



Ensolum

October 23, 2025

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Cook 2,21,22,24,31,32-9 WH

Project Number - 09A14171118

Attached are your analytical results for KMG - Cook 2,21,22,24,31,32-9 WH received by Origins Laboratory October 17, 2025. This project is associated with Origins project number E5J0443-01.

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.

The laboratory is TNI accredited by the Utah DHHS ELAP under certificate number CO010822024.

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





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

Jeremy Espinoza
Project Number: 09A14171118
Project: KMG - Cook 2,21,22,24,31,32-9 WH

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01(21-9)@6'	E5J0443-01	Soil	October 17, 2025 12:35	10/17/2025 17:31
B02(31-9)@6'	E5J0443-02	Soil	October 17, 2025 12:49	10/17/2025 17:31
B03(2-9)@6'	E5J0443-03	Soil	October 17, 2025 13:04	10/17/2025 17:31
B04(32-9)@6'	E5J0443-04	Soil	October 17, 2025 13:12	10/17/2025 17:31
B05(24-9)@6'	E5J0443-05	Soil	October 17, 2025 13:18	10/17/2025 17:31
B06(22-9)@6'	E5J0443-06	Soil	October 17, 2025 13:32	10/17/2025 17:31
WH-Riser(31-9)@3'	E5J0443-07	Soil	October 17, 2025 12:53	10/17/2025 17:31
WH-Riser(24-9)@3'	E5J0443-08	Soil	October 17, 2025 13:25	10/17/2025 17:31
Native-BG04@3'	E5J0443-09	Soil	October 17, 2025 12:55	10/17/2025 17:31
Native-BG04@6'	E5J0443-10	Soil	October 17, 2025 12:53	10/17/2025 17:31
Native-BG05@3'	E5J0443-11	Soil	October 17, 2025 12:50	10/17/2025 17:31
Native-BG05@6'	E5J0443-12	Soil	October 17, 2025 12:45	10/17/2025 17:31
Native-BG06@3'	E5J0443-13	Soil	October 17, 2025 12:42	10/17/2025 17:31
Native-BG06@6'	E5J0443-14	Soil	October 17, 2025 12:48	10/17/2025 17:31

Origins Laboratory

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ORIGINS LABORATORY

Ensolum

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A14171118

Project: KMG - Cook 2,21,22,24,31,32-9 WH

Origins Laboratory



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ORIGINS

LABORATORY

ES50443

Client: ENSOLAM
 Address: _____

Project Manager: Tanya Espinoza
 Project Name: COOK 2.21.22.24.31.32.9 well
 Project Number: 00417118

Key: W=Water
GW=Groundwater

Telephone Number: _____

Collected By: ELIZABETH E. + JAVIER

SW=Surface Water
 WW=Waste Water

Email Address: _____

Invoice/Billing Info: Initial

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 Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis						Comments	
							Fullst 915	PH	EC	DAR	Boron 915	MC105		
1	B01(21-9)06.	10/17/25	1235	3	S	UNP	X							
2	B01(31-9)06.		1249											
3	B03(2-9)06.		1304											
4	B04(51-9)06.		1312											
5	B05(24-9)06.		1318											
6	B06(22-9)06.		1332											
7	WH-Riser(31-9)03.		1253											
8	WH-Riser(24-9)03.		1325											
9	Nature-B604 03.		1255	2			X	X	X	X	X			
10	Nature-B604 06.		1253				X	X	X	X	X			

Relinquished By: _____ Date: 10/17/25 Time: 1650 Received By: Tanya Espinoza Date: 10-17-25 Time: 17:31

Relinquished By: _____ Date: 10-17-25 Time: 1725 Received By: NB Date: 10/17/25 Time: 17:31

Temp Received - 2.5°C Received On Ice? Yes No

Turnaround Time
 SAME DAY 24 Hr
 48 Hr 72
 Standard

ORIGINS

LABORATORY

ORIGINS WORK ORDER

6550443

Client: ENSOIUM

Address: _____

Telephone Number: _____

Email Address: _____

Project Manager: JERRY ESQUIZZA

Project Name: LOOK E, 21, 22, 24, 31, 32-9

Project Number: 09A1417.1119

Collected By: ELIZABETH Z + TERRY R

Invoice/Billing Info: INITIAL

W=Water

GW=Groundwater

SW=Surface Water

WW=Waste 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 Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis					Comments
							DH	EC	SAR	Boron	als metals	
1	Nature-B605E3	10/17/25	1250	2	S	UNP	X	X	X	X		
2	Nature-B605E3		1245	1			X	X	X	X		
3	Nature-B605E3		1242	1			X	X	X	X		
4	Nature-B605E3		1248	1			X	X	X	X		
5												
6												
7												
8												
9												
10												

Relinquished By: _____ Date: 10/17/25 Time: 1650

Received By: Jerry Esquizza Date: 10-17-25 Time: 1650

Turnaround Time
 SAME DAY 24 Hr
 48 Hr 72
 Standard

Temp Received: 2.5°C Received On Ice? Yes No

Relinquished By: Jerry Esquizza Date: 10-17-25 Time: 17:31

Received By: NB Date: 10/17/25 Time: 17:31

1725 Elk Place Denver, CO 80211 | #303.433.1323 | origins@originslab.com

Sample Receipt Checklist

Origins Work Order: 6550443

Client: Ensolom

Client Project ID: Cook 2, 21... 32-9 WH

Checklist Completed by: TEH / omw

Shipped Via: HD

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

Date/time completed: 10/17/25

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 2.5 °C (Describe)

Thermometer ID: T-004

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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 in the additional comments (above) and the case narrative.

[Signature]
Reviewed by (Project Manager)

10/21/25
Date/Time Reviewed



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

Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

B01(21-9)@6'

10/17/2025 12:35:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0443-01 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	0.428		0.118	mg/L dry	1	B5J2003	10/20/2025	10/21/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND	0.190	0.237	mg/kg dry	1	B5J2013	10/20/2025	10/22/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		29.7	mg/kg dry	1	B5J2002	10/20/2025	10/20/2025	U
Residual Range Organics (C28-C36)	ND		119	"	"	"	"	"	U
Surrogate: o-Terphenyl	89.5 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B5J2036	10/20/2025	10/20/2025	U
1,3,5-Trimethylbenzene	ND		0.002	"	"	"	"	"	U
Benzene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Xylenes, total	ND		0.002	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.237	"	"	"	"	"	U

Origins Laboratory

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Jeremy Espinoza
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B01(21-9)@6'
10/17/2025 12:35:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0443-01 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	109 %			70-130		B5J2036	10/20/2025	10/20/2025	
Surrogate: Toluene-d8	99.6 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.721		0.499	meq/L	10	[CALC]	10/20/2025	10/21/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.16		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B5J2021	10/20/2025	10/20/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.023	"	"	"	"	"	U
Anthracene	ND		0.023	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.023	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.023	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.023	"	"	"	"	"	U
Chrysene	ND		0.023	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.023	"	"	"	"	"	U

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B01(21-9)@6'

10/17/2025 12:35:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5J0443-01 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND		0.023	mg/kg dry	1	B5J2021	10/20/2025	10/20/2025	U
Fluorene	ND		0.023	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.023	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.023	"	"	"	"	"	U

