



**Quandary Consultants**

**November 15, 2024**

**Mike Dinkel**

**2252 Emerson St.**

**Denver CO 80205**

**Project Name - KMG - Kiteley 6-27**

**Project Number - [none]**

Attached are your analytical results for KMG - Kiteley 6-27 received by Origins Laboratory November 13, 2024. This project is associated with Origins project number E4K0344-01.

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

Quandary Consultants  
2252 Emerson St.  
Denver CO 80205

Mike Dinkel  
Project Number: [none]  
Project: KMG - Kiteley 6-27

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
6-27-FL-B02@4'	E4K0344-01	Soil	November 13, 2024 8:53	11/13/2024 14:13

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Quandary Consultants  
 2252 Emerson St.  
 Denver CO 80205

Mike Dinkel  
 Project Number: [none]  
 Project: KMG - Kiteley 6-27

Client: Leo-Magee Oil & Gas Division, LP  
 Address: 501 N. Division St.  
RATTENILLE, CO 80651  
 Project Manager: Mike Dinkel  
 Project Name: Quandary Kiteley 6-27  
 Project Number: \_\_\_\_\_  
 Key: \_\_\_\_\_  
 W=Water  
 GW=Groundwater  
 SW=Surface Water  
 WW=Waste Water  
 L=Liquid  
 Telephone Number: 785 691-7188 SAMPLES@QUANDARYCONSULTANTS.COM  
 Email Address: ADJUTANT@QUANDARYCONSULTANTS.COM  
 Invoice/Billing Info: Eric Wilkison  
 Collected By: DA/PS  
 S=Soil | SO=Solid | G=Oil | A=Air | G=Gas | UNP=Impres | HCl= Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date	Time	# of Containers	Matrix	Preservative	Analysis		Comments
1	6-27-E-80204	11/13/24	855	3	S	NA			X 5 Table
2									
3									
4									
5									
6									
7									
8									
9									
10									

Relinquished By: [Signature] Date: 11/13/24 Time: 413  
 Received By: [Signature] Date: 11/13/24 Time: 1413  
 Turnaround Time:  SAME DAY  24 Hr  48 Hr  72 Hr  
 Temp Received: 32 Received On Ice?  Yes  No  
 For Lab Sample Receiving Only

Origins Laboratory

*Jefe Pellegrini*

Jen Pellegrini For Jordan A. Bynon, Project Manager

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Project Number: [none]  
Project: KMG - Kiteley 6-27

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: PAK0344

Client: Quandary  
Client Project ID: Kiteley 6-27

Checklist Completed by: VS /  
Date/time completed: 11/13/24

Shipped Via: \_\_\_\_\_  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid

Water \_\_\_\_\_ Other: \_\_\_\_\_

Cooler Number/Temperature: 132 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) °C

Thermometer ID: 1007

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> ?	/			
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 <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	VS	/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			/	
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 HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			/	
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) [Signature]

11/14/24  
Date/Time Reviewed

Origins Laboratory

*Jefe Pellegrini*

Jen Pellegrini For Jordan A. Bynon, Project Manager

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Denver CO 80205

Mike Dinkel  
Project Number: [none]  
Project: KMG - Kiteley 6-27

**6-27-FL-B02@4'**

**11/13/2024 8:53:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
E4K0344-01 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4K1338	11/13/2024	11/14/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	73.1 %	50-150	"	"	"	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4K1337	"	11/14/2024	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	<b>0.409</b>	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	79.6 %	70-130	"	"	"	"	"	"
Surrogate: Toluene-d8	95.4 %	70-130	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	81.4 %	70-130	"	"	"	"	"	"

**Table 915 metals by EPA 6020B**

Origins Laboratory



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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Denver CO 80205

Mike Dinkel  
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Project: KMG - Kiteley 6-27

6-27-FL-B02@4'

11/13/2024 8:53:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
E4K0344-01 (Soil)

