



Ensolum

February 10, 2025

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Barclay 2-16k WH

Project Number - 09A14171053

Attached are your analytical results for KMG - Barclay 2-16k WH received by Origins Laboratory January 24, 2025. This project is associated with Origins project number E5A0509-01.

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



Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A14171053

Project: KMG - Barclay 2-16k WH

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01(2-16K)@6'	E5A0509-01	Soil	January 24, 2025 9:56	01/24/2025 16:05
B01(2-16K)@6'-V	E5A0509-02	Soil	January 24, 2025 10:00	01/24/2025 16:05
NATIVE-BG01@3'	E5A0509-03	Soil	January 24, 2025 10:50	01/24/2025 16:05
NATIVE-BG01@6'	E5A0509-04	Soil	January 24, 2025 10:55	01/24/2025 16:05
NATIVE-BG02@3'	E5A0509-05	Soil	January 24, 2025 11:08	01/24/2025 16:05
NATIVE-BG02@6'	E5A0509-06	Soil	January 24, 2025 11:12	01/24/2025 16:05
NATIVE-BG03@3'	E5A0509-07	Soil	January 24, 2025 11:36	01/24/2025 16:05
NATIVE-BG03@6'	E5A0509-08	Soil	January 24, 2025 11:40	01/24/2025 16:05
NATIVE-BG04@3'	E5A0509-09	Soil	January 24, 2025 11:49	01/24/2025 16:05
NATIVE-BG04@6'	E5A0509-10	Soil	January 24, 2025 11:52	01/24/2025 16:05

Origins Laboratory

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11049 W 44th Avenue, Suite 103  
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Jeremy Espinoza  
Project Number: 09A14171053  
Project: KMG - Barclay 2-16k WH

ORIGINS  
LABORATORY

ORIGINS WORK ORDER #

ES10509

Page 1 of 1

Client: Ensolum

Address: 11049 W 44th Ave. Ste. 100

Telephone Number: 11049 Barclay, CO 80033

Email Address: KMG-TEGIM

Project Manager: Jeremy Espinoza

Project Name: Barclay 2-16k WH

Project Number: 09A14171053

Collected By: JLE

Invoice/Billing Info: 11/24/15

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

L=Liquid

W=Water

SW=Surface Water

GW=Groundwater

Key:

W=Water

SW=Surface Water

GW=Groundwater

#	Sample ID	Date	Time	# of Containers	Matrix	Preservative	Analysis	Comments
1	Boil (2-16k) EL-V	11/24/15	0956	3	5	UNP	Full List P4 EC SP12 Boron 915-1 Metals	
2	Boil (2-16k) EL-V	11/24/15	1000	3	5	UNP		
3	NATIVE-BG01E6	11/24/15	1050	2	1		XXXXXX	
4	NATIVE-BG01E6	11/24/15	1055	1	1		XXXXXX	
5	NATIVE-BG02E3	11/24/15	1108	1	1			
6	NATIVE-BG02E6	11/24/15	1112	1	1			
7	NATIVE-BG03E3	11/24/15	1136	1	1			
8	NATIVE-BG03E6	11/24/15	1140	1	1			
9	NATIVE-BG04E3	11/24/15	1144	1	1			
10	NATIVE-BG04E6	11/24/15	1152	1	1			

Relinquished By: [Signature] Date: 11/24/15 Time: 1605  
Received By: [Signature] Date: 11/24/15 Time: 1605

Temp Received: 0.8 Received On Ice? ☒ Yes ☐ No

Turnaround Time  
☒ SAME DAY ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr

Standard

Origins Laboratory

Byron

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Jeremy Espinoza

Project Number: 09A14171053

Project: KMG - Barclay 2-16k WH

Origins Laboratory

## Sample Receipt Checklist

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

Origins Work Order: ESAC009

Client: Ensolum

Client Project ID: Barclay 2-16

Checklist Completed by: VS / sem

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 1/24/12

Airbill #: N/A

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

✓ Water

✓ Other:

(Describe)

Cooler Number/Temperature: 1 / 0.8 °C

Thermometer ID: food

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> ?	<u>✓</u>			
Is there ice present (document if blue ice is used)	<u>✓</u>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<u>✓</u>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<u>✓</u>		
Were all samples received intact <sup>(1)</sup> ?	<u>✓</u>			
Was adequate sample volume provided <sup>(1)</sup> ?	<u>✓</u>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?			<u>✓</u>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<u>✓</u>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<u>✓</u>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<u>✓</u>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<u>✓</u>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<u>✓</u>	
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)			<u>✓</u>	
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) VS

Date/Time Reviewed 1/24/12

Origins Laboratory

*J. Bynon*

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Jeremy Espinoza  
Project Number: 09A14171053  
Project: KMG - Barclay 2-16k WH

B01(2-16K)@6'