Surrogate: Fluorene-d10	95.4 %			60-130		"	"	"	
Surrogate: Anthracene-d10	89.5 %			60-130		"	"	"	
Surrogate: Pyrene-d10	97.5 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.8 %			60-130		"	"	"	

Percent Solids

Total Solids, Percent	84.4			mass percent	1	B5J2033	10/20/2025	10/20/2025	
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pH in Soil by 9045D

pH	8.69			pH Units	1	B5J2005	10/20/2025	10/21/2025	
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SAR by 20B Saturated Paste

SAR	4.40		0.0100	SAR	1	B5J2004	"	10/21/2025	
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Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

B01(21-9)@6'

10/17/2025 12:35:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0443-01 (Soil)

Origins Laboratory

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.475		0.00500	mmhos/cm	1	B5J2005	10/20/2025	10/21/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.90		0.227	mg/kg dry	10	B5J2011	10/20/2025	10/21/2025	
Barium	120		64.1	"	"	"	"	"	
Cadmium	ND		0.297	"	"	"	"	"	U
Copper	ND		36.0	"	"	"	"	"	U
Lead	ND		10.9	"	"	"	"	"	U
Nickel	ND		20.3	"	"	"	"	"	U
Selenium	ND		0.192	"	"	"	"	"	U
Silver	ND		0.625	"	"	"	"	"	U
Zinc	ND		289	"	"	"	"	"	U

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

Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

B02(31-9)@6'

10/17/2025 12:49:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0443-02 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	0.456		0.108	mg/L dry	1	B5J2003	10/20/2025	10/21/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND	0.171	0.214	mg/kg dry	1	B5J2013	10/20/2025	10/22/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		27.3	mg/kg dry	1	B5J2002	10/20/2025	10/20/2025	U
Residual Range Organics (C28-C36)	ND		109	"	"	"	"	"	U
Surrogate: o-Terphenyl	91.1 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B5J2036	10/20/2025	10/20/2025	U
1,3,5-Trimethylbenzene	ND		0.002	"	"	"	"	"	U
Benzene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Xylenes, total	ND		0.002	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.217	"	"	"	"	"	U

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 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

B02(31-9)@6'

10/17/2025 12:49:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0443-02 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	111 %			70-130		B5J2036	10/20/2025	10/20/2025	
Surrogate: Toluene-d8	97.9 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.574		0.499	meq/L	10	[CALC]	10/20/2025	10/21/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.01		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B5J2021	10/20/2025	10/20/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.021	"	"	"	"	"	U
Anthracene	ND		0.021	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.021	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.021	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.021	"	"	"	"	"	U
Chrysene	ND		0.021	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.021	"	"	"	"	"	U

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 Project: KMG - Cook 2,21,22,24,31,32-9 WH

B02(31-9)@6'

10/17/2025 12:49:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0443-02 (Soil)

Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND		0.021	mg/kg dry	1	B5J2021	10/20/2025	10/20/2025	U
Fluorene	ND		0.021	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.021	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.021	"	"	"	"	"	U

Surrogate: Fluorene-d10	95.2 %			60-130		"	"	"	
Surrogate: Anthracene-d10	90.1 %			60-130		"	"	"	
Surrogate: Pyrene-d10	99.1 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.2 %			60-130		"	"	"	

Percent Solids

Total Solids, Percent	92.2			mass percent	1	B5J2033	10/20/2025	10/20/2025	
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pH in Soil by 9045D

pH	8.99			pH Units	1	B5J2005	10/20/2025	10/21/2025	
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SAR by 20B Saturated Paste

SAR	4.79		0.0100	SAR	1	B5J2004	"	10/21/2025	
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Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

B02(31-9)@6'

10/17/2025 12:49:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0443-02 (Soil)

Origins Laboratory

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.406		0.00500	mmhos/cm	1	B5J2005	10/20/2025	10/21/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.93		0.207	mg/kg dry	10	B5J2011	10/20/2025	10/21/2025	
Barium	151		58.4	"	"	"	"	"	
Cadmium	ND		0.271	"	"	"	"	"	U
Copper	ND		32.8	"	"	"	"	"	U
Lead	ND		9.98	"	"	"	"	"	U
Nickel	ND		18.5	"	"	"	"	"	U
Selenium	ND		0.175	"	"	"	"	"	U
Silver	ND		0.570	"	"	"	"	"	U
Zinc	ND		264	"	"	"	"	"	U

Origins Laboratory

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

Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

B03(2-9)@6'

10/17/2025 1:04:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0443-03 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	0.496		0.128	mg/L dry	1	B5J2003	10/20/2025	10/21/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	0.212	0.204	0.254	mg/kg dry	1	B5J2013	10/20/2025	10/22/2025	J
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		31.9	mg/kg dry	1	B5J2002	10/20/2025	10/20/2025	U
Residual Range Organics (C28-C36)	ND		127	"	"	"	"	"	U
<i>Surrogate: o-Terphenyl</i>	75.6 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.003	mg/kg dry	1	B5J2036	10/20/2025	10/20/2025	U
1,3,5-Trimethylbenzene	ND		0.003	"	"	"	"	"	U
Benzene	ND		0.003	"	"	"	"	"	U
Ethylbenzene	ND		0.003	"	"	"	"	"	U
Toluene	ND		0.003	"	"	"	"	"	U
Xylenes, total	ND		0.003	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.255	"	"	"	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	113 %			70-130		"	"	"	

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Ensolium
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

B03(2-9)@6'

10/17/2025 1:04:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0443-03 (Soil)

Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.1 %			70-130		B5J2036	10/20/2025	10/20/2025	
Surrogate: 4-Bromofluorobenzene	103 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	10/20/2025	10/21/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	4.57		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.003	mg/kg dry	1	B5J2021	10/20/2025	10/20/2025	U
2-Methylnaphthalene	ND		0.003	"	"	"	"	"	U
Acenaphthene	ND		0.026	"	"	"	"	"	U
Anthracene	ND		0.026	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.026	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.026	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.026	"	"	"	"	"	U
Chrysene	ND		0.026	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.026	"	"	"	"	"	U
Fluoranthene	ND		0.026	"	"	"	"	"	U

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Ensolium
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

B03(2-9)@6'

10/17/2025 1:04:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5J0443-03 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Fluorene	ND		0.026	mg/kg dry	1	B5J2021	10/20/2025	10/20/2025	U
Indeno (1,2,3-cd) pyrene	ND		0.026	"	"	"	"	"	U
Naphthalene	ND		0.003	"	"	"	"	"	U
Pyrene	ND		0.026	"	"	"	"	"	U

Surrogate: Fluorene-d10	96.0 %			60-130		"	"	"	
Surrogate: Anthracene-d10	90.7 %			60-130		"	"	"	
Surrogate: Pyrene-d10	97.9 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.5 %			60-130		"	"	"	

Percent Solids

Total Solids, Percent	78.5			mass percent	1	B5J2033	10/20/2025	10/20/2025	
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pH in Soil by 9045D

pH	9.65			pH Units	1	B5J2005	10/20/2025	10/21/2025	
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SAR by 20B Saturated Paste

SAR	9.85		0.0100	SAR	1	B5J2004	"	10/21/2025	
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Specific Conductance Mod. 9050A

Origins Laboratory

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

B03(2-9)@6'

10/17/2025 1:04:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5J0443-03 (Soil)
 Origins Laboratory**

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.500		0.00500	mmhos/cm	1	B5J2005	10/20/2025	10/21/2025	
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Table 915 metals by EPA 6020B