**Table 915 metals by EPA 6020B**

Arsenic	2.92		0.284	mg/kg	10	B4K1341	11/13/2024	11/14/2024	
Barium	70.1		9.79	"	"	"	"	"	
Cadmium	0.149		0.0979	"	"	"	"	"	
Copper	ND		9.79	"	"	"	"	"	U
Lead	7.91		0.979	"	"	"	"	"	
Nickel	7.27		0.979	"	"	"	"	"	
Selenium	ND		0.255	"	"	"	"	"	U
Silver	ND		0.0979	"	"	"	"	"	U
Zinc	36.7		36.2	"	"	"	"	"	

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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 Denver CO 80205

Mike Dinkel  
 Project Number: [none]  
 Project: KMG - Kiteley 6-27

**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
<b>Batch B4K1337 - EPA 5030 (soil)</b>										
<b>Blank (B4K1337-BLK1)</b>										
					Prepared: 11/13/2024 Analyzed: 11/14/2024					
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	0.093		"	0.125	74.8		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	96.8		70-130			
Surrogate: 4-Bromofluorobenzene	0.10		"	0.125	82.8		70-130			

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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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 B4K1337 - EPA 5030 (soil)**

**LCS (B4K1337-BS1)**

Prepared: 11/13/2024 Analyzed: 11/14/2024

1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100		112	70-130			
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100		114	70-130			
Benzene	0.111	0.00200	"	0.100		111	70-130			
Ethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Naphthalene	0.106	0.00380	"	0.100		106	70-130			
Toluene	0.109	0.00200	"	0.100		109	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
m,p-Xylene	0.229	0.00400	"	0.200		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.091		"	0.125		72.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.5	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 B4K1337 - EPA 5030 (soil)**

<b>Matrix Spike (B4K1337-MS1)</b>	<b>Source: E4K0340-01</b>			<b>Prepared: 11/13/2024 Analyzed: 11/14/2024</b>						
1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100	ND	104	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130			
Benzene	0.112	0.00200	"	0.100	0.00678	106	70-130			
Ethylbenzene	0.0984	0.00200	"	0.100	ND	98.4	70-130			
Naphthalene	0.101	0.00380	"	0.100	ND	101	70-130			
Toluene	0.104	0.00200	"	0.100	0.00374	101	70-130			
o-Xylene	0.0993	0.00200	"	0.100	ND	99.3	70-130			
m,p-Xylene	0.213	0.00400	"	0.200	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.093		"	0.125		74.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.5	70-130			

Origins Laboratory



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 Denver CO 80205

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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 B4K1337 - EPA 5030 (soil)**

<b>Matrix Spike Dup (B4K1337-MSD1)</b>	<b>Source: E4K0340-01</b>		<b>Prepared: 11/13/2024 Analyzed: 11/14/2024</b>							
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100	ND	106	70-130	2.38	20	
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130	1.73	20	
Benzene	0.114	0.00200	"	0.100	0.00678	107	70-130	1.13	20	
Ethylbenzene	0.100	0.00200	"	0.100	ND	100	70-130	1.65	20	
Naphthalene	0.107	0.00380	"	0.100	ND	107	70-130	5.46	20	
Toluene	0.105	0.00200	"	0.100	0.00374	101	70-130	0.668	20	
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130	1.32	20	
m,p-Xylene	0.216	0.00400	"	0.200	ND	108	70-130	1.72	20	
Surrogate: 1,2-Dichloroethane-d4	0.093		"	0.125		74.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.3	70-130			

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Mike Dinkel  
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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
<b>Batch B4K1338 - EPA 3550B</b>										
<b>Blank (B4K1338-BLK1)</b>										
					Prepared: 11/13/2024 Analyzed: 11/14/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	19		"	24.9		76.4	50-150			

Origins Laboratory



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Mike Dinkel  
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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 B4K1338 - EPA 3550B**

**LCS (B4K1338-BS1)**

Prepared: 11/13/2024 Analyzed: 11/14/2024

Diesel (C10-C28)	934	50.0	mg/kg	1000		93.4	70-130			
Residual Range Organics (C28-C40)	969	200	"	1000		96.9	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.9	50-150			

