



Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

May 21, 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 05, 2025. This project is associated with Origins project number E5E0196-01.

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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Jeremy Espinoza

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
B01(L11-27D)@6'	E5E0196-01	Soil	May 5, 2025 13:11	05/05/2025 17:08
WH-RISER(L11-27D)@5'	E5E0196-02	Soil	May 5, 2025 13:14	05/05/2025 17:08
NATIVE-BG05@3'	E5E0196-03	Soil	May 5, 2025 13:42	05/05/2025 17:08
NATIVE-BG05@6'	E5E0196-04	Soil	May 5, 2025 13:44	05/05/2025 17:08
NATIVE-BG06@3'	E5E0196-05	Soil	May 5, 2025 13:46	05/05/2025 17:08
NATIVE-BG06@6'	E5E0196-06	Soil	May 5, 2025 13:48	05/05/2025 17:08
NATIVE-BG07@3'	E5E0196-07	Soil	May 5, 2025 13:51	05/05/2025 17:08
NATIVE-BG07@6'	E5E0196-08	Soil	May 5, 2025 13:53	05/05/2025 17:08
NATIVE-BG08@3'	E5E0196-09	Soil	May 5, 2025 13:56	05/05/2025 17:08
NATIVE-BG08@6'	E5E0196-10	Soil	May 5, 2025 13:59	05/05/2025 17:08
B01(L11-27D)@6'-V	E5E0196-11	Soil	May 5, 2025 13:11	05/05/2025 17:08
WH-RISER(L11-27D)@5'-V	E5E0196-12	Soil	May 5, 2025 13:14	05/05/2025 17:08

Origins Laboratory

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Jeremy Espinoza

Project Number: 09A14171053

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

ORIGINS
LABORATORY

Project Name: kmg

ES0196

Page 1 of 2

Client:

Ensolum

Project Manager:

Jeremy Espinoza

Key:

Address:

Ensolum

Project Name:

Barclay 2-16K & Barclay Farms L11-27D WHs

W=Water

Project Number:

09A14171053

GM=Groundwater

Telephone Number:

—

Collected By:

Ensolum

SW=Surface Water

Email Address:

kmg TEAM

Invoice Billing Info:

Ensolum

WW=Waste Water
L=Liquid

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UHP=Ureap | HCl=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis				Comments
1	Roller-110206	5:55	3	5	UHP	Full Cst + 95				Phase Powder
2	Roller-110206	13:14	1			pH				Initial Report
3	Roller-110206	13:42	2			SAR				
4	Roller-110206	13:44				boron				
5	Roller-110206	13:46				EC				
6	Roller-110206	13:48				915 MCH				
7	Roller-110206	13:51								
8	Roller-110206	13:53								
9	Roller-110206	13:56								
10	Roller-110206	13:59								
11	Roller-110206	13:59								
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97	Roller-110206	13:59								
98	Roller-110206	13:59								
99	Roller-110206	13:59								
100	Roller-110206	13:59								

Temp Received - 9°C Received On Ice? ☒ Yes ☐ No

Standard

48 Hr ☐ 72

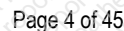
Turnaround Time

SAME DAY ☐ 24 Hr

Origins Laboratory

Signature

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Project Number: 09A14171053

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

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: F5E0196

Client: ENSOLUM

Client Project ID: Barclay 2-16K...L11-27D WHs

Checklist Completed by: NKM/NKM

Shipped Via: HD

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

Date/time completed: 05/05/25

Airbill #: N/A

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

☐ Water

☐ Other:

(Describe)

Cooler Number/Temperature: 1 / 1.8 °C

Thermometer ID: T-007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽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 NaAcO ₂ +NaOH, ZnAc ₂ +NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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 be in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) AM

5/7/25

Date/Time Reviewed

Origins Laboratory

EHO

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Project Number: 09A14171053

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

B01(L11-27D)@6'

5/5/2025 1:11:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0196-01 (Soil)
Enthalpy Orange

TOTAL METALS BY EPA 7199

Hexavalent Chromium	ND	0.16	0.30	mg/Kg	1	371461	05/15/2025	05/16/2025	ND
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Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.188		0.0992	mg/L	1	B5E0707	05/07/2025	05/09/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E0729	05/07/2025	05/08/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	76.8 %			50-150		"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0735	05/07/2025	05/10/2025	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

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L11-27D WHs

B01(L11-27D)@6'

5/5/2025 1:11:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

E5E0196-01 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B5E0735	05/07/2025	05/10/2025	U
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Surrogate: 1,2-Dichloroethane-d4

106 %

70-130

"

"

"

Surrogate: Toluene-d8

99.4 %

70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

93.5 %

70-130

"

"

"

Metals by Saturated Paste by EPA 6010

Calcium	2.04	0.499	meq/L	10	[CALC]	05/13/2025	05/14/2025
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.35	0.435	"	"	"	"	"

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5E0846	05/08/2025	05/13/2025	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

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L11-27D WHs

B01(L11-27D)@6'