Arsenic	6.17		0.236	mg/kg dry	10	B5J2011	10/20/2025	10/21/2025	
Barium	137		66.7	"	"	"	"	"	
Cadmium	ND		0.309	"	"	"	"	"	U
Copper	ND		37.4	"	"	"	"	"	U
Lead	ND		11.4	"	"	"	"	"	U
Nickel	ND		21.1	"	"	"	"	"	U
Selenium	ND		0.200	"	"	"	"	"	U
Silver	ND		0.650	"	"	"	"	"	U
Zinc	ND		301	"	"	"	"	"	U

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Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

B04(32-9)@6'

10/17/2025 1:12:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0443-04 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	0.757		0.119	mg/L dry	1	B5J2003	10/20/2025	10/21/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND	0.193	0.241	mg/kg dry	1	B5J2013	10/20/2025	10/22/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		29.5	mg/kg dry	1	B5J2002	10/20/2025	10/20/2025	U
Residual Range Organics (C28-C36)	ND		118	"	"	"	"	"	U
Surrogate: o-Terphenyl	80.7 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B5J2036	10/20/2025	10/20/2025	U
1,3,5-Trimethylbenzene	ND		0.002	"	"	"	"	"	U
Benzene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Xylenes, total	ND		0.002	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.238	"	"	"	"	"	U

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Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

B04(32-9)@6'
10/17/2025 1:12:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0443-04 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	113 %			70-130		B5J2036	10/20/2025	10/20/2025	
Surrogate: Toluene-d8	97.6 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	10/20/2025	10/21/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	4.42		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B5J2021	10/20/2025	10/20/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.024	"	"	"	"	"	U
Anthracene	ND		0.024	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.024	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.024	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.024	"	"	"	"	"	U
Chrysene	ND		0.024	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.024	"	"	"	"	"	U

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Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

B04(32-9)@6'

10/17/2025 1:12:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0443-04 (Soil)

Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND		0.024	mg/kg dry	1	B5J2021	10/20/2025	10/20/2025	U
Fluorene	ND		0.024	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.024	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.024	"	"	"	"	"	U

Surrogate: Fluorene-d10	94.5 %			60-130		"	"	"	
Surrogate: Anthracene-d10	91.6 %			60-130		"	"	"	
Surrogate: Pyrene-d10	101 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.3 %			60-130		"	"	"	

Percent Solids

Total Solids, Percent	84.1			mass percent	1	B5J2033	10/20/2025	10/20/2025	
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pH in Soil by 9045D

pH	9.36			pH Units	1	B5J2005	10/20/2025	10/21/2025	
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SAR by 20B Saturated Paste

SAR	9.62		0.0100	SAR	1	B5J2004	"	10/21/2025	
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Ensolium
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

B04(32-9)@6'
10/17/2025 1:12:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0443-04 (Soil)
Origins Laboratory

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.626		0.00500	mmhos/cm	1	B5J2005	10/20/2025	10/21/2025	
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Table 915 metals by EPA 6020B

Arsenic	7.60		0.222	mg/kg dry	10	B5J2011	10/20/2025	10/21/2025	
Barium	206		62.8	"	"	"	"	"	
Cadmium	ND		0.291	"	"	"	"	"	U
Copper	ND		35.2	"	"	"	"	"	U
Lead	14.1		10.7	"	"	"	"	"	
Nickel	ND		19.9	"	"	"	"	"	U
Selenium	ND		0.188	"	"	"	"	"	U
Silver	ND		0.612	"	"	"	"	"	U
Zinc	ND		283	"	"	"	"	"	U

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Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

B05(24-9)@6'

10/17/2025 1:18:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0443-05 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	0.401		0.114	mg/L dry	1	B5J2003	10/20/2025	10/21/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND	0.182	0.227	mg/kg dry	1	B5J2013	10/20/2025	10/22/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		28.6	mg/kg dry	1	B5J2002	10/20/2025	10/20/2025	U
Residual Range Organics (C28-C36)	ND		115	"	"	"	"	"	U
Surrogate: o-Terphenyl	88.6 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B5J2036	10/20/2025	10/20/2025	U
1,3,5-Trimethylbenzene	ND		0.002	"	"	"	"	"	U
Benzene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Xylenes, total	ND		0.002	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.229	"	"	"	"	"	U

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

B05(24-9)@6'
10/17/2025 1:18:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0443-05 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	111 %			70-130		B5J2036	10/20/2025	10/20/2025	
Surrogate: Toluene-d8	98.3 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	10/20/2025	10/21/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.38		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B5J2021	10/20/2025	10/20/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.023	"	"	"	"	"	U
Anthracene	ND		0.023	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.023	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.023	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.023	"	"	"	"	"	U
Chrysene	ND		0.023	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.023	"	"	"	"	"	U

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Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

B05(24-9)@6'

10/17/2025 1:18:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0443-05 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND		0.023	mg/kg dry	1	B5J2021	10/20/2025	10/20/2025	U
Fluorene	ND		0.023	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.023	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.023	"	"	"	"	"	U

Surrogate: Fluorene-d10	94.8 %			60-130		"	"	"	
Surrogate: Anthracene-d10	90.5 %			60-130		"	"	"	
Surrogate: Pyrene-d10	99.8 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	96.4 %			60-130		"	"	"	

Percent Solids

Total Solids, Percent	87.5			mass percent	1	B5J2033	10/20/2025	10/20/2025	
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pH in Soil by 9045D

pH	9.00			pH Units	1	B5J2005	10/20/2025	10/21/2025	
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SAR by 20B Saturated Paste

SAR	7.10		0.0100	SAR	1	B5J2004	"	10/21/2025	
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Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

B05(24-9)@6'

10/17/2025 1:18:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0443-05 (Soil)

Origins Laboratory

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.432		0.00500	mmhos/cm	1	B5J2005	10/20/2025	10/21/2025	
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Table 915 metals by EPA 6020B

Arsenic	6.01		0.225	mg/kg dry	10	B5J2011	10/20/2025	10/21/2025	
Barium	208		63.5	"	"	"	"	"	
Cadmium	ND		0.294	"	"	"	"	"	U
Copper	ND		35.6	"	"	"	"	"	U
Lead	12.3		10.8	"	"	"	"	"	
Nickel	ND		20.1	"	"	"	"	"	U
Selenium	ND		0.190	"	"	"	"	"	U
Silver	ND		0.619	"	"	"	"	"	U
Zinc	ND		286	"	"	"	"	"	U

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

B06(22-9)@6'

10/17/2025 1:32:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0443-06 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	0.517		0.117	mg/L dry	1	B5J2003	10/20/2025	10/21/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND	0.193	0.241	mg/kg dry	1	B5J2013	10/20/2025	10/22/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		29.4	mg/kg dry	1	B5J2002	10/20/2025	10/20/2025	U
Residual Range Organics (C28-C36)	ND		117	"	"	"	"	"	U
Surrogate: o-Terphenyl	85.8 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B5J2036	10/20/2025	10/20/2025	U
1,3,5-Trimethylbenzene	ND		0.002	"	"	"	"	"	U
Benzene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Xylenes, total	ND		0.002	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.235	"	"	"	"	"	U