1/24/2025 9:56:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
E5A0509-01 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.126	0.0989	mg/L	1	B5A2703	01/27/2025	01/28/2025	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B5A2419	01/24/2025	01/24/2025	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	119 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B5A2418	01/24/2025	01/26/2025	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	114 %	70-130			"	"	"	
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B01(2-16K)@6'

1/24/2025 9:56:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
E5A0509-01 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	92.9 %	70-130	B5A24 18	01/24/2025	01/26/2025
Surrogate: 4-Bromofluorobenzene	99.9 %	70-130	"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	1.13	0.499	meq/L	10	[CALC]	01/27/2025	01/29/2025
Magnesium	1.31	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5A2421	01/24/2025	01/24/2025	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	U

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B01(2-16K)@6'

1/24/2025 9:56:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory

E5A0509-01 (Soil)

### PAH by EPA 8270E extracted via 3580A

Fluorene	ND	0.020	mg/kg	1	B5A2421	01/24/2025	01/24/2025	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	ND	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	97.7 %	60-130	"	"	"
Surrogate: Anthracene-d10	91.9 %	60-130	"	"	"
Surrogate: Pyrene-d10	109 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	114 %	60-130	"	"	"

### pH in Soil by 9045D

pH	8.37	pH Units	1	B5A2714	01/27/2025	01/28/2025
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### SAR by 20B Saturated Paste

SAR	0.393	0.0100	SAR	1	B5A2709	01/27/2025	01/29/2025
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.372	0.00500	mmhos/cm	1	B5A2714	01/27/2025	01/28/2025
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### Table 915 metals by EPA 6020B

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**B01(2-16K)@6'**

**1/24/2025 9:56:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E5A0509-01 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	4.73	0.285	mg/kg	10	B5A2423	01/24/2025	01/25/2025
Barium	87.8	9.81	"	"	"	"	"
Cadmium	0.128	0.0981	"	"	"	"	"
Copper	10.5	9.81	"	"	"	"	"
Lead	11.0	0.981	"	"	"	"	"
Nickel	13.1	0.981	"	"	"	"	"
Selenium	ND	0.255	"	"	"	"	"
Silver	ND	0.0981	"	"	"	"	"
Zinc	47.0	36.3	"	"	"	"	"

**Total Metals 7196A**

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	A99592	01/24/2025	02/04/2025
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Origins Laboratory



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Project Number: 09A14171053

Project: KMG - Barclay 2-16k WH

B01(2-16K)@6'-V

1/24/2025 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E5A0509-02 (Soil)

pH in Soil by 9045D

pH	8.35		pH Units	1	B5A2718	01/27/2025	01/27/2025
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Project: KMG - Barclay 2-16k WH

**NATIVE-BG01@3'**

**1/24/2025 10:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E5A0509-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.166	0.0994	mg/L	1	B5A2703	01/27/2025	01/28/2025
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.11	0.499	meq/L	10	[CALC]	01/27/2025	01/29/2025
Magnesium	1.53	0.823	"	"	"	"	"
Sodium	0.498	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.34		pH Units	1	B5A2714	01/27/2025	01/28/2025
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**SAR by 20B Saturated Paste**

SAR	0.369	0.0100	SAR	1	B5A2709	01/27/2025	01/29/2025
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.473	0.00500	mmhos/cm	1	B5A2714	01/27/2025	01/28/2025
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**Table 915 metals by EPA 6020B**

Arsenic	3.14	0.279	mg/kg	10	B5A2423	01/24/2025	01/25/2025
Barium	85.9	9.62	"	"	"	"	"
Cadmium	0.200	0.0962	"	"	"	"	"
Copper	ND	9.62	"	"	"	"	"

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Project Number: 09A14171053

Project: KMG - Barclay 2-16k WH

NATIVE-BG01@3'

1/24/2025 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory

E5A0509-03 (Soil)

### Table 915 metals by EPA 6020B

Lead	6.94		0.962	mg/kg	10	B5A2423	01/24/2025	01/25/2025	
Nickel	8.63		0.962	"	"	"	"	"	
Selenium	ND		0.250	"	"	"	"	"	
Silver	ND		0.0962	"	"	"	"	"	
Zinc	ND		35.6	"	"	"	"	"	

### Total Metals 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	A99592	01/24/2025	02/04/2025	
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Jeremy Espinoza  
Project Number: 09A14171053  
Project: KMG - Barclay 2-16k WH

NATIVE-BG01@6'

1/24/2025 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
E5A0509-04 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.358	0.101	mg/L	1	B5A2704	01/27/2025	01/28/2025
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.29	0.499	meq/L	10	[CALC]	01/27/2025	01/29/2025
Magnesium	1.33	0.823	"	"	"	"	"
Sodium	1.33	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.17		pH Units	1	B5A2715	01/27/2025	01/28/2025
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**SAR by 20B Saturated Paste**

SAR	1.16	0.0100	SAR	1	B5A2710	01/27/2025	01/29/2025
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.454	0.00500	mmhos/cm	1	B5A2715	01/27/2025	01/28/2025
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**Table 915 metals by EPA 6020B**

