



Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

June 05, 2025

Project Name - kmg - Barclay 2-16K & Barclay Farms L11-27D WHs

Project Number - 09A14171053

Attached are your analytical results for kmg - Barclay 2-16K & Barclay Farms L11-27D WHs received by Origins Laboratory May 16, 2025. This project is associated with Origins project number E5E0593-01.

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



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Project Number: 09A14171053

Project: kmg - Barclay 2-16K & Barclay Farms
L11-27D WHs

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01(2-16k,L11-27D)@4'	E5E0593-01	Soil	May 16, 2025 14:43	05/16/2025 17:14
FL01(2-16k,L11-27D)@4'-V	E5E0593-02	Soil	May 16, 2025 14:43	05/16/2025 17:14

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L11-27D WHs

ORIGINS
LABORATORY

CREATING VALUE THROUGH ANALYTICAL

ES20079

Page 1 of 1

Client: Ensolum
Address: _____
Project Manager: Jeremy Espinoza
Project Name: Barclay 2-16K & Barclay Farms L11-27D WHs
Key: _____
M=Water
SW=Surface Water
GW=Groundwater
HW=Household Water
L=Liquid

Telephone Number: _____
Email Address: KMG@ensu.com
Collected By: Barclay, A.H.
Invoiced/Billing Info: Sub
SW=Surface Water
HW=Household 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	Time	# of Containers	Matrix	Preservative	Full List	Analysis	Comments
1	Full (KMG) L11-27D WHs	5/16/25	14:30	3	5	UNP	X		Prohibit partial
2	Full (KMG) L11-27D WHs	5/16/25	14:30	3	5	UNP	X		Reporting for
3									in house samples
4									
5									
6									
7									
8									
9									
10									

Relinquished By: Barclay, A.H. Date: 5/16/25 Time: 17:14 Received By: Barclay, A.H. Date: 5/16/25 Time: 17:14
Temp Received: 0.5 Received On Ice? ☒ Yes ☐ No
Turnaround Time: ☒ Standard ☐ 48 Hr ☐ 72
☐ SAME DAY ☐ 24 Hr

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Signature

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L11-27D WHs

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: ESE0593

Client: Ensolum

Client Project ID: Barclay 2-16K & Barclay Farms

Checklist Completed by: NB / SEM

Shipped Via: HD L11-27D WHs

Date/time completed: 5/16/25

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

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

Water

Other:

Cooler Number/Temperature: 110.5 °C

(Describe)

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 ⁽¹⁾ ?	<u>X</u>			
Is there ice present (document if blue ice is used)	<u>X</u>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<u>X</u>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<u>X</u>		
Were all samples received intact ⁽¹⁾ ?	<u>X</u>			
Was adequate sample volume provided ⁽¹⁾ ?	<u>X</u>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?			<u>X</u>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<u>X</u>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<u>X</u>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<u>X</u>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<u>X</u>			
For volatiles in water – is there headspace (> 1/4 inch bubble) present? If yes, contact client and note in narrative.			<u>X</u>	
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 Na ₂ O ₂ +NaOH, ZnAc+NaOH)			<u>X</u>	
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)

05/20/25
Date/Time Reviewed

Origins Laboratory

EHO

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L11-27D WHs

FL01(2-16K.L11-27D)@4'

5/16/2025 2:43:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0593-01 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	ND		0.100	mg/L	1	B5E1914	05/19/2025	05/21/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E1951	05/19/2025	05/20/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	99.4 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E1970	05/19/2025	05/20/2025	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	103 %			70-130		"	"	"	
Surrogate: Toluene-d8	101 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	97.7 %			70-130		"	"	"	

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FL01(2-16k.L11-27D)@4'

5/16/2025 2:43:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0593-01 (Soil)
Origins Laboratory