Origins Laboratory

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

Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

B06(22-9)@6'
10/17/2025 1:32:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0443-06 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	111 %			70-130		B5J2036	10/20/2025	10/20/2025	
Surrogate: Toluene-d8	98.4 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.549		0.499	meq/L	10	[CALC]	10/20/2025	10/21/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.34		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B5J2021	10/20/2025	10/20/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.023	"	"	"	"	"	U
Anthracene	ND		0.023	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.023	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.023	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.023	"	"	"	"	"	U
Chrysene	ND		0.023	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.023	"	"	"	"	"	U

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

Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

B06(22-9)@6'

10/17/2025 1:32:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0443-06 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND		0.023	mg/kg dry	1	B5J2021	10/20/2025	10/20/2025	U
Fluorene	ND		0.023	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.023	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.023	"	"	"	"	"	U

Surrogate: Fluorene-d10	93.3 %			60-130		"	"	"	
Surrogate: Anthracene-d10	90.8 %			60-130		"	"	"	
Surrogate: Pyrene-d10	99.1 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.2 %			60-130		"	"	"	

Percent Solids

Total Solids, Percent	85.2			mass percent	1	B5J2033	10/20/2025	10/20/2025	
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pH in Soil by 9045D

pH	8.48			pH Units	1	B5J2005	10/20/2025	10/21/2025	
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SAR by 20B Saturated Paste

SAR	5.30		0.0100	SAR	1	B5J2004	"	10/21/2025	
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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

B06(22-9)@6'
10/17/2025 1:32:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0443-06 (Soil)
Origins Laboratory

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.446		0.00500	mmhos/cm	1	B5J2005	10/20/2025	10/21/2025	
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Table 915 metals by EPA 6020B

Arsenic	5.99		0.218	mg/kg dry	10	B5J2011	10/20/2025	10/21/2025	
Barium	226		61.6	"	"	"	"	"	
Cadmium	ND		0.285	"	"	"	"	"	U
Copper	ND		34.5	"	"	"	"	"	U
Lead	ND		10.5	"	"	"	"	"	U
Nickel	ND		19.5	"	"	"	"	"	U
Selenium	ND		0.185	"	"	"	"	"	U
Silver	ND		0.601	"	"	"	"	"	U
Zinc	ND		278	"	"	"	"	"	U

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Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

WH-Riser(31-9)@3'
10/17/2025 12:53:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0443-07 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	0.172		0.111	mg/L dry	1	B5J2003	10/20/2025	10/21/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND	0.181	0.226	mg/kg dry	1	B5J2013	10/20/2025	10/22/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		27.8	mg/kg dry	1	B5J2002	10/20/2025	10/20/2025	U
Residual Range Organics (C28-C36)	ND		111	"	"	"	"	"	U
Surrogate: o-Terphenyl	88.5 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B5J2036	10/20/2025	10/20/2025	U
1,3,5-Trimethylbenzene	ND		0.002	"	"	"	"	"	U
Benzene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Xylenes, total	ND		0.002	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.224	"	"	"	"	"	U

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

WH-Riser(31-9)@3'
10/17/2025 12:53:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0443-07 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			B5J2036	10/20/2025	10/20/2025	
Surrogate: Toluene-d8	98.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	10/20/2025	10/21/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.69		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B5J2021	10/20/2025	10/20/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.022	"	"	"	"	"	U
Anthracene	ND		0.022	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.022	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.022	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.022	"	"	"	"	"	U
Chrysene	ND		0.022	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.022	"	"	"	"	"	U

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Ensolium
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

WH-Riser(31-9)@3'
10/17/2025 12:53:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0443-07 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND		0.022	mg/kg dry	1	B5J2021	10/20/2025	10/20/2025	U
Fluorene	ND		0.022	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.022	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.022	"	"	"	"	"	U

Surrogate: Fluorene-d10	94.9 %			60-130		"	"	"	
Surrogate: Anthracene-d10	91.0 %			60-130		"	"	"	
Surrogate: Pyrene-d10	99.7 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	96.5 %			60-130		"	"	"	

Percent Solids

Total Solids, Percent	89.4			mass percent	1	B5J2033	10/20/2025	10/20/2025	
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pH in Soil by 9045D

pH	8.64			pH Units	1	B5J2005	10/20/2025	10/21/2025	
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SAR by 20B Saturated Paste

SAR	5.29		0.0100	SAR	1	B5J2004	"	10/21/2025	
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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

WH-Riser(31-9)@3'
10/17/2025 12:53:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0443-07 (Soil)
Origins Laboratory

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.387		0.00500	mmhos/cm	1	B5J2005	10/20/2025	10/21/2025	
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Table 915 metals by EPA 6020B

Arsenic	1.68		0.221	mg/kg dry	10	B5J2011	10/20/2025	10/21/2025	
Barium	65.9		62.3	"	"	"	"	"	
Cadmium	ND		0.289	"	"	"	"	"	U
Copper	ND		35.0	"	"	"	"	"	U
Lead	ND		10.6	"	"	"	"	"	U
Nickel	ND		19.8	"	"	"	"	"	U
Selenium	ND		0.187	"	"	"	"	"	U
Silver	ND		0.608	"	"	"	"	"	U
Zinc	ND		281	"	"	"	"	"	U

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

WH-Riser(24-9)@3'
10/17/2025 1:25:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0443-08 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	0.144		0.112	mg/L dry	1	B5J2003	10/20/2025	10/21/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND	0.179	0.224	mg/kg dry	1	B5J2013	10/20/2025	10/22/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		27.8	mg/kg dry	1	B5J2002	10/20/2025	10/20/2025	U
Residual Range Organics (C28-C36)	ND		111	"	"	"	"	"	U
Surrogate: o-Terphenyl	97.9 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B5J2036	10/20/2025	10/20/2025	U
1,3,5-Trimethylbenzene	ND		0.002	"	"	"	"	"	U
Benzene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Xylenes, total	ND		0.002	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.223	"	"	"	"	"	U

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Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

WH-Riser(24-9)@3'
10/17/2025 1:25:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0443-08 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	109 %			70-130		B5J2036	10/20/2025	10/20/2025	
Surrogate: Toluene-d8	98.5 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.840		0.499	meq/L	10	[CALC]	10/20/2025	10/21/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.587		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B5J2021	10/20/2025	10/20/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.022	"	"	"	"	"	U
Anthracene	ND		0.022	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.022	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.022	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.022	"	"	"	"	"	U
Chrysene	ND		0.022	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.022	"	"	"	"	"	U

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

WH-Riser(24-9)@3'
10/17/2025 1:25:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0443-08 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND		0.022	mg/kg dry	1	B5J2021	10/20/2025	10/20/2025	U
Fluorene	ND		0.022	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.022	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.022	"	"	"	"	"	U

Surrogate: Fluorene-d10	95.3 %			60-130		"	"	"	
Surrogate: Anthracene-d10	91.5 %			60-130		"	"	"	
Surrogate: Pyrene-d10	96.9 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.3 %			60-130		"	"	"	

Percent Solids

Total Solids, Percent	89.5			mass percent	1	B5J2033	10/20/2025	10/20/2025	
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pH in Soil by 9045D

pH	8.25			pH Units	1	B5J2005	10/20/2025	10/21/2025	
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SAR by 20B Saturated Paste

SAR	0.750		0.0100	SAR	1	B5J2004	"	10/21/2025	
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Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

WH-Riser(24-9)@3'
10/17/2025 1:25:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0443-08 (Soil)
Origins Laboratory