Arsenic	3.65	0.280	mg/kg	10	B5A2423	01/24/2025	01/25/2025
Barium	125	9.66	"	"	"	"	"
Cadmium	0.205	0.0966	"	"	"	"	"
Copper	12.5	9.66	"	"	"	"	"

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Project Number: 09A14171053

Project: KMG - Barclay 2-16k WH

NATIVE-BG01@6'

1/24/2025 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E5A0509-04 (Soil)

Table 915 metals by EPA 6020B

Lead	10.2	0.966	mg/kg	10	B5A2423	01/24/2025	01/25/2025
Nickel	10.2	0.966	"	"	"	"	"
Selenium	0.479	0.251	"	"	"	"	"
Silver	ND	0.0966	"	"	"	"	"
Zinc	44.1	35.8	"	"	"	"	"

Total Metals 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	A99592	01/24/2025	02/04/2025
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**NATIVE-BG02@3'**

**1/24/2025 11:08:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E5A0509-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.215	0.0988	mg/L	1	B5A2704	01/27/2025	01/28/2025
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.52	0.499	meq/L	10	[CALC]	01/27/2025	01/29/2025
Magnesium	0.968	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.23		pH Units	1	B5A2715	01/27/2025	01/28/2025
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**SAR by 20B Saturated Paste**

SAR	0.355	0.0100	SAR	1	B5A2710	01/27/2025	01/29/2025
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.343	0.00500	mmhos/cm	1	B5A2715	01/27/2025	01/28/2025
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**Table 915 metals by EPA 6020B**

Arsenic	3.55	0.260	mg/kg	10	B5A2423	01/24/2025	01/25/2025
Barium	110	8.96	"	"	"	"	"
Cadmium	0.191	0.0896	"	"	"	"	"
Copper	ND	8.96	"	"	"	"	"

Origins Laboratory

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Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A14171053  
Project: KMG - Barclay 2-16k WH

NATIVE-BG02@3'

1/24/2025 11:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
E5A0509-05 (Soil)

**Table 915 metals by EPA 6020B**

Lead	8.00		0.896	mg/kg	10	B5A2423	01/24/2025	01/25/2025	
Nickel	8.95		0.896	"	"	"	"	"	
Selenium	ND		0.233	"	"	"	"	"	
Silver	ND		0.0896	"	"	"	"	"	
Zinc	ND		33.1	"	"	"	"	"	

**Total Metals 7196A**

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	A99592	01/24/2025	02/04/2025	
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Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A14171053  
Project: KMG - Barclay 2-16k WH

**NATIVE-BG02@6'**

**1/24/2025 11:12:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E5A0509-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.795	0.101	mg/L	1	B5A2704	01/27/2025	01/28/2025
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.51	0.499	meq/L	10	[CALC]	01/27/2025	01/29/2025
Magnesium	3.16	0.823	"	"	"	"	"
Sodium	4.96	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.29		pH Units	1	B5A2715	01/27/2025	01/28/2025
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**SAR by 20B Saturated Paste**

SAR	2.95	0.0100	SAR	1	B5A2710	01/27/2025	01/29/2025
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.20	0.00500	mmhos/cm	1	B5A2715	01/27/2025	01/28/2025
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**Table 915 metals by EPA 6020B**

Arsenic	5.41	0.260	mg/kg	10	B5A2423	01/24/2025	01/25/2025
Barium	216	8.95	"	"	"	"	"
Cadmium	0.240	0.0895	"	"	"	"	"
Copper	14.4	8.95	"	"	"	"	"

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Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A14171053  
Project: KMG - Barclay 2-16k WH

## NATIVE-BG02@6'

1/24/2025 11:12:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory

E5A0509-06 (Soil)

### Table 915 metals by EPA 6020B

Lead	18.4	0.895	mg/kg	10	B5A2423	01/24/2025	01/25/2025
Nickel	10.1	0.895	"	"	"	"	"
Selenium	ND	0.233	"	"	"	"	"
Silver	ND	0.0895	"	"	"	"	"
Zinc	42.1	33.1	"	"	"	"	"

### Total Metals 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	A99592	01/24/2025	02/04/2025
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Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A14171053  
Project: KMG - Barclay 2-16k WH

**NATIVE-BG03@3'**

**1/24/2025 11:36:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E5A0509-07 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.223	0.102	mg/L	1	B5A2704	01/27/2025	01/28/2025
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.54	0.499	meq/L	10	[CALC]	01/27/2025	01/29/2025
Magnesium	0.866	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.16		pH Units	1	B5A2715	01/27/2025	01/28/2025
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**SAR by 20B Saturated Paste**

SAR	0.339	0.0100	SAR	1	B5A2710	01/27/2025	01/29/2025
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.349	0.00500	mmhos/cm	1	B5A2715	01/27/2025	01/28/2025
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**Table 915 metals by EPA 6020B**

