



Eagle Environmental Consulting, LLC
Dan Coloccia
8000 W 44th Ave

November 06, 2024

Wheat Ridge CO 80033

Project Name - KMG - Canepa 6-13

Project Number - [none]

Attached are your analytical results for KMG - Canepa 6-13 received by Origins Laboratory November 05, 2024. This project is associated with Origins project number E4K0105-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory
303.433.1322
projectmanager@originslab.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG - Canepa 6-13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@6'	E4K0105-01	Soil	November 5, 2024 15:30	11/05/2024 17:09
FL-B01@4'	E4K0105-02	Soil	November 5, 2024 15:32	11/05/2024 17:09

Origins Laboratory



Jen Pellegrini, Project Manager

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Canepa 6-13

ORIGINS

LABORATORY INC

ORIGINS WORK ORDER #

6460105

Page 1 of 1

Client: Eagle Environmental (ox)
 Address: 8000 W 44th Ave
 Telephone Number: Wheat Ridge CO 80033
 Email Address: dan.coloccia@eagle-environment.com
 Project Manager: D. Coloccia
 Project Name: Canepa 6-13
 Project Number: -
 Collected By: DB
 Invoice/Billing Info: Initial
 Key: W=Water
 GW=Groundwater
 SW=Surface Water
 WW=Waste Water
 L=Liquid

S=soil | SO=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCl=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date		# of Containers	Matrix	Preservative	Analysis				Comments											
		Sampled	Time Sampled																			
1	WH-Boiler	11/5/24	15:30	3	S	UNP	X															
2	FL-Boiler	L	15:32	1	L	L	L															
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						

Relinquished By: DB Date: 11/5/24 Time: 16:18
 Received By: SKD Date: 11/5/24 Time: 16:48
 Turnaround Time: SAME DAY 24 Hr 48 Hr 72 Hr
 Temp Received: 42 Received On Ice? Yes No

Origins Laboratory

Jefe Pellegrini

Jen Pellegrini, Project Manager

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Canepa 6-13

Origins Laboratory F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: EUK0105 Client: Eagle
 Client Project ID: Canepa 6-13

Checklist Completed by: SHDWS Shipped Via: 710
 Date/time completed: 11/15/12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)

Cooler Number/Temperature: 1 14.2 °C _____ °C _____ °C _____ °C

Thermometer ID: 7007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	/	/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	/	/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	/	/		
Is a chain-of-custody (COC) 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 with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	/		/	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, +H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	/		/	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) SHDWS Date/Time Reviewed 11/15/12

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Canepa 6-13

WH-B01@6'
11/5/2024 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0105-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K0554	11/05/2024	11/06/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	76.0 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K0555	11/05/2024	11/05/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			"	"	"	
Surrogate: Toluene-d8	99.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.5 %		70-130			"	"	"	

Table 915 metals by EPA 6020B

Origins Laboratory



Jen Pellegrini, Project Manager

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WH-B01@6'
11/5/2024 3:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0105-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.40		0.281	mg/kg	10	B4K0547	11/05/2024	11/06/2024	
Barium	53.6		9.67	"	"	"	"	"	
Cadmium	0.109		0.0967	"	"	"	"	"	
Copper	ND		9.67	"	"	"	"	"	U
Lead	6.82		0.967	"	"	"	"	"	
Nickel	6.72		0.967	"	"	"	"	"	
Selenium	ND		0.251	"	"	"	"	"	U
Silver	ND		0.0967	"	"	"	"	"	U
Zinc	ND		35.8	"	"	"	"	"	U

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FL-B01@4'

11/5/2024 3:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E4K0105-02 (Soil)**

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K0554	11/05/2024	11/06/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	81.9 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K0555	11/05/2024	11/05/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			"	"	"	
Surrogate: Toluene-d8	99.3 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

Table 915 metals by EPA 6020B

Origins Laboratory



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FL-B01@4'