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.194		0.00500	mmhos/cm	1	B5J2005	10/20/2025	10/21/2025	
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Table 915 metals by EPA 6020B

Arsenic	1.70		0.228	mg/kg dry	10	B5J2011	10/20/2025	10/21/2025	
Barium	66.4		64.2	"	"	"	"	"	
Cadmium	ND		0.298	"	"	"	"	"	U
Copper	ND		36.0	"	"	"	"	"	U
Lead	ND		11.0	"	"	"	"	"	U
Nickel	ND		20.4	"	"	"	"	"	U
Selenium	ND		0.193	"	"	"	"	"	U
Silver	ND		0.627	"	"	"	"	"	U
Zinc	ND		290	"	"	"	"	"	U

Origins Laboratory

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

Native-BG04@3'
10/17/2025 12:55:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0443-09 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	ND		0.102	mg/L dry	1	B5J2003	10/20/2025	10/21/2025	U
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND	0.162	0.203	mg/kg dry	1	B5J2013	10/20/2025	10/22/2025	U
Metals by Saturated Paste by EPA 6010									
Calcium	ND		0.499	meq/L	10	[CALC]	10/20/2025	10/21/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	
Percent Solids									
Total Solids, Percent	97.1			mass percent	1	B5J2025	10/20/2025	10/20/2025	
pH in Soil by 9045D									
pH	7.51			pH Units	1	B5J2005	10/20/2025	10/21/2025	
SAR by 20B Saturated Paste									
SAR	0.238		0.0100	SAR	1	B5J2004	"	10/21/2025	

Origins Laboratory

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

Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

Native-BG04@3'

10/17/2025 12:55:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0443-09 (Soil)

Origins Laboratory

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0526		0.00500	mmhos/cm	1	B5J2005	"	10/21/2025	
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Table 915 metals by EPA 6020B

Arsenic	1.88		0.200	mg/kg dry	10	B5J2011	10/20/2025	10/21/2025	
Barium	67.0		56.5	"	"	"	"	"	
Cadmium	ND		0.262	"	"	"	"	"	U
Copper	ND		31.7	"	"	"	"	"	U
Lead	ND		9.64	"	"	"	"	"	U
Nickel	ND		17.9	"	"	"	"	"	U
Selenium	ND		0.169	"	"	"	"	"	U
Silver	ND		0.551	"	"	"	"	"	U
Zinc	ND		255	"	"	"	"	"	U

Origins Laboratory

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

Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

Native-BG04@6'
10/17/2025 12:53:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0443-10 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	0.544		0.106	mg/L dry	1	B5J2003	10/20/2025	10/21/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND	0.173	0.217	mg/kg dry	1	B5J2013	10/20/2025	10/22/2025	U
Metals by Saturated Paste by EPA 6010									
Calcium	0.907		0.499	meq/L	10	[CALC]	10/20/2025	10/21/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.33		0.435	"	"	"	"	"	
Percent Solids									
Total Solids, Percent	94.2			mass percent	1	B5J2025	10/20/2025	10/20/2025	
pH in Soil by 9045D									
pH	8.15			pH Units	1	B5J2005	10/20/2025	10/21/2025	
SAR by 20B Saturated Paste									
SAR	1.68		0.0100	SAR	1	B5J2004	"	10/21/2025	

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

Native-BG04@6'
10/17/2025 12:53:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0443-10 (Soil)
Origins Laboratory

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.261		0.00500	mmhos/cm	1	B5J2005	"	10/21/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.38		0.198	mg/kg dry	10	B5J2011	10/20/2025	10/21/2025	
Barium	146		55.9	"	"	"	"	"	
Cadmium	ND		0.259	"	"	"	"	"	U
Copper	ND		31.4	"	"	"	"	"	U
Lead	ND		9.55	"	"	"	"	"	U
Nickel	ND		17.7	"	"	"	"	"	U
Selenium	ND		0.168	"	"	"	"	"	U
Silver	ND		0.546	"	"	"	"	"	U
Zinc	ND		252	"	"	"	"	"	U

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Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

Native-BG05@3'
10/17/2025 12:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0443-11 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	0.153		0.108	mg/L dry	1	B5J2027	10/20/2025	10/21/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND	0.171	0.214	mg/kg dry	1	B5J2013	10/20/2025	10/22/2025	U
Metals by Saturated Paste by EPA 6010									
Calcium	0.598		0.499	meq/L	10	[CALC]	10/20/2025	10/21/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	
Percent Solids									
Total Solids, Percent	93.0			mass percent	1	B5J2025	10/20/2025	10/20/2025	
pH in Soil by 9045D									
pH	7.75			pH Units	1	B5J2005	10/20/2025	10/21/2025	
SAR by 20B Saturated Paste									
SAR	0.204		0.0100	SAR	1	B5J2004	"	10/21/2025	

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Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

Native-BG05@3'
10/17/2025 12:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0443-11 (Soil)
Origins Laboratory

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.110		0.00500	mmhos/cm	1	B5J2005	"	10/21/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.79		0.199	mg/kg dry	10	B5J2011	10/20/2025	10/21/2025	
Barium	91.5		56.3	"	"	"	"	"	
Cadmium	ND		0.261	"	"	"	"	"	U
Copper	ND		31.6	"	"	"	"	"	U
Lead	ND		9.61	"	"	"	"	"	U
Nickel	ND		17.8	"	"	"	"	"	U
Selenium	ND		0.169	"	"	"	"	"	U
Silver	ND		0.549	"	"	"	"	"	U
Zinc	ND		254	"	"	"	"	"	U

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Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

Native-BG05@6'
10/17/2025 12:45:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0443-12 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	0.147		0.106	mg/L dry	1	B5J2027	10/20/2025	10/21/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND	0.176	0.220	mg/kg dry	1	B5J2013	10/20/2025	10/22/2025	U
Metals by Saturated Paste by EPA 6010									
Calcium	1.02		0.499	meq/L	10	[CALC]	10/20/2025	10/21/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.542		0.435	"	"	"	"	"	
Percent Solids									
Total Solids, Percent	94.3			mass percent	1	B5J2025	10/20/2025	10/20/2025	
pH in Soil by 9045D									
pH	8.02			pH Units	1	B5J2031	10/20/2025	10/21/2025	
SAR by 20B Saturated Paste									
SAR	0.641		0.0100	SAR	1	B5J2028	10/20/2025	10/21/2025	

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Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

Native-BG05@6'
10/17/2025 12:45:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0443-12 (Soil)									
Origins Laboratory									
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.203		0.00500	mmhos/cm	1	B5J2031	10/20/2025	10/21/2025	
Table 915 metals by EPA 6020B									
Arsenic	3.21		0.219	mg/kg dry	10	B5J2011	10/20/2025	10/21/2025	
Barium	115		61.7	"	"	"	"	"	
Cadmium	ND		0.286	"	"	"	"	"	U
Copper	ND		34.6	"	"	"	"	"	U
Lead	ND		10.5	"	"	"	"	"	U
Nickel	ND		19.6	"	"	"	"	"	U
Selenium	ND		0.185	"	"	"	"	"	U
Silver	ND		0.602	"	"	"	"	"	U
Zinc	ND		278	"	"	"	"	"	U

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Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