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	05/22/2025	05/27/2025	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	ND	0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5E2048	05/20/2025	05/20/2025	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	0.037	0.005	"	"	"	"	"	
Benzo (a) pyrene	0.030	0.020	"	"	"	"	"	
Benzo (b) fluoranthene	0.032	0.020	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	0.039	0.020	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	0.095	0.020	"	"	"	"	"	
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	0.024	0.020	"	"	"	"	"	
Naphthalene	0.003	0.002	"	"	"	"	"	
Pyrene	0.079	0.020	"	"	"	"	"	

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FL01(2-16K.L11-27D)@4'

5/16/2025 2:43:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0593-01 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	101 %		60-130	B5E2048	05/20/2025	05/20/2025
Surrogate: Anthracene-d10	98.9 %		60-130	"	"	"
Surrogate: Pyrene-d10	105 %		60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %		60-130	"	"	"

pH in Soil by 9045D

pH	6.94		pH Units	1	B5E2275	05/22/2025	05/24/2025
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SAR by 20B Saturated Paste

SAR	0.178	0.0100	SAR	1	B5E2273	05/22/2025	05/27/2025
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0635	0.00500	mmhos/cm	1	B5E2275	05/22/2025	05/24/2025
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Table 915 metals by EPA 6020B

Arsenic	1.92	0.265	mg/kg	10	B5E1955	05/19/2025	05/22/2025
Barium	ND	75.0	"	"	"	"	"
Cadmium	ND	0.347	"	"	"	"	"
Copper	ND	42.0	"	"	"	"	"
Lead	ND	12.8	"	"	"	"	"

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FL01(2-16K.L11-27D)@4'

5/16/2025 2:43:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0593-01 (Soil)

Origins Laboratory

Table 915 metals by EPA 6020B

Nickel	ND	23.8	mg/kg	10	B5E1955	05/19/2025	05/22/2025
Selenium	ND	0.238	"	"	"	"	"
Silver	ND	0.731	"	"	"	"	"
Zinc	ND	338	"	"	"	"	"

Waypoint Analytical, LLC.

Total Metals 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	A103007	05/16/2025	05/27/2025
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L11-27D WHs

FL01(2-16k.L11-27D)@4'-V

5/16/2025 2:43:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0593-02 (Soil) Origins Laboratory									
pH in Soil by 9045D									
pH	6.91			pH Units	1	B5E2133	05/21/2025	05/27/2025	

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L11-27D WHs

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 B5E1914 - DTPA Sorbitol Preparation

Blank (B5E1914-BLK1)

Prepared: 05/19/2025 Analyzed: 05/21/2025

Boron ND 0.100 mg/L

Duplicate (B5E1914-DUP1)

Source: E5E0237-01

Prepared: 05/19/2025 Analyzed: 05/21/2025

Boron 1.43 0.101 mg/L 1.51 5.56 50

Batch B5E2273 - Saturated Paste Metals

Blank (B5E2273-BLK1)

Prepared: 05/22/2025 Analyzed: 05/27/2025

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

Duplicate (B5E2273-DUP1)

Source: E5E0568-01

Prepared: 05/22/2025 Analyzed: 05/27/2025

SAR ND 0.0100 SAR 3.88 200
Calcium PPM 60.6 10.0 mg/L 61.8 2.11 50
Magnesium PPM 29.2 10.0 " 29.9 2.34 50
Sodium PPM 147 10.0 " 149 1.04 50

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L11-27D WHs

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 B5E2048 - EPA 3580

Blank (B5E2048-BLK1)

Prepared: 05/20/2025 Analyzed: 05/20/2025

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	200		ug/kg	200	101	60-130
Surrogate: Anthracene-d10	200		"	200	100	60-130
Surrogate: Pyrene-d10	210		"	200	105	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200	98.5	60-130

LCS (B5E2048-BS1)

