



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

November 08, 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 07, 2024. This project is associated with Origins project number E4K0186-01.

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
FL-B12@4'	E4K0186-01	Soil	November 7, 2024 13:12	11/07/2024 14:59

Origins Laboratory



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: E4K0186

Client: Eagle

Client Project ID: Canepa 6-13

Checklist Completed by: ZHD AN

Shipped Via: HO  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 11/7/12

Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 1/5.2 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 HNO3, HCl, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>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) ZHD

Date/Time Reviewed 11/7/12

Origins Laboratory



Jen Pellegrini, Project Manager

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

**FL-B12@4'**

**11/7/2024 1:12:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
 E4K0186-01 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K0752	11/07/2024	11/08/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	71.9 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K0753	11/07/2024	11/07/2024	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	102 %		70-130			"	"	"	
Surrogate: Toluene-d8	100 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	116 %		70-130			"	"	"	

**Table 915 metals by EPA 6020B**

Origins Laboratory



Jen Pellegrini, Project Manager

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**FL-B12@4'**

**11/7/2024 1:12:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E4K0186-01 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	6.75		0.276	mg/kg	10	B4K0748	11/07/2024	11/08/2024	
Barium	160		9.52	"	"	"	"	"	
Cadmium	0.260		0.0952	"	"	"	"	"	
Copper	14.7		9.52	"	"	"	"	"	
Lead	10.9		0.952	"	"	"	"	"	
Nickel	16.3		0.952	"	"	"	"	"	
Selenium	ND		0.247	"	"	"	"	"	U
Silver	0.0961		0.0952	"	"	"	"	"	
Zinc	58.8		35.2	"	"	"	"	"	

Origins Laboratory



Jen Pellegrini, Project Manager

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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
<b>Batch B4K0752 - EPA 3550B</b>										
<b>Blank (B4K0752-BLK1)</b>										
					Prepared: 11/07/2024 Analyzed: 11/07/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		86.0	50-150			

Origins Laboratory



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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 B4K0752 - EPA 3550B**

**LCS (B4K0752-BS1)**

Prepared: 11/07/2024 Analyzed: 11/07/2024

Diesel (C10-C28)	947	50.0	mg/kg	1000		94.7	70-130			
Residual Range Organics (C28-C40)	917	200	"	1000		91.7	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.0	50-150			

Origins Laboratory



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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 B4K0752 - EPA 3550B**

<b>Matrix Spike (B4K0752-MS1)</b>	<b>Source: E4K0181-01</b>			Prepared: 11/07/2024 Analyzed: 11/07/2024						
Diesel (C10-C28)	966	50.0	mg/kg	1000	ND	96.6	70-130			
Residual Range Organics (C28-C40)	908	200	"	1000	ND	90.8	70-130			
Surrogate: o-Terphenyl	36		"	49.8		72.9	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
<b>Batch B4K0752 - EPA 3550B</b>										
<b>Matrix Spike Dup (B4K0752-MSD1)</b>					<b>Source: E4K0181-01</b>					Prepared: 11/07/2024 Analyzed: 11/07/2024
Diesel (C10-C28)	964	50.0	mg/kg	1000	ND	96.4	70-130	0.207	35	
Residual Range Organics (C28-C40)	903	200	"	1000	ND	90.3	70-130	0.598	35	
Surrogate: o-Terphenyl	34		"	49.8		69.2	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
<b>Batch B4K0753 - EPA 5030 (soil)</b>										
<b>Blank (B4K0753-BLK1)</b>										
					Prepared: 11/07/2024 Analyzed: 11/07/2024					
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	99.9		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	102		70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125	115		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 B4K0753 - EPA 5030 (soil)**

**LCS (B4K0753-BS1)**

Prepared: 11/07/2024 Analyzed: 11/07/2024

1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.115	0.00200	"	0.100		115	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Naphthalene	0.105	0.00380	"	0.100		105	70-130			
Toluene	0.110	0.00200	"	0.100		110	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.203	0.00400	"	0.200		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.8	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 B4K0753 - EPA 5030 (soil)

Matrix Spike (B4K0753-MS1)	Source: E4K0183-01			Prepared: 11/07/2024 Analyzed: 11/07/2024						
1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100	ND	103	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130			
Benzene	0.0910	0.00200	"	0.100	ND	91.0	70-130			
Ethylbenzene	0.0948	0.00200	"	0.100	ND	94.8	70-130			
Naphthalene	0.0975	0.00380	"	0.100	ND	97.5	70-130			
Toluene	0.0954	0.00200	"	0.100	ND	95.4	70-130			
o-Xylene	0.0958	0.00200	"	0.100	ND	95.8	70-130			
m,p-Xylene	0.189	0.00400	"	0.200	ND	94.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.8	70-130			