Native-BG06@3'
10/17/2025 12:42:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0443-13 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	ND		0.104	mg/L dry	1	B5J207	10/20/2025	10/21/2025	U
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND	0.174	0.218	mg/kg dry	1	B5J2013	10/20/2025	10/22/2025	U
Metals by Saturated Paste by EPA 6010									
Calcium	ND		0.499	meq/L	10	[CALC]	10/20/2025	10/21/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	
Percent Solids									
Total Solids, Percent	95.4			mass percent	1	B5J2025	10/20/2025	10/20/2025	
pH in Soil by 9045D									
pH	7.80			pH Units	1	B5J2031	10/20/2025	10/21/2025	
SAR by 20B Saturated Paste									
SAR	0.162		0.0100	SAR	1	B5J2028	10/20/2025	10/21/2025	

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Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

Native-BG06@3'
10/17/2025 12:42:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0443-13 (Soil)
Origins Laboratory

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0617		0.00500	mmhos/cm	1	B5J2031	10/20/2025	10/21/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.64		0.210	mg/kg dry	10	B5J2011	10/20/2025	10/21/2025	
Barium	89.2		59.2	"	"	"	"	"	
Cadmium	ND		0.274	"	"	"	"	"	U
Copper	ND		33.2	"	"	"	"	"	U
Lead	ND		10.1	"	"	"	"	"	U
Nickel	ND		18.8	"	"	"	"	"	U
Selenium	ND		0.178	"	"	"	"	"	U
Silver	ND		0.578	"	"	"	"	"	U
Zinc	ND		267	"	"	"	"	"	U

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Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

Native-BG06@6'
10/17/2025 12:48:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5J0443-14 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	0.505		0.115	mg/L dry	1	B5J2027	10/20/2025	10/21/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND	0.184	0.230	mg/kg dry	1	B5J2013	10/20/2025	10/22/2025	U
Metals by Saturated Paste by EPA 6010									
Calcium	1.11		0.499	meq/L	10	[CALC]	10/20/2025	10/21/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.740		0.435	"	"	"	"	"	
Percent Solids									
Total Solids, Percent	86.7			mass percent	1	B5J2025	10/20/2025	10/20/2025	
pH in Soil by 9045D									
pH	8.10			pH Units	1	B5J2031	10/20/2025	10/21/2025	
SAR by 20B Saturated Paste									
SAR	0.841		0.0100	SAR	1	B5J2028	10/20/2025	10/21/2025	

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Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

Native-BG06@6'
10/17/2025 12:48:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5J0443-14 (Soil)
Origins Laboratory

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.231		0.00500	mmhos/cm	1	B5J2031	10/20/2025	10/21/2025	
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Table 915 metals by EPA 6020B

Arsenic	4.50		0.232	mg/kg dry	10	B5J2011	10/20/2025	10/21/2025	
Barium	176		65.6	"	"	"	"	"	
Cadmium	ND		0.304	"	"	"	"	"	U
Copper	ND		36.8	"	"	"	"	"	U
Lead	ND		11.2	"	"	"	"	"	U
Nickel	ND		20.8	"	"	"	"	"	U
Selenium	ND		0.197	"	"	"	"	"	U
Silver	ND		0.640	"	"	"	"	"	U
Zinc	ND		296	"	"	"	"	"	U

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Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

*** DEFAULT GENERAL METHOD *** - Quality Control

Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5J2013 - EPA 3060A										
Blank (B5J2013-BLK1)										
					Prepared: 10/20/2025 Analyzed: 10/22/2025					
Hexavalent Chromium	ND	0.200	mg/kg wet							U
LCS (B5J2013-BS1)										
					Prepared: 10/20/2025 Analyzed: 10/22/2025					
Hexavalent Chromium	1.92	0.200	mg/kg wet	2.00		95.8	80-120			
Matrix Spike (B5J2013-MS1)										
		Source: E5J0443-01								
					Prepared: 10/20/2025 Analyzed: 10/22/2025					
Hexavalent Chromium	2.14	0.228	mg/kg dry	2.28	ND	93.7	75-125			
Matrix Spike (B5J2013-MS2)										
		Source: E5J0443-01								
					Prepared: 10/20/2025 Analyzed: 10/22/2025					
Hexavalent Chromium	206	23.3	mg/kg dry	253	ND	81.6	75-125			
Matrix Spike Dup (B5J2013-MSD1)										
		Source: E5J0443-01								
					Prepared: 10/20/2025 Analyzed: 10/22/2025					
Hexavalent Chromium	2.24	0.241	mg/kg dry	2.41	ND	93.0	75-125	4.48	20	
Post Spike (B5J2013-PS1)										
		Source: E5J0443-01								
					Prepared: 10/20/2025 Analyzed: 10/22/2025					
Hexavalent Chromium	52.5		ug/L	50.0	2.32	100	80-120			
Batch B5J2025 - % Solids										
Duplicate (B5J2025-DUP1)										
		Source: E5J0443-09								
					Prepared: 10/20/2025 Analyzed: 10/20/2025					
Total Solids, Percent	96.9		mass percent		97.1			0.240	20	
Duplicate (B5J2025-DUP2)										
		Source: E5J0443-10								
					Prepared: 10/20/2025 Analyzed: 10/20/2025					
Total Solids, Percent	93.6		mass percent		94.2			0.595	20	
Batch B5J2033 - % Solids										
Duplicate (B5J2033-DUP1)										
		Source: E5J0413-13								
					Prepared: 10/20/2025 Analyzed: 10/20/2025					

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

***** DEFAULT GENERAL METHOD *** - 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 B5J2033 - % Solids

Duplicate (B5J2033-DUP1)

Source: E5J0413-13

Prepared: 10/20/2025 Analyzed: 10/20/2025

Total Solids, Percent	88.1		mass percent		88.1			0.0822	20	
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Duplicate (B5J2033-DUP2)

Source: E5J0413-14

Prepared: 10/20/2025 Analyzed: 10/20/2025

Total Solids, Percent	84.0		mass percent		84.0			0.000672	20	
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Jeremy Espinoza
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 Project: KMG - Cook 2,21,22,24,31,32-9 WH

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 B5J2003 - DTPA Sorbitol Preparation

Blank (B5J2003-BLK1)

Prepared: 10/20/2025 Analyzed: 10/21/2025

(DTPA Sorbitol) Boron	ND	0.100	mg/L wet							U
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Duplicate (B5J2003-DUP1)

Source: E5J0409-02

Prepared: 10/20/2025 Analyzed: 10/21/2025

(DTPA Sorbitol) Boron	0.112	0.126	mg/L dry		0.111			0.205	50	U
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Batch B5J2004 - Saturated Paste Metals

Blank (B5J2004-BLK1)

Prepared: 10/20/2025 Analyzed: 10/21/2025

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

Duplicate (B5J2004-DUP1)

Source: E5J0440-01

Prepared: 10/20/2025 Analyzed: 10/21/2025

Calcium PPM	55.2	10.0	mg/L		74.7			30.0	50	
SAR	ND	0.0100	SAR		3.06				200	U
Magnesium PPM	11.9	10.0	mg/L		16.2			31.1	50	
Sodium PPM	84.3	10.0	"		112			28.0	50	

Batch B5J2027 - DTPA Sorbitol Preparation

Blank (B5J2027-BLK1)

Prepared: 10/20/2025 Analyzed: 10/21/2025

(DTPA Sorbitol) Boron	ND	0.100	mg/L wet							U
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Duplicate (B5J2027-DUP1)