Prepared: 05/20/2025 Analyzed: 05/20/2025

1-Methylnaphthalene	0.205	0.002	mg/kg	0.200	102	70-130
2-Methylnaphthalene	0.205	0.002	"	0.200	102	70-130
Acenaphthene	0.210	0.020	"	0.200	105	70-130
Anthracene	0.197	0.020	"	0.200	98.7	70-130

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Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E2048 - EPA 3580

LCS (B5E2048-BS1)

Prepared: 05/20/2025 Analyzed: 05/20/2025

Benzo (a) anthracene	0.208	0.005	mg/kg	0.200		104	70-130
Benzo (a) pyrene	0.197	0.020	"	0.200		98.7	70-130
Benzo (b) fluoranthene	0.200	0.020	"	0.200		100	70-130
Benzo (g,h,i) perylene	0.179	0.020	"	0.200		89.4	70-130
Benzo (k) fluoranthene	0.185	0.020	"	0.200		92.6	70-130
Chrysene	0.194	0.020	"	0.200		97.0	70-130
Dibenz (a,h) anthracene	0.213	0.020	"	0.200		106	70-130
Fluoranthene	0.203	0.020	"	0.200		101	70-130
Fluorene	0.209	0.020	"	0.200		104	70-130
Indeno (1,2,3-cd) pyrene	0.207	0.020	"	0.200		104	70-130
Naphthalene	0.203	0.002	"	0.200		102	70-130
Phenanthrene	0.205	0.020	"	0.200		103	70-130
Pyrene	0.214	0.020	"	0.200		107	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130
Surrogate: Anthracene-d10	200		"	200		99.0	60-130
Surrogate: Pyrene-d10	210		"	200		105	60-130
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.6	60-130

Matrix Spike (B5E2048-MS1)

Source: E5E0593-01

Prepared: 05/20/2025 Analyzed: 05/20/2025

1-Methylnaphthalene	0.212	0.002	mg/kg	0.200	0.0006	106	70-130
2-Methylnaphthalene	0.213	0.002	"	0.200	0.002	106	70-130
Acenaphthene	0.224	0.020	"	0.200	0.008	108	70-130
Anthracene	0.226	0.020	"	0.200	0.018	104	70-130
Benzo (a) anthracene	0.270	0.005	"	0.200	0.037	116	70-130
Benzo (a) pyrene	0.243	0.020	"	0.200	0.030	107	70-130
Benzo (b) fluoranthene	0.250	0.020	"	0.200	0.032	109	70-130
Benzo (g,h,i) perylene	0.215	0.020	"	0.200	0.020	97.7	70-130

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L11-27D WHs

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 B5E2048 - EPA 3580

Matrix Spike (B5E2048-MS1)				Source: E5E0593-01		Prepared: 05/20/2025 Analyzed: 05/20/2025				
Benzo (k) fluoranthene	0.224	0.020	mg/kg	0.200	0.016	104	70-130			
Chrysene	0.256	0.020	"	0.200	0.039	108	70-130			
Dibenz (a,h) anthracene	0.236	0.020	"	0.200	0.012	112	70-130			
Fluoranthene	0.339	0.020	"	0.200	0.095	122	70-130			
Fluorene	0.225	0.020	"	0.200	0.010	107	70-130			
Indeno (1,2,3-cd) pyrene	0.234	0.020	"	0.200	0.024	105	70-130			
Naphthalene	0.214	0.002	"	0.200	0.003	105	70-130			
Phenanthrene	0.314	0.020	"	0.200	0.087	114	70-130			
Pyrene	0.332	0.020	"	0.200	0.079	126	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		98.9	60-130			
Surrogate: Pyrene-d10	210		"	200		105	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.0	60-130			