Arsenic	2.82	0.273	mg/kg	10	B5A2423	01/24/2025	01/25/2025
Barium	98.6	9.43	"	"	"	"	"
Cadmium	0.148	0.0943	"	"	"	"	"
Copper	ND	9.43	"	"	"	"	"

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A14171053

Project: KMG - Barclay 2-16k WH

NATIVE-BG03@3'

1/24/2025 11:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E5A0509-07 (Soil)

### Table 915 metals by EPA 6020B

Lead	7.95		0.943	mg/kg	10	B5A2423	01/24/2025	01/25/2025	
Nickel	8.43		0.943	"	"	"	"	"	
Selenium	ND		0.245	"	"	"	"	"	
Silver	ND		0.0943	"	"	"	"	"	
Zinc	ND		34.9	"	"	"	"	"	

### Total Metals 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	A99592	01/24/2025	02/04/2025	
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Jeremy Espinoza  
Project Number: 09A14171053  
Project: KMG - Barclay 2-16k WH

**NATIVE-BG03@6'**

**1/24/2025 11:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E5A0509-08 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.557	0.101	mg/L	1	B5A2704	01/27/2025	01/28/2025
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.37	0.499	meq/L	10	[CALC]	01/27/2025	01/29/2025
Magnesium	2.83	0.823	"	"	"	"	"
Sodium	4.08	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.26		pH Units	1	B5A2715	01/27/2025	01/28/2025
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**SAR by 20B Saturated Paste**

SAR	2.53	0.0100	SAR	1	B5A2710	01/27/2025	01/29/2025
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.09	0.00500	mmhos/cm	1	B5A2715	01/27/2025	01/28/2025
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**Table 915 metals by EPA 6020B**

Arsenic	4.92	0.273	mg/kg	10	B5A2423	01/24/2025	01/25/2025
Barium	343	9.43	"	"	"	"	"
Cadmium	0.266	0.0943	"	"	"	"	"
Copper	14.0	9.43	"	"	"	"	"

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Jeremy Espinoza  
Project Number: 09A14171053  
Project: KMG - Barclay 2-16k WH

NATIVE-BG03@6'

1/24/2025 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
E5A0509-08 (Soil)

**Table 915 metals by EPA 6020B**

Lead	18.3		0.943	mg/kg	10	B5A2423	01/24/2025	01/25/2025	
Nickel	11.3		0.943	"	"	"	"	"	
Selenium	0.329		0.245	"	"	"	"	"	
Silver	ND		0.0943	"	"	"	"	"	
Zinc	43.5		34.9	"	"	"	"	"	

**Total Metals 7196A**

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	A99592	01/24/2025	02/04/2025	
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Jeremy Espinoza  
Project Number: 09A14171053  
Project: KMG - Barclay 2-16k WH

**NATIVE-BG04@3'**

**1/24/2025 11:49:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E5A0509-09 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.248	0.100	mg/L	1	B5A2704	01/27/2025	01/28/2025
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.883	0.499	meq/L	10	[CALC]	01/27/2025	01/29/2025
Magnesium	1.22	0.823	"	"	"	"	"
Sodium	0.549	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.39		pH Units	1	B5A2715	01/27/2025	01/28/2025
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**SAR by 20B Saturated Paste**

SAR	0.535	0.0100	SAR	1	B5A2710	01/27/2025	01/29/2025
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.318	0.00500	mmhos/cm	1	B5A2715	01/27/2025	01/28/2025
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**Table 915 metals by EPA 6020B**

Arsenic	6.15	0.261	mg/kg	10	B5A2423	01/24/2025	01/25/2025
Barium	561	9.00	"	"	"	"	"
Cadmium	0.207	0.0900	"	"	"	"	"
Copper	12.4	9.00	"	"	"	"	"

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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A14171053

Project: KMG - Barclay 2-16k WH

NATIVE-BG04@3'

1/24/2025 11:49:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E5A0509-09 (Soil)

### Table 915 metals by EPA 6020B

Lead	9.95	0.900	mg/kg	10	B5A2423	01/24/2025	01/25/2025
Nickel	12.6	0.900	"	"	"	"	"
Selenium	0.356	0.234	"	"	"	"	"
Silver	ND	0.0900	"	"	"	"	"
Zinc	45.3	33.3	"	"	"	"	"

### Total Metals 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	A99592	01/24/2025	02/04/2025
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Jeremy Espinoza  
Project Number: 09A14171053  
Project: KMG - Barclay 2-16k WH

**NATIVE-BG04@6'**

**1/24/2025 11:52:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E5A0509-10 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.189	0.101	mg/L	1	B5A2704	01/27/2025	01/28/2025
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.695	0.499	meq/L	10	[CALC]	01/27/2025	01/29/2025
Magnesium	1.64	0.823	"	"	"	"	"
Sodium	0.661	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.39		pH Units	1	B5A2715	01/27/2025	01/28/2025
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**SAR by 20B Saturated Paste**