5/5/2025 1:11:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0196-01 (Soil)

Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Chrysene	ND	0.020	mg/kg	1	B5E0846	05/08/2025	05/13/2025	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	0.002	0.002	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	103 %	60-130	"	"	"	"	"
Surrogate: Anthracene-d10	89.2 %	60-130	"	"	"	"	"
Surrogate: Pyrene-d10	97.5 %	60-130	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"	"	"

pH in Soil by 9045D

pH	8.24	pH Units	1	B5E1331	05/13/2025	05/14/2025
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SAR by 20B Saturated Paste

SAR	1.15	0.0100	SAR	1	B5E1308	05/13/2025	05/14/2025
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.535	0.00500	mmhos/cm	1	B5E1331	05/13/2025	05/14/2025
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5/5/2025 1:11:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0196-01 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	3.95	0.248	mg/kg	10	B5E0732	05/07/2025	05/08/2025
Barium	137	70.1	"	"	"	"	"
Cadmium	ND	0.325	"	"	"	"	"
Copper	ND	39.3	"	"	"	"	"
Lead	ND	12.0	"	"	"	"	"
Nickel	ND	22.2	"	"	"	"	"
Selenium	ND	0.222	"	"	"	"	"
Silver	ND	0.684	"	"	"	"	"
Zinc	ND	316	"	"	"	"	"

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L11-27D WHs

WH-RISER(L11-27D)@5'

5/5/2025 1:14:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

**E5E0196-02 (Soil)
Enthalpy Orange**

TOTAL METALS BY EPA 7199

Hexavalent Chromium	ND	0.16	0.30	mg/Kg	1	371461	05/15/2025	05/16/2025	ND
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Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.107		0.101	mg/L	1	B5E0707	05/07/2025	05/09/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E0729	05/07/2025	05/08/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	72.5 %			50-150		"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0735	05/07/2025	05/10/2025	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

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L11-27D WHs

WH-RISER(L11-27D)@5'

5/5/2025 1:14:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0196-02 (Soil)

Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B5E0735	05/07/2025	05/10/2025	U
-----------------------------	----	-------	-------	---	---------	------------	------------	---

Surrogate: 1,2-Dichloroethane-d4

106 %

70-130

"

"

"

Surrogate: Toluene-d8

99.1 %

70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

91.9 %

70-130

"

"

"

Metals by Saturated Paste by EPA 6010

Calcium	1.08	0.499	meq/L	10	[CALC]	05/13/2025	05/14/2025
---------	------	-------	-------	----	--------	------------	------------

Magnesium

ND

0.823

"

"

"

"

"

Sodium

ND

0.435

"

"

"

"

"

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5E0846	05/08/2025	05/13/2025	U
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2-Methylnaphthalene

0.002

0.002

"

"

"

"

"

Acenaphthene

ND

0.020

"

"

"

"

"

U

Anthracene

ND

0.020

"

"

"

"

"

U

Benzo (a) anthracene

0.014

0.005

"

"

"

"

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U

Benzo (a) pyrene

ND

0.020

"

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"

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U

Benzo (b) fluoranthene

ND

0.020

"

"

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"

"

U

Benzo (k) fluoranthene

ND

0.020

"

"

"

"

"

U

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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

WH-RISER(L11-27D)@5'

5/5/2025 1:14:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0196-02 (Soil)

Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Chrysene	ND	0.020	mg/kg	1	B5E0846	05/08/2025	05/13/2025	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U
Fluoranthene	0.038	0.020	"	"	"	"	"	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	0.005	0.002	"	"	"	"	"	U
Pyrene	0.027	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	102 %	60-130	"	"	"
Surrogate: Anthracene-d10	93.3 %	60-130	"	"	"
Surrogate: Pyrene-d10	96.4 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.31	pH Units	1	B5E1331	05/13/2025	05/14/2025
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SAR by 20B Saturated Paste

SAR	0.353	0.0100	SAR	1	B5E1308	05/13/2025	05/14/2025
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.263	0.00500	mmhos/cm	1	B5E1331	05/13/2025	05/14/2025
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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

WH-RISER(L11-27D)@5'

5/5/2025 1:14:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0196-02 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	3.70	0.257	mg/kg	10	B5E0732	05/07/2025	05/08/2025
Barium	150	72.5	"	"	"	"	"
Cadmium	ND	0.336	"	"	"	"	"
Copper	ND	40.7	"	"	"	"	"
Lead	ND	12.4	"	"	"	"	"
Nickel	ND	23.0	"	"	"	"	"
Selenium	ND	0.230	"	"	"	"	"
Silver	ND	0.708	"	"	"	"	"
Zinc	ND	327	"	"	"	"	"

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

NATIVE-BG05@3'

5/5/2025 1:42:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0196-03 (Soil)
Enthalpy Orange