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 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 B4K0753 - EPA 5030 (soil)

Matrix Spike Dup (B4K0753-MSD1)	Source: E4K0183-01			Prepared: 11/07/2024 Analyzed: 11/07/2024						
1,2,4-Trimethylbenzene	0.0931	0.00200	mg/kg	0.100	ND	93.1	70-130	10.4	20	
1,3,5-Trimethylbenzene	0.0943	0.00200	"	0.100	ND	94.3	70-130	12.1	20	
Benzene	0.0845	0.00200	"	0.100	ND	84.5	70-130	7.38	20	
Ethylbenzene	0.0856	0.00200	"	0.100	ND	85.6	70-130	10.2	20	
Naphthalene	0.0919	0.00380	"	0.100	ND	91.9	70-130	5.93	20	
Toluene	0.0848	0.00200	"	0.100	ND	84.8	70-130	11.8	20	
o-Xylene	0.0864	0.00200	"	0.100	ND	86.4	70-130	10.3	20	
m,p-Xylene	0.170	0.00400	"	0.200	ND	85.1	70-130	10.4	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.8	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 B4K0748 - EPA 3050B**

**Blank (B4K0748-BLK1)**

Prepared: 11/07/2024 Analyzed: 11/08/2024

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 (B4K0748-BS1)**

Prepared: 11/07/2024 Analyzed: 11/08/2024

Arsenic	5.40	0.290	mg/kg	5.00		108	80-120
Barium	501	10.0	"	500		100	80-120
Cadmium	5.29	0.100	"	5.00		106	80-120
Copper	54.7	10.0	"	50.0		109	80-120
Lead	5.06	1.00	"	5.00		101	80-120
Nickel	5.49	1.00	"	5.00		110	80-120
Selenium	5.18	0.260	"	5.00		104	80-120
Silver	5.60	0.100	"	5.00		112	80-120
Zinc	54.0	37.0	"	50.0		108	80-120

**Matrix Spike (B4K0748-MS1)**

**Source: E4K0187-01**

Prepared: 11/07/2024 Analyzed: 11/08/2024

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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 B4K0748 - EPA 3050B**

<b>Matrix Spike (B4K0748-MS1)</b>		<b>Source: E4K0187-01</b>			Prepared: 11/07/2024 Analyzed: 11/08/2024					
Arsenic	12.2	0.272	mg/kg	4.68	7.01	110	75-125			
Barium	718	9.37	"	468	173	117	75-125			
Cadmium	5.31	0.0937	"	4.68	0.186	109	75-125			
Copper	64.1	9.37	"	46.8	13.6	108	75-125			
Lead	15.4	0.937	"	4.68	10.7	101	75-125			
Nickel	21.1	0.937	"	4.68	15.8	113	75-125			
Selenium	4.95	0.244	"	4.68	0.233	101	75-125			
Silver	5.35	0.0937	"	4.68	0.0447	113	75-125			
Zinc	104	34.7	"	46.8	55.4	103	75-125			

<b>Matrix Spike Dup (B4K0748-MSD1)</b>		<b>Source: E4K0187-01</b>			Prepared: 11/07/2024 Analyzed: 11/08/2024					
Arsenic	11.7	0.248	mg/kg	4.27	7.01	110	75-125	3.81	20	
Barium	669	8.54	"	427	173	116	75-125	7.07	20	
Cadmium	4.95	0.0854	"	4.27	0.186	112	75-125	6.99	20	
Copper	59.4	8.54	"	42.7	13.6	107	75-125	7.66	20	
Lead	15.3	0.854	"	4.27	10.7	109	75-125	0.465	20	
Nickel	20.5	0.854	"	4.27	15.8	110	75-125	2.82	20	
Selenium	4.84	0.222	"	4.27	0.233	108	75-125	2.34	20	
Silver	4.91	0.0854	"	4.27	0.0447	114	75-125	8.67	20	
Zinc	101	31.6	"	42.7	55.4	106	75-125	2.84	20	

Origins Laboratory



Jen Pellegrini, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

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Wheat Ridge CO 80033

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

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### 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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