SAR	0.612	0.0100	SAR	1	B5A2710	01/27/2025	01/29/2025
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.362	0.00500	mmhos/cm	1	B5A2715	01/27/2025	01/28/2025
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**Table 915 metals by EPA 6020B**

Arsenic	2.59	0.269	mg/kg	10	B5A2423	01/24/2025	01/25/2025
Barium	70.9	9.27	"	"	"	"	"
Cadmium	0.0973	0.0927	"	"	"	"	"
Copper	9.35	9.27	"	"	"	"	"

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A14171053

Project: KMG - Barclay 2-16k WH

NATIVE-BG04@6'

1/24/2025 11:52:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory

E5A0509-10 (Soil)

### Table 915 metals by EPA 6020B

Lead	8.36		0.927	mg/kg	10	B5A2423	01/24/2025	01/25/2025	
Nickel	7.62		0.927	"	"	"	"	"	
Selenium	ND		0.241	"	"	"	"	"	
Silver	ND		0.0927	"	"	"	"	"	
Zinc	46.1		34.3	"	"	"	"	"	

### Total Metals 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	A99592	01/24/2025	02/04/2025	
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11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A14171053  
Project: KMG - Barclay 2-16k WH

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
Batch B5A2418 - EPA 5030 (soil)										
Blank (B5A2418-BLK1)					Prepared: 01/24/2025 Analyzed: 01/26/2025					
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	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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Project Number: 09A14171053  
Project: KMG - Barclay 2-16k WH

**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
Batch B5A2418 - EPA 5030 (soil)										
LCS (B5A2418-BS1)					Prepared: 01/24/2025 Analyzed: 01/26/2025					
1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Benzene	0.100	0.00200	"	0.100		100	70-130			
Ethylbenzene	0.0996	0.00200	"	0.100		99.6	70-130			
Naphthalene	0.106	0.00380	"	0.100		106	70-130			
Toluene	0.0961	0.00200	"	0.100		96.1	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.201	0.00400	"	0.200		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Project Number: 09A14171053  
Project: KMG - Barclay 2-16k WH

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
Batch B5A2418 - EPA 5030 (soil)										
Matrix Spike (B5A2418-MS1)		Source: E5A0501-07			Prepared: 01/24/2025 Analyzed: 01/26/2025					
1,2,4-Trimethylbenzene	0.0993	0.00200	mg/kg	0.100	ND	99.3	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130			
Benzene	0.0911	0.00200	"	0.100	ND	91.1	70-130			
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Naphthalene	0.0593	0.00380	"	0.100	ND	59.3	70-130			QM-07
Toluene	0.0884	0.00200	"	0.100	ND	88.4	70-130			
o-Xylene	0.0975	0.00200	"	0.100	ND	97.5	70-130			
m,p-Xylene	0.202	0.00400	"	0.200	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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Jeremy Espinoza  
Project Number: 09A14171053  
Project: KMG - Barclay 2-16k WH

**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
Batch B5A2418 - EPA 5030 (soil)										
Matrix Spike Dup (B5A2418-MSD1)			Source: E5A0501-07		Prepared: 01/24/2025 Analyzed: 01/26/2025					
1,2,4-Trimethylbenzene	0.0902	0.00200	mg/kg	0.100	ND	90.2	70-130	9.54	20	
1,3,5-Trimethylbenzene	0.0910	0.00200	"	0.100	ND	91.0	70-130	11.8	20	
Benzene	0.0911	0.00200	"	0.100	ND	91.1	70-130	0.0659	20	
Ethylbenzene	0.0876	0.00200	"	0.100	ND	87.6	70-130	14.2	20	
Naphthalene	0.0669	0.00380	"	0.100	ND	66.9	70-130	12.0	20	QM-07
Toluene	0.0848	0.00200	"	0.100	ND	84.8	70-130	4.13	20	
o-Xylene	0.0877	0.00200	"	0.100	ND	87.7	70-130	10.6	20	
m,p-Xylene	0.178	0.00400	"	0.200	ND	88.9	70-130	12.7	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A14171053  
Project: KMG - Barclay 2-16k WH

**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
Batch B5A2419 - EPA 3550B										
Blank (B5A2419-BLK1)					Prepared: 01/24/2025 Analyzed: 01/24/2025					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		102	50-150			

Origins Laboratory

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Project Number: 09A14171053  
Project: KMG - Barclay 2-16k WH

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 B5A2419 - EPA 3550B

LCS (B5A2419-BS1)

Prepared: 01/24/2025 Analyzed: 01/24/2025

Diesel (C10-C28)	1200	50.0	mg/kg	1000		120	70-130			
Residual Range Organics (C28-C40)	1290	200	"	1000		129	70-130			
Surrogate: o-Terphenyl	57		"	49.8		114	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 B5A2419 - EPA 3550B										
Matrix Spike (B5A2419-MS1)		Source: E5A0501-07			Prepared: 01/24/2025 Analyzed: 01/24/2025					
Diesel (C10-C28)	957	50.0	mg/kg	1000	ND	95.7	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130			
Surrogate: o-Terphenyl	45		"	49.8		91.1	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
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Batch B5A2419 - EPA 3550B

