500	"	0.0333	ND	70.2	30-120	45.3	30	QR-02
Benzo (a) pyrene	0.0221	0.00500	"	0.0333	ND	66.3	30-120	46.9	30	QR-02
Benzo (b) fluoranthene	0.0249	0.00500	"	0.0333	ND	74.6	30-120	52.3	30	QR-02
Benzo (k) fluoranthene	0.0247	0.00500	"	0.0333	ND	74.1	30-120	39.4	30	QR-02
Chrysene	0.0243	0.00500	"	0.0333	ND	73.0	30-120	47.3	30	QR-02
Dibenz (a,h) anthracene	0.0170	0.00500	"	0.0333	ND	51.1	30-120	43.8	30	QR-02
Fluoranthene	0.0249	0.00500	"	0.0333	ND	74.7	30-120	60.5	30	QR-02
Fluorene	0.0215	0.00500	"	0.0333	ND	64.6	30-120	46.1	30	QR-02
Indeno (1,2,3-cd) pyrene	0.0141	0.00500	"	0.0333	ND	42.4	30-120	30.4	30	QR-02
Pyrene	0.0246	0.00500	"	0.0333	ND	73.7	35-142	50.7	30	QR-02
1-Methylnaphthalene	0.0225	0.00500	"	0.0333	ND	67.6	15-130	42.9	50	
2-Methylnaphthalene	0.0218	0.00500	"	0.0333	ND	65.5	15-130	43.4	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0219</i>		<i>"</i>	<i>0.0333</i>		<i>65.8</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0236</i>		<i>"</i>	<i>0.0333</i>		<i>70.9</i>	<i>40-150</i>			

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

Project: KPK - RMF

Project Number: [none]
 Project Manager: Jennifer Galles

Reported:
 06/09/22 13:41

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BFE0661 - EPA 3050B

Blank (BFE0661-BLK1)

Prepared: 05/27/22 Analyzed: 05/31/22

Boron ND 0.0100 mg/L

LCS (BFE0661-BS1)

Prepared: 05/27/22 Analyzed: 05/31/22

Boron 5.65 0.0100 mg/L 5.00 113 80-120

Duplicate (BFE0661-DUP1)

Source: 2202356-03

Prepared: 05/27/22 Analyzed: 05/31/22

Boron 0.0479 0.0100 mg/L 0.0542 12.3 20

Matrix Spike (BFE0661-MS1)

Source: 2202356-03

Prepared: 05/27/22 Analyzed: 05/31/22

Boron 5.65 0.0100 mg/L 5.00 0.0542 112 75-125

Matrix Spike Dup (BFE0661-MSD1)

Source: 2202356-03

Prepared: 05/27/22 Analyzed: 05/31/22

Boron 5.76 0.0100 mg/L 5.00 0.0542 114 75-125 1.91 25

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

Project: KPK - RMF

Project Number: [none]
 Project Manager: Jennifer Galles

Reported:
 06/09/22 13:41

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFF0105 - EPA 3050B

Blank (BFF0105-BLK1)

Prepared: 06/03/22 Analyzed: 06/07/22

Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Selenium	ND	0.260	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							

LCS (BFF0105-BS1)

Prepared: 06/03/22 Analyzed: 06/07/22

Arsenic	8.60	0.200	mg/kg wet	8.00		107	80-120			
Barium	8.64	0.400	"	8.00		108	80-120			
Cadmium	0.476	0.200	"	0.400		119	80-120			
Copper	8.32	0.400	"	8.00		104	80-120			
Lead	4.52	0.200	"	4.00		113	80-120			
Nickel	8.27	0.400	"	8.00		103	80-120			
Selenium	0.803	0.260	"	0.800		100	80-120			
Silver	0.463	0.0200	"	0.400		116	80-120			
Zinc	8.65	0.400	"	8.00		108	80-120			

Duplicate (BFF0105-DUP1)

Source: 2203107-01

Prepared: 06/03/22 Analyzed: 06/07/22

Arsenic	0.431	0.205	mg/kg dry		0.460			6.43	20	
Barium	12.3	0.411	"		13.3			8.01	20	
Cadmium	0.0241	0.205	"		0.0269			11.0	20	
Copper	1.26	0.411	"		1.30			3.36	20	
Lead	1.37	0.205	"		1.58			14.1	20	
Nickel	1.12	0.411	"		1.29			14.5	20	
Selenium	0.196	0.267	"		0.315			46.3	20	
Silver	0.00723	0.0205	"		0.00702			2.96	20	
Zinc	5.28	0.411	"		5.07			4.09	20	

QR-01

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

Project: KPK - RMF

Project Number: [none]
 Project Manager: Jennifer Galles

Reported:
 06/09/22 13:41

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFF0105 - EPA 3050B

Matrix Spike (BFF0105-MS1)