TOTAL METALS BY EPA 7199

Hexavalent Chromium	ND	0.15	0.29	mg/Kg	1	371461	05/15/2025	05/16/2025	ND
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Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.122		0.0999	mg/L	1	B5E0707	05/07/2025	05/09/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	0.674		0.499	meq/L	10	[CALC]	05/13/2025	05/14/2025	
Magnesium	1.09		0.823	"	"	"	"	"	"
Sodium	ND		0.435	"	"	"	"	"	"

pH in Soil by 9045D

pH	8.49			pH Units	1	B5E1331	05/13/2025	05/14/2025	
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SAR by 20B Saturated Paste

SAR	0.455		0.0100	SAR	1	B5E1308	05/13/2025	05/14/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.269		0.00500	mmhos/cm	1	B5E1331	05/13/2025	05/14/2025	
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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

NATIVE-BG05@3'
5/5/2025 1:42:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0196-03 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.73	0.269	mg/kg	10	B5E0732	05/07/2025	05/08/2025
Barium	104	76.1	"	"	"	"	"
Cadmium	ND	0.353	"	"	"	"	"
Copper	ND	42.7	"	"	"	"	"
Lead	ND	13.0	"	"	"	"	"
Nickel	ND	24.1	"	"	"	"	"
Selenium	ND	0.241	"	"	"	"	"
Silver	ND	0.743	"	"	"	"	"
Zinc	ND	343	"	"	"	"	"

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

NATIVE-BG05@6'

5/5/2025 1:44:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0196-04 (Soil)
Enthalpy Orange

TOTAL METALS BY EPA 7199

Hexavalent Chromium	ND	0.16	0.30	mg/Kg	1	371461	05/15/2025	05/16/2025	ND
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Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.362		0.0993	mg/L	1	B5E0708	05/07/2025	05/09/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	0.588		0.499	meq/L	10	[CALC]	05/13/2025	05/14/2025	
Magnesium	1.07		0.823	"	"	"	"	"	"
Sodium	1.14		0.435	"	"	"	"	"	"

pH in Soil by 9045D

pH	8.47			pH Units	1	B5E1331	05/13/2025	05/14/2025	
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SAR by 20B Saturated Paste

SAR	1.25		0.0100	SAR	1	B5E1308	05/13/2025	05/14/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.312		0.00500	mmhos/cm	1	B5E1331	05/13/2025	05/14/2025	
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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 & Barclay Farms
L11-27D WHs

NATIVE-BG05@6'

5/5/2025 1:44:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0196-04 (Soil)

Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.84	0.267	mg/kg	10	B5E0732	05/07/2025	05/08/2025
Barium	99.2	75.4	"	"	"	"	"
Cadmium	ND	0.349	"	"	"	"	"
Copper	ND	42.3	"	"	"	"	"
Lead	13.3	12.9	"	"	"	"	"
Nickel	ND	23.9	"	"	"	"	"
Selenium	ND	0.239	"	"	"	"	"
Silver	ND	0.736	"	"	"	"	"
Zinc	ND	340	"	"	"	"	"

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

NATIVE-BG06@3'

5/5/2025 1:46:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0196-05 (Soil)

Enthalpy Orange

TOTAL METALS BY EPA 7199

Hexavalent Chromium	ND	0.16	0.30	mg/Kg	1	371461	05/15/2025	05/16/2025	ND
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Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.118	0.100	mg/L	1	B5E0708	05/07/2025	05/09/2025
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Metals by Saturated Paste by EPA 6010

Calcium	1.11	0.499	meq/L	10	[CALC]	05/13/2025	05/14/2025
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.31	pH Units	1	B5E1332	05/13/2025	05/14/2025
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SAR by 20B Saturated Paste

SAR	0.133	0.0100	SAR	1	B5E1309	05/13/2025	05/14/2025
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.226	0.00500	mmhos/cm	1	B5E1332	05/13/2025	05/14/2025
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11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A14171053

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

NATIVE-BG06@3'

5/5/2025 1:46:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0196-05 (Soil)

Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	8.07	0.281	mg/kg	10	B5E0732	05/07/2025	05/08/2025
Barium	109	79.3	"	"	"	"	"
Cadmium	ND	0.368	"	"	"	"	"
Copper	ND	44.5	"	"	"	"	"
Lead	ND	13.5	"	"	"	"	"
Nickel	ND	25.2	"	"	"	"	"
Selenium	ND	0.252	"	"	"	"	"
Silver	ND	0.774	"	"	"	"	"
Zinc	ND	358	"	"	"	"	"

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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

NATIVE-BG06@6'

5/5/2025 1:48:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0196-06 (Soil)
Enthalpy Orange

TOTAL METALS BY EPA 7199

Hexavalent Chromium	ND	0.16	0.29	mg/Kg	1	371461	05/15/2025	05/16/2025	ND
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Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.103	0.100	mg/L	1	B5E0708	05/07/2025	05/09/2025
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Metals by Saturated Paste by EPA 6010

Calcium	1.62	0.499	meq/L	10	[CALC]	05/13/2025	05/14/2025
Magnesium	1.15	0.823	"	"	"	"	"
Sodium	0.479	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.26	pH Units	1	B5E1332	05/13/2025	05/14/2025
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SAR by 20B Saturated Paste