Matrix Spike Dup (B5A2419-MSD1)		Source: E5A0501-07			Prepared: 01/24/2025 Analyzed: 01/24/2025					
Diesel (C10-C28)	927	50.0	mg/kg	1000	ND	92.7	70-130	3.24	35	
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	70-130	2.84	35	
Surrogate: o-Terphenyl	45		"	49.8		89.5	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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**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 B5A2423 - EPA 3050B**

**Blank (B5A2423-BLK1)**

Prepared: 01/24/2025 Analyzed: 01/25/2025

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

**LCS (B5A2423-BS1)**

Prepared: 01/24/2025 Analyzed: 01/25/2025

Arsenic	4.92	0.290	mg/kg	5.00	98.4	80-120
Barium	506	10.0	"	500	101	80-120
Cadmium	5.37	0.100	"	5.00	107	80-120
Copper	50.2	10.0	"	50.0	100	80-120
Lead	5.04	1.00	"	5.00	101	80-120
Nickel	5.16	1.00	"	5.00	103	80-120
Selenium	5.68	0.260	"	5.00	114	80-120
Silver	5.37	0.100	"	5.00	107	80-120
Zinc	48.9	37.0	"	50.0	97.7	80-120

**Matrix Spike (B5A2423-MS1)**

Source: E5A0509-10

Prepared: 01/24/2025 Analyzed: 01/25/2025

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Project: KMG - Barclay 2-16k WH

**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 B5A2423 - EPA 3050B**

Matrix Spike (B5A2423-MS1)		Source: E5A0509-10			Prepared: 01/24/2025 Analyzed: 01/25/2025					
Arsenic	6.40	0.256	mg/kg	4.41	2.59	86.4	75-125			
Barium	622	8.83	"	441	70.9	125	75-125			
Cadmium	4.59	0.0883	"	4.41	0.0973	102	75-125			
Copper	55.6	8.83	"	44.1	9.35	105	75-125			
Lead	13.3	0.883	"	4.41	8.36	111	75-125			
Nickel	12.7	0.883	"	4.41	7.62	115	75-125			
Selenium	3.99	0.230	"	4.41	0.202	85.7	75-125			
Silver	4.53	0.0883	"	4.41	0.0232	102	75-125			
Zinc	91.9	32.7	"	44.1	46.1	104	75-125			
Matrix Spike Dup (B5A2423-MSD1)		Source: E5A0509-10			Prepared: 01/24/2025 Analyzed: 01/25/2025					
Arsenic	6.95	0.286	mg/kg	4.93	2.59	88.6	75-125	8.29	20	
Barium	606	9.86	"	493	70.9	109	75-125	2.57	20	
Cadmium	5.25	0.0986	"	4.93	0.0973	105	75-125	13.4	20	
Copper	59.7	9.86	"	49.3	9.35	102	75-125	7.15	20	
Lead	14.0	0.986	"	4.93	8.36	115	75-125	5.55	20	
Nickel	13.1	0.986	"	4.93	7.62	110	75-125	2.72	20	
Selenium	4.31	0.256	"	4.93	0.202	83.3	75-125	7.72	20	
Silver	5.03	0.0986	"	4.93	0.0232	102	75-125	10.4	20	
Zinc	98.7	36.5	"	49.3	46.1	107	75-125	7.08	20	

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Project Number: 09A14171053  
Project: KMG - Barclay 2-16k WH

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B5A2421 - EPA 3580

Blank (B5A2421-BLK1)

Prepared: 01/24/2025 Analyzed: 01/24/2025

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U

Surrogate: Fluorene-d10	190		ug/kg	200	96.8	60-130
Surrogate: Anthracene-d10	200		"	200	97.9	60-130
Surrogate: Pyrene-d10	200		"	200	99.4	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200	104	60-130

LCS (B5A2421-BS1)

Prepared: 01/24/2025 Analyzed: 01/24/2025

1-Methylnaphthalene	0.211	0.002	mg/kg	0.200	106	70-130
2-Methylnaphthalene	0.210	0.002	"	0.200	105	70-130
Acenaphthene	0.213	0.020	"	0.200	107	70-130
Anthracene	0.209	0.020	"	0.200	105	70-130

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Project: KMG - Barclay 2-16k WH

**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B5A2421 - EPA 3580**

**LCS (B5A2421-BS1)**

Prepared: 01/24/2025 Analyzed: 01/24/2025

Benzo (a) anthracene	0.215	0.005	mg/kg	0.200		108	70-130
Benzo (a) pyrene	0.225	0.020	"	0.200		113	70-130
Benzo (b) fluoranthene	0.219	0.020	"	0.200		110	70-130
Benzo (g,h,i) perylene	0.229	0.020	"	0.200		114	70-130
Benzo (k) fluoranthene	0.229	0.020	"	0.200		115	70-130
Chrysene	0.212	0.020	"	0.200		106	70-130
Dibenz (a,h) anthracene	0.219	0.020	"	0.200		109	70-130
Fluoranthene	0.228	0.020	"	0.200		114	70-130
Fluorene	0.208	0.020	"	0.200		104	70-130
Indeno (1,2,3-cd) pyrene	0.229	0.020	"	0.200		114	70-130
Naphthalene	0.214	0.002	"	0.200		107	70-130
Phenanthrene	0.215	0.020	"	0.200		107	70-130
Pyrene	0.226	0.020	"	0.200		113	70-130