Source: 2203107-01

Prepared: 06/03/22 Analyzed: 06/07/22

Arsenic	9.32	0.205	mg/kg dry	8.22	0.460	108	75-125			
Barium	21.5	0.411	"	8.22	13.3	99.2	75-125			
Cadmium	0.494	0.205	"	0.411	0.0269	114	75-125			
Copper	9.71	0.411	"	8.22	1.30	102	75-125			
Lead	5.88	0.205	"	4.11	1.58	105	75-125			
Nickel	9.73	0.411	"	8.22	1.29	103	75-125			
Selenium	0.998	0.267	"	0.822	0.315	83.1	75-125			
Silver	0.461	0.0205	"	0.411	0.00702	111	75-125			
Zinc	14.6	0.411	"	8.22	5.07	116	75-125			

Matrix Spike Dup (BFF0105-MSD1)

Source: 2203107-01

Prepared: 06/03/22 Analyzed: 06/07/22

Arsenic	8.72	0.205	mg/kg dry	8.22	0.460	100	75-125	6.74	25
Barium	20.7	0.411	"	8.22	13.3	89.6	75-125	3.73	25
Cadmium	0.460	0.205	"	0.411	0.0269	105	75-125	7.14	25
Copper	9.26	0.411	"	8.22	1.30	96.8	75-125	4.76	25
Lead	5.52	0.205	"	4.11	1.58	95.7	75-125	6.35	25
Nickel	9.15	0.411	"	8.22	1.29	95.6	75-125	6.16	25
Selenium	1.01	0.267	"	0.822	0.315	84.5	75-125	1.14	25
Silver	0.421	0.0205	"	0.411	0.00702	101	75-125	9.17	25
Zinc	13.8	0.411	"	8.22	5.07	106	75-125	5.62	25

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

Project: KPK - RMF

Project Number: [none]
 Project Manager: Jennifer Galles

Reported:
 06/09/22 13:41

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFF0013 - 3060A Mod

Blank (BFF0013-BLK1)

Prepared & Analyzed: 06/01/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFF0013-BS1)

Prepared & Analyzed: 06/01/22

Chromium, Hexavalent 29.9 0.30 mg/kg wet 25.0 120 80-120

Duplicate (BFF0013-DUP1)

Source: 2205307-01

Prepared & Analyzed: 06/01/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFF0013-MS1)

Source: 2205307-01

Prepared & Analyzed: 06/01/22

Chromium, Hexavalent 33.5 0.30 mg/kg dry 31.5 ND 106 75-125

Matrix Spike Dup (BFF0013-MSD1)

Source: 2205307-01

Prepared & Analyzed: 06/01/22

Chromium, Hexavalent 32.4 0.30 mg/kg dry 31.5 ND 103 75-125 3.44 20

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

Project: KPK - RMF

Project Number: [none]
 Project Manager: Jennifer Galles

Reported:
 06/09/22 13:41

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BFE0636 - General Preparation

Blank (BFE0636-BLK1)

Prepared: 05/27/22 Analyzed: 06/01/22

Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

LCS (BFE0636-BS1)

Prepared: 05/27/22 Analyzed: 06/01/22

Calcium	594	0.0500	mg/L wet	500	119	70-130				
Magnesium	545	0.0500	"	500	109	70-130				
Sodium	508	0.0500	"	500	102	70-130				

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

Project: KPK - RMF

Project Number: [none]
 Project Manager: Jennifer Galles

Reported:
 06/09/22 13:41

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

Summit Scientific

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

Batch BFE0673 - General Preparation

Duplicate (BFE0673-DUP1)	Source: 2205323-01		Prepared: 05/28/22 Analyzed: 05/29/22	
% Solids	83.4	%	83.3	0.179 20

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

Project: KPK - RMF

Project Number: [none]
 Project Manager: Jennifer Galles

Reported:
 06/09/22 13:41

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control
Summit Scientific

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

Batch BFE0637 - General Preparation

Blank (BFE0637-BLK1)

Prepared: 05/27/22 Analyzed: 05/30/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFE0637-BS1)

Prepared: 05/27/22 Analyzed: 05/30/22

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BFE0637-DUP1)

Source: 2202356-03

Prepared: 05/27/22 Analyzed: 05/30/22

Specific Conductance (EC) 0.579 0.0100 mmhos/cm 0.597 3.10 20

Summit Scientific

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

Project: KPK - RMF

Project Number: [none]
 Project Manager: Jennifer Galles

Reported:
 06/09/22 13:41

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BFE0638 - General Preparation

LCS (BFE0638-BS1)

Prepared: 05/27/22 Analyzed: 05/30/22

pH	9.02	pH Units	9.18	98.3	95-105
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Duplicate (BFE0638-DUP1)

Source: 2202356-03

Prepared: 05/27/22 Analyzed: 05/30/22

pH	8.38	pH Units	8.34	0.478	20
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Marcom LLC
1811 East Mulberry St.
Fort Collins CO, 80524

Project: KPK - RMF

Project Number: [none]
Project Manager: Jennifer Galles

Reported:
06/09/22 13:41

Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QR-01 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- 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