Matrix Spike Dup (B5E2048-MSD1)				Source: E5E0593-01		Prepared: 05/20/2025 Analyzed: 05/20/2025				
1-Methylnaphthalene	0.209	0.002	mg/kg	0.200	0.0006	104	70-130	1.30	20	
2-Methylnaphthalene	0.211	0.002	"	0.200	0.002	105	70-130	1.13	20	
Acenaphthene	0.222	0.020	"	0.200	0.008	107	70-130	0.668	20	
Anthracene	0.221	0.020	"	0.200	0.018	101	70-130	2.13	20	
Benzo (a) anthracene	0.242	0.005	"	0.200	0.037	102	70-130	11.0	20	
Benzo (a) pyrene	0.229	0.020	"	0.200	0.030	99.9	70-130	5.69	20	
Benzo (b) fluoranthene	0.238	0.020	"	0.200	0.032	103	70-130	5.01	20	
Benzo (g,h,i) perylene	0.207	0.020	"	0.200	0.020	93.4	70-130	4.06	20	
Benzo (k) fluoranthene	0.245	0.020	"	0.200	0.016	114	70-130	8.61	20	
Chrysene	0.240	0.020	"	0.200	0.039	100	70-130	6.54	20	
Dibenz (a,h) anthracene	0.229	0.020	"	0.200	0.012	109	70-130	3.03	20	
Fluoranthene	0.308	0.020	"	0.200	0.095	106	70-130	9.70	20	

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 & Barclay Farms
L11-27D WHs

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 B5E2048 - EPA 3580

Matrix Spike Dup (B5E2048-MSD1)				Source: E5E0593-01		Prepared: 05/20/2025 Analyzed: 05/20/2025				
Fluorene	0.223	0.020	mg/kg	0.200	0.010	106	70-130	0.952	20	
Indeno (1,2,3-cd) pyrene	0.232	0.020	"	0.200	0.024	104	70-130	0.912	20	
Naphthalene	0.211	0.002	"	0.200	0.003	104	70-130	1.08	20	
Phenanthrene	0.294	0.020	"	0.200	0.087	104	70-130	6.65	20	
Pyrene	0.301	0.020	"	0.200	0.079	111	70-130	9.76	20	
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		99.0	60-130			
Surrogate: Pyrene-d10	210		"	200		105	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.3	60-130			

Origins Laboratory

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A14171053

Project: kmg - Barclay 2-16K & Barclay Farms
L11-27D WHs

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 B5E1951 - EPA 3550B										
Blank (B5E1951-BLK1)										
					Prepared: 05/19/2025 Analyzed: 05/20/2025					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		84.1	50-150			
LCS (B5E1951-BS1)										
					Prepared: 05/19/2025 Analyzed: 05/20/2025					
Diesel (C10-C28)	926	50.0	mg/kg	1000		92.6	70-130			
Residual Range Organics (C28-C40)	1130	200	"	1000		113	70-130			
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			
Matrix Spike (B5E1951-MS1)										
			Source: E5E0583-01		Prepared: 05/19/2025 Analyzed: 05/20/2025					
Diesel (C10-C28)	922	50.0	mg/kg	1000	ND	92.2	70-130			
Residual Range Organics (C28-C40)	1140	200	"	1000	ND	114	70-130			
Surrogate: o-Terphenyl	47		"	49.8		95.4	50-150			
Matrix Spike Dup (B5E1951-MSD1)										
			Source: E5E0583-01		Prepared: 05/19/2025 Analyzed: 05/20/2025					
Diesel (C10-C28)	997	50.0	mg/kg	1000	ND	99.7	70-130	7.81	35	
Residual Range Organics (C28-C40)	1210	200	"	1000	ND	121	70-130	6.29	35	
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

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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 & Barclay Farms
L11-27D WHs

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 B5E1955 - EPA 3050B

Blank (B5E1955-BLK1)

Prepared: 05/19/2025 Analyzed: 05/22/2025

Arsenic	ND	0.290	mg/kg
Barium	ND	82.0	"
Cadmium	ND	0.380	"
Copper	ND	46.0	"
Lead	ND	14.0	"
Nickel	ND	26.0	"
Selenium	ND	0.260	"
Silver	ND	0.800	"
Zinc	ND	370	"