Surrogate: Fluorene-d10	200		ug/kg	200		98.4	60-130
Surrogate: Anthracene-d10	190		"	200		95.8	60-130
Surrogate: Pyrene-d10	210		"	200		103	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130

**Matrix Spike (B5A2421-MS1)**

**Source: E5A0501-07**

Prepared: 01/24/2025 Analyzed: 01/24/2025

1-Methylnaphthalene	0.219	0.002	mg/kg	0.200	0.001	109	70-130
2-Methylnaphthalene	0.217	0.002	"	0.200	ND	109	70-130
Acenaphthene	0.220	0.020	"	0.200	0.0006	110	70-130
Anthracene	0.220	0.020	"	0.200	ND	110	70-130
Benzo (a) anthracene	0.215	0.005	"	0.200	0.002	106	70-130
Benzo (a) pyrene	0.225	0.020	"	0.200	0.004	110	70-130
Benzo (b) fluoranthene	0.236	0.020	"	0.200	0.002	117	70-130
Benzo (g,h,i) perylene	0.234	0.020	"	0.200	0.003	115	70-130

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Project Number: 09A14171053  
Project: KMG - Barclay 2-16k WH

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B5A2421 - EPA 3580</b>										
<b>Matrix Spike (B5A2421-MS1)</b>		<b>Source: E5A0501-07</b>			Prepared: 01/24/2025 Analyzed: 01/24/2025					
Benzo (k) fluoranthene	0.195	0.020	mg/kg	0.200	0.001	96.8	70-130			
Chrysene	0.232	0.020	"	0.200	0.003	115	70-130			
Dibenz (a,h) anthracene	0.229	0.020	"	0.200	0.001	114	70-130			
Fluoranthene	0.229	0.020	"	0.200	0.002	114	70-130			
Fluorene	0.215	0.020	"	0.200	0.001	107	70-130			
Indeno (1,2,3-cd) pyrene	0.239	0.020	"	0.200	0.002	118	70-130			
Naphthalene	0.218	0.002	"	0.200	ND	109	70-130			
Phenanthrene	0.230	0.020	"	0.200	0.0002	115	70-130			
Pyrene	0.236	0.020	"	0.200	0.002	117	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		97.9	60-130			
Surrogate: Anthracene-d10	200		"	200		98.9	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			
<b>Matrix Spike Dup (B5A2421-MSD1)</b>		<b>Source: E5A0501-07</b>			Prepared: 01/24/2025 Analyzed: 01/24/2025					
1-Methylnaphthalene	0.222	0.002	mg/kg	0.200	0.001	110	70-130	1.18	20	
2-Methylnaphthalene	0.220	0.002	"	0.200	ND	110	70-130	0.982	20	
Acenaphthene	0.222	0.020	"	0.200	0.0006	111	70-130	0.667	20	
Anthracene	0.222	0.020	"	0.200	ND	111	70-130	0.904	20	
Benzo (a) anthracene	0.230	0.005	"	0.200	0.002	114	70-130	6.57	20	
Benzo (a) pyrene	0.233	0.020	"	0.200	0.004	114	70-130	3.61	20	
Benzo (b) fluoranthene	0.234	0.020	"	0.200	0.002	116	70-130	0.811	20	
Benzo (g,h,i) perylene	0.252	0.020	"	0.200	0.003	125	70-130	7.70	20	
Benzo (k) fluoranthene	0.234	0.020	"	0.200	0.001	116	70-130	18.1	20	
Chrysene	0.236	0.020	"	0.200	0.003	117	70-130	1.38	20	
Dibenz (a,h) anthracene	0.225	0.020	"	0.200	0.001	112	70-130	2.01	20	
Fluoranthene	0.268	0.020	"	0.200	0.002	133	70-130	15.5	20	QM-07

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EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B5A2421 - EPA 3580

Matrix Spike Dup (B5A2421-MSD1)		Source: E5A0501-07			Prepared: 01/24/2025 Analyzed: 01/24/2025					
Fluorene	0.215	0.020	mg/kg	0.200	0.001	107	70-130	0.0405	20	
Indeno (1,2,3-cd) pyrene	0.235	0.020	"	0.200	0.002	116	70-130	1.70	20	
Naphthalene	0.223	0.002	"	0.200	ND	111	70-130	2.03	20	
Phenanthrene	0.228	0.020	"	0.200	0.0002	114	70-130	1.08	20	
Pyrene	0.268	0.020	"	0.200	0.002	133	70-130	12.5	20	QM-07
Surrogate: Fluorene-d10	190		ug/kg	200		95.3	60-130			
Surrogate: Anthracene-d10	190		"	200		94.5	60-130			
Surrogate: Pyrene-d10	210		"	200		105	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