11/5/2024 3:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0105-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.02		0.277	mg/kg	10	B4K0547	11/05/2024	11/06/2024	
Barium	50.9		9.55	"	"	"	"	"	
Cadmium	ND		0.0955	"	"	"	"	"	U
Copper	ND		9.55	"	"	"	"	"	U
Lead	5.76		0.955	"	"	"	"	"	
Nickel	5.21		0.955	"	"	"	"	"	
Selenium	ND		0.248	"	"	"	"	"	U
Silver	ND		0.0955	"	"	"	"	"	U
Zinc	ND		35.3	"	"	"	"	"	U

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Eagle Environmental Consulting, LLC
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Dan Coloccia
 Project Number: [none]
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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4K0554 - EPA 3550B										
Blank (B4K0554-BLK1)										
					Prepared: 11/05/2024 Analyzed: 11/06/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		87.8	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K0554 - EPA 3550B

LCS (B4K0554-BS1)

Prepared: 11/05/2024 Analyzed: 11/06/2024

Diesel (C10-C28)	876	50.0	mg/kg	1000		87.6	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.8	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K0554 - EPA 3550B

Matrix Spike (B4K0554-MS1)	Source: E4K0105-01			Prepared: 11/05/2024 Analyzed: 11/06/2024						
Diesel (C10-C28)	893	50.0	mg/kg	1000	ND	89.3	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000	51.2	100	70-130			
Surrogate: o-Terphenyl	45		"	49.8		90.1	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4K0554 - EPA 3550B										
Matrix Spike Dup (B4K0554-MSD1)					Source: E4K0105-01					Prepared: 11/05/2024 Analyzed: 11/06/2024
Diesel (C10-C28)	936	50.0	mg/kg	1000	ND	93.6	70-130	4.74	35	
Residual Range Organics (C28-C40)	1110	200	"	1000	51.2	106	70-130	5.53	35	
Surrogate: o-Terphenyl	44		"	49.8		89.4	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K0555 - EPA 5030 (soil)

Blank (B4K0555-BLK1)

Prepared: 11/05/2024 Analyzed: 11/05/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	98.2		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	102		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.6		70-130			

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Dan Coloccia
 Project Number: [none]
 Project: KMG - Canepa 6-13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K0555 - EPA 5030 (soil)

LCS (B4K0555-BS1)

Prepared: 11/05/2024 Analyzed: 11/05/2024

1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg				70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"				70-130			
Benzene	0.102	0.00200	"				70-130			
Ethylbenzene	0.109	0.00200	"				70-130			
Naphthalene	0.115	0.00380	"				70-130			
Toluene	0.101	0.00200	"				70-130			
o-Xylene	0.111	0.00200	"				70-130			
m,p-Xylene	0.220	0.00400	"				70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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 Project: KMG - Canepa 6-13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K0555 - EPA 5030 (soil)

Matrix Spike (B4K0555-MS1)	Source: E4K0105-01			Prepared: 11/05/2024 Analyzed: 11/05/2024						
1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg		0.000520		70-130			
1,3,5-Trimethylbenzene	0.108	0.00200	"		ND		70-130			
Benzene	0.0967	0.00200	"		ND		70-130			
Ethylbenzene	0.105	0.00200	"		ND		70-130			
Naphthalene	0.108	0.00380	"		ND		70-130			
Toluene	0.0973	0.00200	"		0.000640		70-130			
o-Xylene	0.108	0.00200	"		0.000460		70-130			
m,p-Xylene	0.212	0.00400	"		0.00112		70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K0555 - EPA 5030 (soil)