Source: E5J0443-11

Prepared: 10/20/2025 Analyzed: 10/21/2025

(DTPA Sorbitol) Boron	0.151	0.108	mg/L dry		0.153			1.36	50	
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Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 WH

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 B5J2028 - Saturated Paste Metals

Blank (B5J2028-BLK1)

Prepared: 10/20/2025 Analyzed: 10/21/2025

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

Duplicate (B5J2028-DUP1)

Source: E5J0443-12

Prepared: 10/20/2025 Analyzed: 10/21/2025

SAR	ND	0.0100	SAR	0.641				200		U
Calcium PPM	21.4	10.0	mg/L	20.4			4.78	50		
Magnesium PPM	5.07	10.0	"	5.00			1.39	50		U
Sodium PPM	13.6	10.0	"	12.5			8.82	50		

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171118
 Project: KMG - Cook 2,21,22,24,31,32-9 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 B5J2021 - EPA 3580

Blank (B5J2021-BLK1)

Prepared: 10/20/2025 Analyzed: 10/20/2025

1-Methylnaphthalene	ND	0.002	mg/kg wet							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	190		ug/kg	200	94.8	60-130				
Surrogate: Anthracene-d10	180		"	200	91.6	60-130				
Surrogate: Pyrene-d10	190		"	200	97.1	60-130				
Surrogate: Benzo (a) pyrene-d12	190		"	200	97.3	60-130				

LCS (B5J2021-BS1)

Prepared: 10/20/2025 Analyzed: 10/20/2025

1-Methylnaphthalene	0.205	0.002	mg/kg wet	0.201	102	70-130				
2-Methylnaphthalene	0.209	0.002	"	0.201	104	70-130				
Acenaphthene	0.207	0.020	"	0.201	103	70-130				
Anthracene	0.196	0.020	"	0.201	97.6	70-130				
Benzo (a) anthracene	0.198	0.005	"	0.201	98.8	70-130				
Benzo (a) pyrene	0.190	0.020	"	0.201	94.7	70-130				

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 Project: KMG - Cook 2,21,22,24,31,32-9 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 B5J2021 - EPA 3580

LCS (B5J2021-BS1)

Prepared: 10/20/2025 Analyzed: 10/20/2025

Benzo (b) fluoranthene	0.201	0.020	mg/kg wet	0.201		100	70-130			
Benzo (g,h,i) perylene	0.193	0.020	"	0.201		95.9	70-130			
Benzo (k) fluoranthene	0.190	0.020	"	0.201		94.7	70-130			
Chrysene	0.204	0.020	"	0.201		102	70-130			
Dibenz (a,h) anthracene	0.189	0.020	"	0.201		94.2	70-130			
Fluoranthene	0.199	0.020	"	0.201		98.9	70-130			
Fluorene	0.196	0.020	"	0.201		97.6	70-130			
Indeno (1,2,3-cd) pyrene	0.195	0.020	"	0.201		97.0	70-130			
Naphthalene	0.210	0.002	"	0.201		104	70-130			
Phenanthrene	0.216	0.020	"	0.201		108	70-130			
Pyrene	0.205	0.020	"	0.201		102	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		95.4	60-130			
Surrogate: Anthracene-d10	180		"	200		89.8	60-130			
Surrogate: Pyrene-d10	200		"	200		98.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.6	60-130			

Matrix Spike (B5J2021-MS1)

Source: E5J0441-01

Prepared: 10/20/2025 Analyzed: 10/21/2025

1-Methylnaphthalene	0.253	0.003	mg/kg dry	0.252	0.0006	99.9	70-130			
2-Methylnaphthalene	0.254	0.003	"	0.252	ND	101	70-130			
Acenaphthene	0.248	0.025	"	0.252	0.002	97.5	70-130			
Anthracene	0.236	0.025	"	0.252	ND	93.5	70-130			
Benzo (a) anthracene	0.241	0.006	"	0.252	ND	95.4	70-130			
Benzo (a) pyrene	0.226	0.025	"	0.252	ND	89.5	70-130			
Benzo (b) fluoranthene	0.252	0.025	"	0.252	0.001	99.6	70-130			
Benzo (g,h,i) perylene	0.238	0.025	"	0.252	0.0009	93.9	70-130			
Benzo (k) fluoranthene	0.234	0.025	"	0.252	ND	92.6	70-130			
Chrysene	0.243	0.025	"	0.252	ND	96.2	70-130			

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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5J2021 - EPA 3580

Matrix Spike (B5J2021-MS1)

Source: E5J0441-01

Prepared: 10/20/2025 Analyzed: 10/21/2025

Dibenz (a,h) anthracene	0.234	0.025	mg/kg dry	0.252	0.002	91.9	70-130			
Fluoranthene	0.233	0.025	"	0.252	ND	92.2	70-130			
Fluorene	0.230	0.025	"	0.252	0.0009	90.8	70-130			
Indeno (1,2,3-cd) pyrene	0.231	0.025	"	0.252	0.001	91.0	70-130			
Naphthalene	0.253	0.003	"	0.252	ND	100	70-130			
Phenanthrene	0.258	0.025	"	0.252	0.002	101	70-130			
Pyrene	0.252	0.025	"	0.252	ND	99.8	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		93.9	60-130			
Surrogate: Anthracene-d10	180		"	200		90.8	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.0	60-130			

Matrix Spike Dup (B5J2021-MSD1)

Source: E5J0441-01

Prepared: 10/20/2025 Analyzed: 10/20/2025

1-Methylnaphthalene	0.257	0.003	mg/kg dry	0.252	0.0006	102	70-130	1.93	20	
2-Methylnaphthalene	0.260	0.003	"	0.252	ND	103	70-130	2.27	20	
Acenaphthene	0.246	0.025	"	0.252	0.002	96.8	70-130	0.846	20	
Anthracene	0.237	0.025	"	0.252	ND	94.2	70-130	0.584	20	
Benzo (a) anthracene	0.243	0.006	"	0.252	ND	96.5	70-130	0.991	20	
Benzo (a) pyrene	0.224	0.025	"	0.252	ND	89.0	70-130	0.565	20	
Benzo (b) fluoranthene	0.243	0.025	"	0.252	0.001	96.1	70-130	3.68	20	
Benzo (g,h,i) perylene	0.228	0.025	"	0.252	0.0009	90.1	70-130	4.23	20	
Benzo (k) fluoranthene	0.231	0.025	"	0.252	ND	91.6	70-130	1.12	20	
Chrysene	0.241	0.025	"	0.252	ND	95.6	70-130	0.689	20	
Dibenz (a,h) anthracene	0.227	0.025	"	0.252	0.002	89.2	70-130	3.06	20	
Fluoranthene	0.244	0.025	"	0.252	ND	96.8	70-130	4.75	20	
Fluorene	0.228	0.025	"	0.252	0.0009	90.0	70-130	0.982	20	
Indeno (1,2,3-cd) pyrene	0.233	0.025	"	0.252	0.001	92.0	70-130	1.01	20	

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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 B5J2021 - EPA 3580

Matrix Spike Dup (B5J2021-MSD1)