LCS (B5E1955-BS1)

Prepared: 05/19/2025 Analyzed: 05/22/2025

Arsenic	5.55	0.290	mg/kg	5.00	111	80-120
Barium	524	82.0	"	500	105	80-120
Cadmium	5.58	0.380	"	5.00	112	80-120
Copper	52.1	46.0	"	50.0	104	80-120
Lead	5.26	14.0	"	5.00	105	80-120
Nickel	5.18	26.0	"	5.00	104	80-120
Selenium	5.72	0.260	"	5.00	114	80-120
Silver	5.43	0.800	"	5.00	109	80-120
Zinc	50.1	370	"	50.0	100	80-120

Matrix Spike (B5E1955-MS1)

Source: E5E0592-01

Prepared: 05/19/2025 Analyzed: 05/23/2025

Arsenic	9.78	0.260	mg/kg	4.47	10.9	NR	75-125	QM-07
Barium	715	73.4	"	447	66.3	145	75-125	QM-07
Cadmium	5.01	0.340	"	4.47	0.0611	111	75-125	
Copper	59.0	41.2	"	44.7	11.3	107	75-125	
Lead	15.6	12.5	"	4.47	14.2	30.9	75-125	QM-07

Origins Laboratory

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Ensolum

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A14171053

Project: kmg - Barclay 2-16K & Barclay Farms
L11-27D WHs

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 B5E1955 - EPA 3050B

Matrix Spike (B5E1955-MS1)

Source: E5E0592-01

Prepared: 05/19/2025 Analyzed: 05/23/2025

Nickel	19.7	23.3	mg/kg	4.47	12.0	173	75-125			QM-07
Selenium	4.34	0.233	"	4.47	0.252	91.3	75-125			
Silver	4.92	0.716	"	4.47	0.0413	109	75-125			
Zinc	96.6	331	"	44.7	54.8	93.4	75-125			

Matrix Spike Dup (B5E1955-MSD1)

Source: E5E0592-01

Prepared: 05/19/2025 Analyzed: 05/23/2025

Arsenic	10.1	0.260	mg/kg	4.49	10.9	NR	75-125	2.94	20	QM-07
Barium	691	73.6	"	449	66.3	139	75-125	3.40	20	QM-07
Cadmium	5.18	0.341	"	4.49	0.0611	114	75-125	3.17	20	
Copper	62.1	41.3	"	44.9	11.3	113	75-125	5.07	20	
Lead	16.3	12.6	"	4.49	14.2	45.7	75-125	4.22	20	QM-07
Nickel	19.7	23.3	"	4.49	12.0	172	75-125	0.104	20	QM-07
Selenium	4.46	0.233	"	4.49	0.252	93.7	75-125	2.83	20	
Silver	5.06	0.718	"	4.49	0.0413	112	75-125	2.89	20	
Zinc	100	332	"	44.9	54.8	101	75-125	3.59	20	

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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 & Barclay Farms
L11-27D WHs

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 B5E2133 - Saturated Paste pH/EC

Duplicate (B5E2133-DUP1)

Source: E5E0497-03

Prepared: 05/21/2025 Analyzed: 05/27/2025

pH	8.02		pH Units		7.90			1.51	25	
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Batch B5E2275 - Saturated Paste pH/EC

Blank (B5E2275-BLK1)

Prepared: 05/22/2025 Analyzed: 05/24/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							
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Duplicate (B5E2275-DUP1)

Source: E5E0568-01

Prepared: 05/22/2025 Analyzed: 05/24/2025

Specific Conductance (EC)	1.33	0.00500	mmhos/cm		1.34			1.13	25	
pH	8.31		pH Units		8.30			0.120	25	

Origins Laboratory

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Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A14171053

Project: kmg - Barclay 2-16K & Barclay Farms
L11-27D WHs

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 B5E1970 - EPA 5030 (soil)