SAR	0.407	0.0100	SAR	1	B5E1309	05/13/2025	05/14/2025
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.403	0.00500	mmhos/cm	1	B5E1332	05/13/2025	05/14/2025
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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 & Barclay Farms
L11-27D WHs

NATIVE-BG06@6'
5/5/2025 1:48:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0196-06 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	10.4	0.267	mg/kg	10	B5E0732	05/07/2025	05/08/2025
Barium	134	75.5	"	"	"	"	"
Cadmium	ND	0.350	"	"	"	"	"
Copper	ND	42.4	"	"	"	"	"
Lead	14.7	12.9	"	"	"	"	"
Nickel	24.1	23.9	"	"	"	"	"
Selenium	ND	0.239	"	"	"	"	"
Silver	ND	0.737	"	"	"	"	"
Zinc	ND	341	"	"	"	"	"

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

NATIVE-BG07@3'

5/5/2025 1:51:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0196-07 (Soil)

Enthalpy Orange

TOTAL METALS BY EPA 7199

Hexavalent Chromium	ND	0.16	0.30	mg/Kg	1	371461	05/15/2025	05/16/2025	ND
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Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.148	0.100	mg/L	1	B5E0708	05/07/2025	05/09/2025
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Metals by Saturated Paste by EPA 6010

Calcium	0.950	0.499	meq/L	10	[CALC]	05/13/2025	05/14/2025
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.38	pH Units	1	B5E1332	05/13/2025	05/14/2025
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SAR by 20B Saturated Paste

SAR	0.209	0.0100	SAR	1	B5E1309	05/13/2025	05/14/2025
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.188	0.00500	mmhos/cm	1	B5E1332	05/13/2025	05/14/2025
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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 & Barclay Farms
L11-27D WHs

NATIVE-BG07@3'

5/5/2025 1:51:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0196-07 (Soil)

Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	4.40	0.288	mg/kg	10	B5E0732	05/07/2025	05/08/2025
Barium	123	81.3	"	"	"	"	"
Cadmium	ND	0.377	"	"	"	"	"
Copper	ND	45.6	"	"	"	"	"
Lead	ND	13.9	"	"	"	"	"
Nickel	ND	25.8	"	"	"	"	"
Selenium	ND	0.258	"	"	"	"	"
Silver	ND	0.794	"	"	"	"	"
Zinc	ND	367	"	"	"	"	"

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

NATIVE-BG07@6'

5/5/2025 1:53:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0196-08 (Soil)
Enthalpy Orange

TOTAL METALS BY EPA 7199

Hexavalent Chromium	ND	0.15	0.29	mg/Kg	1	371461	05/15/2025	05/16/2025	ND
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Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.115	0.101	mg/L	1	B5E0708	05/07/2025	05/09/2025
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Metals by Saturated Paste by EPA 6010

Calcium	0.637	0.499	meq/L	10	[CALC]	05/13/2025	05/14/2025
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.42	pH Units	1	B5E1332	05/13/2025	05/14/2025
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SAR by 20B Saturated Paste

SAR	0.282	0.0100	SAR	1	B5E1309	05/13/2025	05/14/2025
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.210	0.00500	mmhos/cm	1	B5E1332	05/13/2025	05/14/2025
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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 & Barclay Farms
L11-27D WHs

NATIVE-BG07@6'

5/5/2025 1:53:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0196-08 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	4.53	0.270	mg/kg	10	B5E0732	05/07/2025	05/08/2025
Barium	123	76.4	"	"	"	"	"
Cadmium	ND	0.354	"	"	"	"	"
Copper	ND	42.9	"	"	"	"	"
Lead	ND	13.0	"	"	"	"	"
Nickel	ND	24.2	"	"	"	"	"
Selenium	ND	0.242	"	"	"	"	"
Silver	ND	0.746	"	"	"	"	"
Zinc	ND	345	"	"	"	"	"

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

NATIVE-BG08@3'

5/5/2025 1:56:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0196-09 (Soil)
Enthalpy Orange

TOTAL METALS BY EPA 7199

Hexavalent Chromium	ND	0.16	0.30	mg/Kg	1	371461	05/15/2025	05/16/2025	ND
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Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.103	0.100	mg/L	1	B5E0708	05/07/2025	05/09/2025
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Metals by Saturated Paste by EPA 6010

Calcium	0.824	0.499	meq/L	10	[CALC]	05/13/2025	05/14/2025
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.32	pH Units	1	B5E1332	05/13/2025	05/14/2025
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SAR by 20B Saturated Paste

SAR	0.265	0.0100	SAR	1	B5E1309	05/13/2025	05/14/2025
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.164	0.00500	mmhos/cm	1	B5E1332	05/13/2025	05/14/2025
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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

NATIVE-BG08@3'

5/5/2025 1:56:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0196-09 (Soil)

Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	5.51	0.248	mg/kg	10	B5E0732	05/07/2025	05/08/2025
Barium	98.4	70.3	"	"	"	"	"
Cadmium	ND	0.326	"	"	"	"	"
Copper	ND	39.4	"	"	"	"	"
Lead	ND	12.0	"	"	"	"	"
Nickel	ND	22.3	"	"	"	"	"
Selenium	ND	0.223	"	"	"	"	"
Silver	ND	0.685	"	"	"	"	"
Zinc	ND	317	"	"	"	"	"

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

NATIVE-BG08@6'

5/5/2025 1:59:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0196-10 (Soil)
Enthalpy Orange

TOTAL METALS BY EPA 7199

Hexavalent Chromium	ND	0.16	0.29	mg/Kg	1	371461	05/15/2025	05/16/2025	ND
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Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.106		0.0996	mg/L	1	B5E0708	05/07/2025	05/09/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	1.03		0.499	meq/L	10	[CALC]	05/13/2025	05/14/2025	
Magnesium	ND		0.823	"	"	"	"	"	"
Sodium	ND		0.435	"	"	"	"	"	"

pH in Soil by 9045D

pH	8.35			pH Units	1	B5E1332	05/13/2025	05/14/2025	
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SAR by 20B Saturated Paste

SAR	0.197		0.0100	SAR	1	B5E1309	05/13/2025	05/14/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.216		0.00500	mmhos/cm	1	B5E1332	05/13/2025	05/14/2025	
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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 & Barclay Farms
L11-27D WHs

NATIVE-BG08@6'

5/5/2025 1:59:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0196-10 (Soil)

Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	4.52	0.261	mg/kg	10	B5E0732	05/07/2025	05/08/2025
Barium	107	73.8	"	"	"	"	"
Cadmium	ND	0.342	"	"	"	"	"
Copper	ND	41.4	"	"	"	"	"
Lead	ND	12.6	"	"	"	"	"
Nickel	ND	23.4	"	"	"	"	"
Selenium	ND	0.234	"	"	"	"	"
Silver	ND	0.720	"	"	"	"	"
Zinc	ND	333	"	"	"	"	"

Origins Laboratory

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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

B01(L11-27D)@6'-V

5/5/2025 1:11:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0196-11 (Soil)									
Origins Laboratory									
pH in Soil by 9045D									
pH	8.19			pH Units	1	B5E1338	05/13/2025	05/14/2025	

Origins Laboratory

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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

WH-RISER(L11-27D)@5'-V

5/5/2025 1:14:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0196-12 (Soil) Origins Laboratory									
pH in Soil by 9045D									
pH	8.33			pH Units	1	B5E1338	05/13/2025	05/14/2025	

Origins Laboratory

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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

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 B5E0707 - DTPA Sorbitol Preparation

Blank (B5E0707-BLK1)

Prepared: 05/07/2025 Analyzed: 05/09/2025

Boron ND 0.100 mg/L

Duplicate (B5E0707-DUP1)

Source: E5E0194-04

Prepared: 05/07/2025 Analyzed: 05/09/2025

Boron ND 0.100 mg/L

ND

50

Batch B5E0708 - DTPA Sorbitol Preparation

Blank (B5E0708-BLK1)

Prepared: 05/07/2025 Analyzed: 05/09/2025

Boron ND 0.100 mg/L

Duplicate (B5E0708-DUP1)

Source: E5E0196-04

Prepared: 05/07/2025 Analyzed: 05/09/2025

Boron 0.285 0.100 mg/L

0.362

23.8

50

Batch B5E1308 - Saturated Paste Metals

Blank (B5E1308-BLK1)

Prepared: 05/13/2025 Analyzed: 05/14/2025

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 (B5E1308-DUP1)

Source: E5E0196-01

Prepared: 05/13/2025 Analyzed: 05/14/2025

SAR ND 0.0100 SAR

1.15

200

Calcium PPM 37.5 10.0 mg/L

40.9

8.47

50

Magnesium PPM 8.11 10.0 "

8.75

7.59

50

Sodium PPM 30.5 10.0 "

30.9

1.27

50

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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

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 B5E1309 - Saturated Paste Metals

Blank (B5E1309-BLK1)

Prepared: 05/13/2025 Analyzed: 05/14/2025

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 (B5E1309-DUP1)

Source: E5E0196-05

Prepared: 05/13/2025 Analyzed: 05/14/2025

SAR	ND	0.0100	SAR	0.133		200
Calcium PPM	24.3	10.0	mg/L	22.3	8.68	50
Magnesium PPM	6.46	10.0	"	6.03	6.89	50
Sodium PPM	3.16	10.0	"	2.74	14.2	50

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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 B5E0846 - EPA 3580

Blank (B5E0846-BLK1)

Prepared: 05/08/2025 Analyzed: 05/13/2025

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 (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
Pyrene	ND	0.020	"							U

Surrogate: Fluorene-d10	200		ug/kg	200	101	60-130
Surrogate: Anthracene-d10	190		"	200	93.5	60-130
Surrogate: Pyrene-d10	190		"	200	97.0	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200	103	60-130

LCS (B5E0846-BS1)