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Classical Chemistry Parameters - 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 B5A2703 - DTPA Sorbitol Preparation

Blank (B5A2703-BLK1)

Prepared: 01/27/2025 Analyzed: 01/28/2025

Boron ND 0.100 mg/L

Duplicate (B5A2703-DUP1)

Source: E5A0503-01

Prepared: 01/27/2025 Analyzed: 01/28/2025

Boron 0.996 0.0996 mg/L 0.979 1.74 50

Batch B5A2704 - DTPA Sorbitol Preparation

Blank (B5A2704-BLK1)

Prepared: 01/27/2025 Analyzed: 01/28/2025

Boron ND 0.100 mg/L

Duplicate (B5A2704-DUP1)

Source: E5A0509-04

Prepared: 01/27/2025 Analyzed: 01/28/2025

Boron 0.334 0.101 mg/L 0.358 6.96 50

Batch B5A2709 - Saturated Paste Metals

Blank (B5A2709-BLK1)

Prepared: 01/27/2025 Analyzed: 01/29/2025

SAR ND 0.0100 SAR  
Calcium PPM ND 10.0 mg/L  
Magnesium PPM ND 10.0 "  
Sodium PPM ND 10.0 "

Duplicate (B5A2709-DUP1)

Source: E5A0503-01

Prepared: 01/27/2025 Analyzed: 01/29/2025

Calcium PPM 274 10.0 mg/L 258 5.87 50  
SAR ND 0.0100 SAR 3.72 200  
Magnesium PPM 147 10.0 mg/L 136 7.65 50  
Sodium PPM 314 10.0 " 297 5.53 50

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Project: KMG - Barclay 2-16k WH

Classical Chemistry Parameters - Quality Control  
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5A2710 - Saturated Paste Metals										
Blank (B5A2710-BLK1)					Prepared: 01/27/2025 Analyzed: 01/29/2025					
Calcium PPM	ND	10.0	mg/L							
SAR	ND	0.0100	SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							
Duplicate (B5A2710-DUP1)					Source: E5A0509-04		Prepared: 01/27/2025 Analyzed: 01/29/2025			
SAR	ND	0.0100	SAR		1.16				200	
Calcium PPM	27.1	10.0	mg/L		25.9			4.49	50	
Magnesium PPM	16.4	10.0	"		16.2			1.04	50	
Sodium PPM	29.9	10.0	"		30.7			2.38	50	

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Project: KMG - Barclay 2-16k WH

**Saturated Paste - 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 B5A2714 - Saturated Paste pH/EC**

**Blank (B5A2714-BLK1)**

Prepared: 01/27/2025 Analyzed: 01/28/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B5A2714-DUP1)**

**Source: E5A0503-01**

Prepared: 01/27/2025 Analyzed: 01/28/2025

Specific Conductance (EC)	3.09	0.00500	mmhos/cm	3.01	2.49	25
pH	8.01		pH Units	8.05	0.498	25

**Batch B5A2715 - Saturated Paste pH/EC**

**Blank (B5A2715-BLK1)**

Prepared: 01/27/2025 Analyzed: 01/28/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B5A2715-DUP1)**

**Source: E5A0509-04**

Prepared: 01/27/2025 Analyzed: 01/28/2025

pH	8.21		pH Units	8.17	0.488	25
Specific Conductance (EC)	0.461	0.00500	mmhos/cm	0.454	1.60	25

**Batch B5A2718 - Saturated Paste pH/EC**

**Duplicate (B5A2718-DUP1)**

**Source: E5A0507-01**

Prepared: 01/27/2025 Analyzed: 01/27/2025

pH	8.05		pH Units	8.15	1.23	25
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*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.*



Ensolum  
11049 W 44th Avenue, Suite 103  
Wheat Ridge CO 80033

Jeremy Espinoza  
Project Number: 09A14171053  
Project: KMG - Barclay 2-16k WH

Total Metals 7196A - Quality Control  
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A99592 -										
DUP (L 93965-DUP)										
Source: E5A0509-01					Prepared: Analyzed: 02/04/2025					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 93965-MS)										
Source: E5A0509-01					Prepared: Analyzed: 02/04/2025					
Chromium, Hexavalent	6.32	0.5	mg/Kg	7.89	<0.244	80	75-125			
LCS (LCS)										
					Prepared: Analyzed: 02/04/2025					
Chromium, Hexavalent	7.23	0.5	mg/Kg	7.95		91	75-125			
LRB (LRB)										
					Prepared: Analyzed: 02/04/2025					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A14171053

Project: KMG - Barclay 2-16k WH

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### Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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

A handwritten signature in black ink, appearing to read "J. Bynon".

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