Blank (B5E1970-BLK1)

Prepared: 05/19/2025 Analyzed: 05/20/2025

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	0.12		"	0.125		97.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.2	70-130			

LCS (B5E1970-BS1)

Prepared: 05/19/2025 Analyzed: 05/20/2025

1,2,4-Trimethylbenzene	0.0922	0.00200	mg/kg	0.100		92.2	70-130			
1,3,5-Trimethylbenzene	0.0935	0.00200	"	0.100		93.5	70-130			
Benzene	0.0888	0.00200	"	0.100		88.8	70-130			
Ethylbenzene	0.0890	0.00200	"	0.100		89.0	70-130			
Naphthalene	0.100	0.00380	"	0.100		100	70-130			
Toluene	0.0847	0.00200	"	0.100		84.7	70-130			
o-Xylene	0.0902	0.00200	"	0.100		90.2	70-130			
m,p-Xylene	0.174	0.00400	"	0.200		86.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Matrix Spike (B5E1970-MS1)

Source: E5E0583-01

Prepared: 05/19/2025 Analyzed: 05/20/2025

1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100	ND	107	70-130			
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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 & Barclay Farms
L11-27D WHs

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 B5E1970 - EPA 5030 (soil)

Matrix Spike (B5E1970-MS1)			Source: E5E0583-01		Prepared: 05/19/2025 Analyzed: 05/20/2025					
1,3,5-Trimethylbenzene	0.112	0.00200	mg/kg	0.100	ND	112	70-130			
Benzene	0.0933	0.00200	"	0.100	0.000660	92.7	70-130			
Ethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130			
Naphthalene	0.0830	0.00380	"	0.100	ND	83.0	70-130			
Toluene	0.0977	0.00200	"	0.100	ND	97.7	70-130			
o-Xylene	0.105	0.00200	"	0.100	ND	105	70-130			
m,p-Xylene	0.208	0.00400	"	0.200	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		81.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Matrix Spike Dup (B5E1970-MSD1)			Source: E5E0583-01		Prepared: 05/19/2025 Analyzed: 05/20/2025					
1,2,4-Trimethylbenzene	0.109	0.00200	mg/kg	0.100	ND	109	70-130	2.04	20	
1,3,5-Trimethylbenzene	0.111	0.00200	"	0.100	ND	111	70-130	0.431	20	
Benzene	0.101	0.00200	"	0.100	0.000660	100	70-130	8.00	20	
Ethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	2.75	20	
Naphthalene	0.114	0.00380	"	0.100	ND	114	70-130	31.3	20	QR-02
Toluene	0.103	0.00200	"	0.100	ND	103	70-130	5.36	20	
o-Xylene	0.106	0.00200	"	0.100	ND	106	70-130	0.888	20	
m,p-Xylene	0.205	0.00400	"	0.200	ND	103	70-130	1.35	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.5	70-130			

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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 & Barclay Farms
L11-27D WHs

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 A103007 -										
DUP (L 97537-DUP)	Source: 97537				Prepared: Analyzed: 05/27/2025					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 97537-MS)	Source: 97537				Prepared: Analyzed: 05/27/2025					
Chromium, Hexavalent	6.74	0.5	mg/Kg	7.8	<0.244	86	75-125			
DUP (L 97583-DUP)	Source: 97583				Prepared: Analyzed: 05/27/2025					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
LCS (LCS)					Prepared: Analyzed: 05/27/2025					
Chromium, Hexavalent	7.23	0.5	mg/Kg	8		90	75-125			
LRB (LRB)					Prepared: Analyzed: 05/27/2025					
Chromium, Hexavalent	ND	0.5	mg/Kg			-				

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Jeremy Espinoza

Project Number: 09A14171053

Project: kmg - Barclay 2-16K & Barclay Farms
L11-27D WHs

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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

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