Prepared: 05/08/2025 Analyzed: 05/13/2025

1-Methylnaphthalene	0.186	0.002	mg/kg	0.200	92.8	70-130
2-Methylnaphthalene	0.186	0.002	"	0.200	93.0	70-130
Acenaphthene	0.205	0.020	"	0.200	102	70-130
Anthracene	0.204	0.020	"	0.200	102	70-130
Benzo (a) anthracene	0.234	0.005	"	0.200	117	70-130
Benzo (a) pyrene	0.222	0.020	"	0.200	111	70-130

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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 B5E0846 - EPA 3580

LCS (B5E0846-BS1)

Prepared: 05/08/2025 Analyzed: 05/13/2025

Benzo (b) fluoranthene	0.233	0.020	mg/kg	0.200		117	70-130
Benzo (k) fluoranthene	0.214	0.020	"	0.200		107	70-130
Chrysene	0.203	0.020	"	0.200		101	70-130
Dibenz (a,h) anthracene	0.239	0.020	"	0.200		120	70-130
Fluoranthene	0.211	0.020	"	0.200		105	70-130
Fluorene	0.203	0.020	"	0.200		101	70-130
Indeno (1,2,3-cd) pyrene	0.226	0.020	"	0.200		113	70-130
Naphthalene	0.199	0.002	"	0.200		99.5	70-130
Pyrene	0.206	0.020	"	0.200		103	70-130

Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130
Surrogate: Anthracene-d10	190		"	200		97.2	60-130
Surrogate: Pyrene-d10	190		"	200		96.3	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130

Matrix Spike (B5E0846-MS1)

Source: E5E0182-01

Prepared: 05/08/2025 Analyzed: 05/13/2025

1-Methylnaphthalene	0.172	0.002	mg/kg	0.200	0.001	85.5	70-130
2-Methylnaphthalene	0.172	0.002	"	0.200	ND	86.0	70-130
Acenaphthene	0.195	0.020	"	0.200	0.001	96.8	70-130
Anthracene	0.187	0.020	"	0.200	0.0006	93.4	70-130
Benzo (a) anthracene	0.228	0.005	"	0.200	ND	114	70-130
Benzo (a) pyrene	0.215	0.020	"	0.200	0.001	107	70-130
Benzo (b) fluoranthene	0.227	0.020	"	0.200	0.001	113	70-130
Benzo (k) fluoranthene	0.209	0.020	"	0.200	0.001	104	70-130
Chrysene	0.199	0.020	"	0.200	0.002	98.6	70-130
Dibenz (a,h) anthracene	0.245	0.020	"	0.200	0.002	121	70-130
Fluoranthene	0.199	0.020	"	0.200	ND	99.6	70-130
Fluorene	0.210	0.020	"	0.200	ND	105	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

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 B5E0846 - EPA 3580

Matrix Spike (B5E0846-MS1)		Source: E5E0182-01			Prepared: 05/08/2025 Analyzed: 05/13/2025					
Indeno (1,2,3-cd) pyrene	0.211	0.020	mg/kg	0.200	0.003	104	70-130			
Naphthalene	0.197	0.002	"	0.200	ND	98.5	70-130			
Pyrene	0.190	0.020	"	0.200	ND	95.0	70-130			
Surrogate: Fluorene-d10	220		ug/kg	200		109	60-130			
Surrogate: Anthracene-d10	190		"	200		95.7	60-130			
Surrogate: Pyrene-d10	180		"	200		90.6	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

Matrix Spike Dup (B5E0846-MSD1)		Source: E5E0182-01			Prepared: 05/08/2025 Analyzed: 05/13/2025					
1-Methylnaphthalene	0.177	0.002	mg/kg	0.200	0.001	87.8	70-130	2.56	20	
2-Methylnaphthalene	0.175	0.002	"	0.200	ND	87.4	70-130	1.63	20	
Acenaphthene	0.196	0.020	"	0.200	0.001	97.3	70-130	0.560	20	
Anthracene	0.195	0.020	"	0.200	0.0006	97.4	70-130	4.13	20	
Benzo (a) anthracene	0.234	0.005	"	0.200	ND	117	70-130	2.43	20	
Benzo (a) pyrene	0.222	0.020	"	0.200	0.001	110	70-130	3.19	20	
Benzo (b) fluoranthene	0.233	0.020	"	0.200	0.001	116	70-130	2.71	20	
Benzo (k) fluoranthene	0.212	0.020	"	0.200	0.001	105	70-130	1.35	20	
Chrysene	0.201	0.020	"	0.200	0.002	99.7	70-130	1.04	20	
Dibenz (a,h) anthracene	0.255	0.020	"	0.200	0.002	126	70-130	3.89	20	
Fluoranthene	0.195	0.020	"	0.200	ND	97.6	70-130	2.07	20	
Fluorene	0.212	0.020	"	0.200	ND	106	70-130	0.578	20	
Indeno (1,2,3-cd) pyrene	0.227	0.020	"	0.200	0.003	112	70-130	7.35	20	
Naphthalene	0.198	0.002	"	0.200	ND	98.8	70-130	0.312	20	
Pyrene	0.176	0.020	"	0.200	ND	88.1	70-130	7.54	20	
Surrogate: Fluorene-d10	220		ug/kg	200		110	60-130			
Surrogate: Anthracene-d10	180		"	200		90.6	60-130			
Surrogate: Pyrene-d10	180		"	200		88.3	60-130			