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 Denver CO 80205

Mike Dinkel  
 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
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**Batch B4K1338 - EPA 3550B**

<b>Matrix Spike (B4K1338-MS1)</b>	<b>Source: E4K0340-01</b>			Prepared: 11/13/2024 Analyzed: 11/14/2024						
Diesel (C10-C28)	930	50.0	mg/kg	1000	ND	93.0	70-130			
Residual Range Organics (C28-C40)	977	200	"	1000	ND	97.7	70-130			
Surrogate: o-Terphenyl	47		"	49.8		95.4	50-150			

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 Denver CO 80205

Mike Dinkel  
 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
<b>Batch B4K1338 - EPA 3550B</b>										
<b>Matrix Spike Dup (B4K1338-MSD1)</b>			<b>Source: E4K0340-01</b>			Prepared: 11/13/2024 Analyzed: 11/14/2024				
Diesel (C10-C28)	987	50.0	mg/kg	1000	ND	98.7	70-130	5.90	35	
Residual Range Organics (C28-C40)	1060	200	"	1000	ND	106	70-130	8.39	35	
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

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 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
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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 B4K1341 - EPA 3050B**

**Blank (B4K1341-BLK1)**

Prepared: 11/13/2024 Analyzed: 11/14/2024

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 (B4K1341-BS1)**

Prepared: 11/13/2024 Analyzed: 11/14/2024

Arsenic	5.60	0.290	mg/kg	5.00		112	80-120
Barium	557	10.0	"	500		111	80-120
Cadmium	5.90	0.100	"	5.00		118	80-120
Copper	59.9	10.0	"	50.0		120	80-120
Lead	5.57	1.00	"	5.00		111	80-120
Nickel	5.84	1.00	"	5.00		117	80-120
Selenium	5.53	0.260	"	5.00		111	80-120
Silver	4.92	0.100	"	5.00		98.4	80-120
Zinc	57.8	37.0	"	50.0		116	80-120

**Matrix Spike (B4K1341-MS1)**

**Source: E4K0340-01**

Prepared: 11/13/2024 Analyzed: 11/14/2024

Origins Laboratory



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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 B4K1341 - EPA 3050B**

Matrix Spike (B4K1341-MS1)	Source: E4K0340-01				Prepared: 11/13/2024 Analyzed: 11/14/2024					
Arsenic	9.06	0.260	mg/kg	4.48	4.25	107	75-125			
Barium	483	8.96	"	448	26.5	102	75-125			
Cadmium	4.92	0.0896	"	4.48	0.0320	109	75-125			
Copper	52.9	8.96	"	44.8	3.33	111	75-125			
Lead	12.8	0.896	"	4.48	7.68	114	75-125			
Nickel	12.6	0.896	"	4.48	7.70	109	75-125			
Selenium	4.77	0.233	"	4.48	0.196	102	75-125			
Silver	5.08	0.0896	"	4.48	0.0142	113	75-125			
Zinc	79.7	33.1	"	44.8	31.5	107	75-125			
Matrix Spike Dup (B4K1341-MSD1)	Source: E4K0340-01				Prepared: 11/13/2024 Analyzed: 11/14/2024					
Arsenic	9.35	0.281	mg/kg	4.84	4.25	105	75-125	3.20	20	
Barium	545	9.69	"	484	26.5	107	75-125	12.1	20	
Cadmium	5.59	0.0969	"	4.84	0.0320	115	75-125	12.8	20	
Copper	57.9	9.69	"	48.4	3.33	113	75-125	9.05	20	
Lead	13.2	0.969	"	4.84	7.68	115	75-125	3.59	20	
Nickel	13.1	0.969	"	4.84	7.70	112	75-125	3.99	20	
Selenium	5.35	0.252	"	4.84	0.196	106	75-125	11.4	20	
Silver	4.69	0.0969	"	4.84	0.0142	96.6	75-125	7.86	20	
Zinc	83.1	35.8	"	48.4	31.5	106	75-125	4.19	20	

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, 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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Mike Dinkel  
Project Number: [none]  
Project: KMG - Kiteley 6-27

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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.

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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