Matrix Spike Dup (B4K0555-MSD1)	Source: E4K0105-01			Prepared: 11/05/2024 Analyzed: 11/05/2024						
1,2,4-Trimethylbenzene	0.0958	0.00200	mg/kg		0.000520		70-130	12.0	20	
1,3,5-Trimethylbenzene	0.0950	0.00200	"		ND		70-130	13.0	20	
Benzene	0.0918	0.00200	"		ND		70-130	5.24	20	
Ethylbenzene	0.0954	0.00200	"		ND		70-130	9.98	20	
Naphthalene	0.0993	0.00380	"		ND		70-130	8.66	20	
Toluene	0.0904	0.00200	"		0.000640		70-130	7.35	20	
o-Xylene	0.0974	0.00200	"		0.000460		70-130	10.0	20	
m,p-Xylene	0.193	0.00400	"		0.00112		70-130	9.57	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K0547 - EPA 3050B

Blank (B4K0547-BLK1)

Prepared: 11/05/2024 Analyzed: 11/06/2024

Arsenic	ND	0.290	mg/kg							U
Barium	ND	10.0	"							U
Cadmium	ND	0.100	"							U
Copper	ND	10.0	"							U
Lead	ND	1.00	"							U
Nickel	ND	1.00	"							U
Selenium	ND	0.260	"							U
Silver	ND	0.100	"							U
Zinc	ND	37.0	"							U

LCS (B4K0547-BS1)

Prepared: 11/05/2024 Analyzed: 11/06/2024

Arsenic	5.35	0.290	mg/kg	5.00		107	80-120			
Barium	527	10.0	"	500		105	80-120			
Cadmium	5.10	0.100	"	5.00		102	80-120			
Copper	50.7	10.0	"	50.0		101	80-120			
Lead	5.22	1.00	"	5.00		104	80-120			
Nickel	5.66	1.00	"	5.00		113	80-120			
Selenium	5.46	0.260	"	5.00		109	80-120			
Silver	5.63	0.100	"	5.00		113	80-120			
Zinc	52.4	37.0	"	50.0		105	80-120			

Matrix Spike (B4K0547-MS1)

Source: E4K0094-06

Prepared: 11/05/2024 Analyzed: 11/06/2024

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Jen Pellegrini, Project Manager

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Canepa 6-13

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K0547 - EPA 3050B

Matrix Spike (B4K0547-MS1)		Source: E4K0094-06			Prepared: 11/05/2024 Analyzed: 11/06/2024					
Arsenic	5.98	0.271	mg/kg	4.66	1.23	102	75-125			
Barium	522	9.33	"	466	28.7	106	75-125			
Cadmium	4.96	0.0933	"	4.66	0.115	104	75-125			
Copper	49.1	9.33	"	46.6	2.73	99.4	75-125			
Lead	10.5	0.933	"	4.66	5.78	101	75-125			
Nickel	7.78	0.933	"	4.66	2.54	112	75-125			
Selenium	4.98	0.243	"	4.66	0.0541	106	75-125			
Silver	5.26	0.0933	"	4.66	0.0108	113	75-125			
Zinc	63.1	34.5	"	46.6	16.4	100	75-125			

Matrix Spike Dup (B4K0547-MSD1)		Source: E4K0094-06			Prepared: 11/05/2024 Analyzed: 11/06/2024					
Arsenic	5.90	0.263	mg/kg	4.53	1.23	103	75-125	1.28	20	
Barium	483	9.06	"	453	28.7	100	75-125	7.76	20	
Cadmium	4.55	0.0906	"	4.53	0.115	97.9	75-125	8.61	20	
Copper	47.5	9.06	"	45.3	2.73	98.8	75-125	3.32	20	
Lead	9.79	0.906	"	4.53	5.78	88.4	75-125	6.74	20	
Nickel	7.23	0.906	"	4.53	2.54	104	75-125	7.30	20	
Selenium	4.76	0.236	"	4.53	0.0541	104	75-125	4.42	20	
Silver	4.91	0.0906	"	4.53	0.0108	108	75-125	7.01	20	
Zinc	61.0	33.5	"	45.3	16.4	98.3	75-125	3.34	20	

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Project: KMG - Canepa 6-13

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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