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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 B5E0846 - EPA 3580

Matrix Spike Dup (B5E0846-MSD1)

Source: E5E0182-01

Prepared: 05/08/2025 Analyzed: 05/13/2025

Surrogate: Benzo (a) pyrene-d12	210	ug/kg	200	104	60-130
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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 B5E0729 - EPA 3550B										
Blank (B5E0729-BLK1)										
					Prepared: 05/07/2025 Analyzed: 05/08/2025					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		80.7	50-150			
LCS (B5E0729-BS1)										
					Prepared: 05/07/2025 Analyzed: 05/08/2025					
Diesel (C10-C28)	947	50.0	mg/kg	1000		94.7	70-130			
Residual Range Organics (C28-C40)	946	200	"	1000		94.6	70-130			
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			
Matrix Spike (B5E0729-MS1)										
			Source: E5E0182-01		Prepared: 05/07/2025 Analyzed: 05/08/2025					
Diesel (C10-C28)	925	50.0	mg/kg	1000	ND	92.5	70-130			
Residual Range Organics (C28-C40)	933	200	"	1000	ND	93.3	70-130			
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			
Matrix Spike Dup (B5E0729-MSD1)										
			Source: E5E0182-01		Prepared: 05/07/2025 Analyzed: 05/08/2025					
Diesel (C10-C28)	986	50.0	mg/kg	1000	ND	98.6	70-130	6.39	35	
Residual Range Organics (C28-C40)	994	200	"	1000	ND	99.4	70-130	6.37	35	
Surrogate: o-Terphenyl	55		"	49.8		110	50-150			

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

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 B5E0732 - EPA 3050B

Blank (B5E0732-BLK1)

Prepared: 05/07/2025 Analyzed: 05/08/2025

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 (B5E0732-BS1)

Prepared: 05/07/2025 Analyzed: 05/08/2025

Arsenic	5.21	0.290	mg/kg	5.00	104	80-120
Barium	539	82.0	"	500	108	80-120
Cadmium	5.63	0.380	"	5.00	113	80-120
Copper	51.6	46.0	"	50.0	103	80-120
Lead	5.30	14.0	"	5.00	106	80-120
Nickel	5.12	26.0	"	5.00	102	80-120
Selenium	5.22	0.260	"	5.00	104	80-120
Silver	5.63	0.800	"	5.00	113	80-120
Zinc	50.6	370	"	50.0	101	80-120

Matrix Spike (B5E0732-MS1)

Source: E5E0182-01

Prepared: 05/07/2025 Analyzed: 05/08/2025

Arsenic	11.3	0.259	mg/kg	4.47	6.15	116	75-125
Barium	634	73.3	"	447	162	106	75-125
Cadmium	5.14	0.340	"	4.47	0.198	111	75-125
Copper	56.1	41.1	"	44.7	13.9	94.3	75-125
Lead	16.2	12.5	"	4.47	11.4	108	75-125

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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 B5E0732 - EPA 3050B

Matrix Spike (B5E0732-MS1)

Source: E5E0182-01

Prepared: 05/07/2025 Analyzed: 05/08/2025

Nickel	18.5	23.3	mg/kg	4.47	15.0	76.7	75-125			
Selenium	4.48	0.233	"	4.47	0.265	94.2	75-125			
Silver	4.97	0.715	"	4.47	0.0664	110	75-125			
Zinc	99.2	331	"	44.7	48.8	113	75-125			

Matrix Spike Dup (B5E0732-MSD1)

Source: E5E0182-01

Prepared: 05/07/2025 Analyzed: 05/08/2025

Arsenic	12.2	0.270	mg/kg	4.65	6.15	129	75-125	7.03	20	QM-07
Barium	719	76.3	"	465	162	120	75-125	12.6	20	
Cadmium	5.36	0.354	"	4.65	0.198	111	75-125	4.29	20	
Copper	66.7	42.8	"	46.5	13.9	113	75-125	17.3	20	
Lead	17.8	13.0	"	4.65	11.4	138	75-125	9.13	20	QM-07
Nickel	20.8	24.2	"	4.65	15.0	124	75-125	11.9	20	
Selenium	4.76	0.242	"	4.65	0.265	96.5	75-125	6.05	20	
Silver	5.19	0.744	"	4.65	0.0664	110	75-125	4.30	20	
Zinc	103	344	"	46.5	48.8	117	75-125	3.79	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

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 B5E1331 - Saturated Paste pH/EC

Blank (B5E1331-BLK1)

Prepared: 05/13/2025 Analyzed: 05/14/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B5E1331-DUP1)

Source: E5E0196-01

Prepared: 05/13/2025 Analyzed: 05/14/2025

pH	8.24		pH Units	8.24		0.00	25
Specific Conductance (EC)	0.520	0.00500	mmhos/cm	0.535		2.79	25

Batch B5E1332 - Saturated Paste pH/EC

Blank (B5E1332-BLK1)

Prepared: 05/13/2025 Analyzed: 05/14/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B5E1332-DUP1)

Source: E5E0196-05

Prepared: 05/13/2025 Analyzed: 05/14/2025

pH	8.31		pH Units	8.31		0.00	25
Specific Conductance (EC)	0.234	0.00500	mmhos/cm	0.226		3.78	25

Batch B5E1338 - Saturated Paste pH/EC

Duplicate (B5E1338-DUP1)

Source: E5E0186-02

Prepared: 05/13/2025 Analyzed: 05/14/2025

pH	8.44		pH Units	8.41		0.356	25
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Wheat Ridge CO 80033

Jeremy Espinoza

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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 B5E0735 - EPA 5030 (soil)

Blank (B5E0735-BLK1)

Prepared: 05/07/2025 Analyzed: 05/10/2025

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
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U

Surrogate: 1,2-Dichloroethane-d4	0.13	"	0.125	103	70-130
Surrogate: Toluene-d8	0.12	"	0.125	99.4	70-130
Surrogate: 4-Bromofluorobenzene	0.12	"	0.125	95.0	70-130

LCS (B5E0735-BS1)

Prepared: 05/07/2025 Analyzed: 05/10/2025

1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100	110	70-130
1,3,5-Trimethylbenzene	0.111	0.00200	"	0.100	111	70-130
Benzene	0.104	0.00200	"	0.100	104	70-130
Ethylbenzene	0.105	0.00200	"	0.100	105	70-130
Toluene	0.105	0.00200	"	0.100	105	70-130
o-Xylene	0.106	0.00200	"	0.100	106	70-130
m,p-Xylene	0.214	0.00400	"	0.200	107	70-130

Surrogate: 1,2-Dichloroethane-d4	0.13	"	0.125	103	70-130
Surrogate: Toluene-d8	0.13	"	0.125	101	70-130
Surrogate: 4-Bromofluorobenzene	0.13	"	0.125	104	70-130

Matrix Spike (B5E0735-MS1)

Source: E5E0192-01

Prepared: 05/07/2025 Analyzed: 05/10/2025

1,2,4-Trimethylbenzene	0.135	0.00200	mg/kg	0.100	ND	135	70-130	QM-07
1,3,5-Trimethylbenzene	0.138	0.00200	"	0.100	ND	138	70-130	QM-07
Benzene	0.121	0.00200	"	0.100	ND	121	70-130	

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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 B5E0735 - EPA 5030 (soil)

Matrix Spike (B5E0735-MS1)			Source: E5E0192-01			Prepared: 05/07/2025 Analyzed: 05/10/2025				
Ethylbenzene	0.133	0.00200	mg/kg	0.100	ND	133	70-130			QM-07
Toluene	0.126	0.00200	"	0.100	ND	126	70-130			
o-Xylene	0.131	0.00200	"	0.100	ND	131	70-130			QM-07
m,p-Xylene	0.270	0.00400	"	0.200	ND	135	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

Matrix Spike Dup (B5E0735-MSD1)			Source: E5E0192-01			Prepared: 05/07/2025 Analyzed: 05/10/2025				
1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100	ND	107	70-130	23.2	20	QR-02
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130	25.1	20	QR-02
Benzene	0.101	0.00200	"	0.100	ND	101	70-130	18.4	20	
Ethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130	25.3	20	QR-02
Toluene	0.101	0.00200	"	0.100	ND	101	70-130	22.0	20	QR-02
o-Xylene	0.103	0.00200	"	0.100	ND	103	70-130	24.2	20	QR-02
m,p-Xylene	0.210	0.00400	"	0.200	ND	105	70-130	25.0	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

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L11-27D WHs

TOTAL METALS BY EPA 7199 - Quality Control
Enthalpy Orange

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 371461 - EPA 3060A										
BLANK (QC1257747)					Prepared: 05/15/2025 Analyzed: 05/16/2025					
Hexavalent Chromium	ND	0.30	mg/Kg				-			ND
LCS (QC1257748)					Prepared: 05/15/2025 Analyzed: 05/16/2025					
Hexavalent Chromium	38.73	0.6000	mg/Kg	40.00		97	80-120			
Matrix Spike (QC1257750)					Prepared: 05/15/2025 Analyzed: 05/16/2025					
		Source: 532345-001								
Hexavalent Chromium	32.28	0.5976	mg/Kg	39.84	0	81	70-130			
Duplicate (QC1257751)					Prepared: 05/15/2025 Analyzed: 05/16/2025					
		Source: 532345-001								
Hexavalent Chromium	ND	0.2907	mg/Kg		0		-	30		ND

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Jeremy Espinoza

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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 Not Detected

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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