Source: E5J0441-01

Prepared: 10/20/2025 Analyzed: 10/20/2025

Naphthalene	0.253	0.003	mg/kg dry	0.252	ND	100	70-130	0.136	20	
Phenanthrene	0.257	0.025	"	0.252	0.002	101	70-130	0.204	20	
Pyrene	0.244	0.025	"	0.252	ND	96.9	70-130	3.10	20	
Surrogate: Fluorene-d10	190		ug/kg	200		93.1	60-130			
Surrogate: Anthracene-d10	180		"	200		91.0	60-130			
Surrogate: Pyrene-d10	200		"	200		97.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.6	60-130			

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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 B5J2002 - EPA 3550B

Prepared: 10/20/2025 Analyzed: 10/20/2025

Blank (B5J2002-BLK1)

Diesel (C10-C28)	ND	25.0	mg/kg wet							U
Residual Range Organics (C28-C36)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		93.8	50-150			

LCS (B5J2002-BS1)

Prepared: 10/20/2025 Analyzed: 10/20/2025

Diesel (C10-C28)	1070	50.1	mg/kg wet	1000		107	70-130			
Residual Range Organics (C28-C36)	1140	200	"	1000		114	70-130			
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			

Matrix Spike (B5J2002-MS1)

Source: E5J0435-01

Prepared: 10/20/2025 Analyzed: 10/20/2025

Diesel (C10-C28)	1290	60.4	mg/kg dry	1210	ND	107	70-130			
Residual Range Organics (C28-C36)	1370	241	"	1210	ND	114	70-130			
Surrogate: o-Terphenyl	61		"	60.1		101	50-150			

Matrix Spike Dup (B5J2002-MSD1)

Source: E5J0435-01

Prepared: 10/20/2025 Analyzed: 10/20/2025

Diesel (C10-C28)	1340	61.8	mg/kg dry	1240	ND	108	70-130	3.26	35	
Residual Range Organics (C28-C36)	1400	247	"	1240	ND	113	70-130	1.85	35	
Surrogate: o-Terphenyl	68		"	61.5		111	50-150			

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 Project: KMG - Cook 2,21,22,24,31,32-9 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 B5J2011 - EPA 3050B

Blank (B5J2011-BLK1)

Prepared: 10/20/2025 Analyzed: 10/21/2025

Arsenic	ND	0.218	mg/kg wet							U
Barium	ND	61.5	"							U
Cadmium	ND	0.285	"							U
Copper	ND	34.5	"							U
Lead	ND	10.5	"							U
Nickel	ND	19.5	"							U
Selenium	ND	0.184	"							U
Silver	ND	0.600	"							U
Zinc	ND	278	"							U

LCS (B5J2011-BS1)

Prepared: 10/20/2025 Analyzed: 10/21/2025

Arsenic	5.22	0.218	mg/kg wet	5.00		104	80-120			
Barium	539	61.5	"	500		108	80-120			
Cadmium	5.50	0.285	"	5.00		110	80-120			
Copper	54.1	34.5	"	50.0		108	80-120			
Lead	5.46	10.5	"	5.00		109	80-120			U
Nickel	5.43	19.5	"	5.00		109	80-120			U
Selenium	5.23	0.184	"	5.00		105	80-120			
Silver	5.63	0.600	"	5.00		113	80-120			
Zinc	52.9	278	"	50.0		106	80-120			U

Matrix Spike (B5J2011-MS1)

Source: E5J0438-01

Prepared: 10/20/2025 Analyzed: 10/21/2025

Arsenic	8.36	0.210	mg/kg dry	4.81	2.60	120	75-125			
Barium	859	59.2	"	481	192	139	75-125			QM-07
Cadmium	5.65	0.274	"	4.81	0.0933	116	75-125			
Copper	62.4	33.2	"	48.1	6.20	117	75-125			
Lead	11.9	10.1	"	4.81	6.10	121	75-125			

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 Project: KMG - Cook 2,21,22,24,31,32-9 WH

Metals by EPA 6000/7000 Series Methods - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5J2011 - EPA 3050B

Matrix Spike (B5J2011-MS1)

Source: E5J0438-01

Prepared: 10/20/2025 Analyzed: 10/21/2025

Nickel	13.1	18.8	mg/kg dry	4.81	6.10	146	75-125			QM-07, U
Selenium	5.40	0.178	"	4.81	0.0986	110	75-125			
Silver	5.51	0.577	"	4.81	0.0161	114	75-125			
Zinc	84.6	267	"	48.1	24.9	124	75-125			U

Matrix Spike Dup (B5J2011-MSD1)

Source: E5J0438-01

Prepared: 10/20/2025 Analyzed: 10/21/2025

Arsenic	9.35	0.232	mg/kg dry	5.31	2.60	127	75-125	11.2	20	QM-07
Barium	901	65.4	"	531	192	134	75-125	4.79	20	QM-07
Cadmium	6.21	0.303	"	5.31	0.0933	115	75-125	9.38	20	
Copper	68.8	36.7	"	53.1	6.20	118	75-125	9.77	20	
Lead	12.6	11.2	"	5.31	6.10	122	75-125	5.05	20	
Nickel	14.5	20.7	"	5.31	6.10	157	75-125	9.63	20	QM-07, U
Selenium	5.85	0.196	"	5.31	0.0986	108	75-125	7.88	20	
Silver	6.12	0.638	"	5.31	0.0161	115	75-125	10.5	20	
Zinc	92.5	295	"	53.1	24.9	127	75-125	8.97	20	QM-07, U

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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 B5J2005 - Saturated Paste pH/EC

Blank (B5J2005-BLK1)

Prepared: 10/20/2025 Analyzed: 10/21/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm U

Duplicate (B5J2005-DUP1)

Source: E5J0440-01

Prepared: 10/20/2025 Analyzed: 10/21/2025

Specific Conductance (EC) 0.974 0.00500 mmhos/cm 1.28 27.0 25 QR-DUP
 pH 7.75 pH Units 7.20 7.36 25

Batch B5J2031 - Saturated Paste pH/EC

Blank (B5J2031-BLK1)

Prepared: 10/20/2025 Analyzed: 10/21/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm U

Duplicate (B5J2031-DUP1)

Source: E5J0443-12

Prepared: 10/20/2025 Analyzed: 10/21/2025

pH 8.02 pH Units 8.02 0.00 25
 Specific Conductance (EC) 0.213 0.00500 mmhos/cm 0.203 4.76 25

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5J2036 - EPA 5030 (soil)

Prepared: 10/20/2025 Analyzed: 10/20/2025

Blank (B5J2036-BLK1)

1,2,4-Trimethylbenzene	ND	0.002	mg/kg wet							U
1,3,5-Trimethylbenzene	ND	0.002	"							U
Benzene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U

Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	106		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	100		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	103		70-130			

LCS (B5J2036-BS1)

Prepared: 10/20/2025 Analyzed: 10/20/2025

1,2,4-Trimethylbenzene	0.104	0.002	mg/kg wet	0.100	104		70-130			
1,3,5-Trimethylbenzene	0.107	0.002	"	0.100	107		70-130			
Benzene	0.098	0.002	"	0.100	97.7		70-130			
Ethylbenzene	0.107	0.002	"	0.100	107		70-130			
Naphthalene	0.100	0.004	"	0.100	100		70-130			
Toluene	0.105	0.002	"	0.100	105		70-130			
o-Xylene	0.103	0.002	"	0.100	103		70-130			
m,p-Xylene	0.211	0.004	"	0.200	105		70-130			

Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	105		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	102		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	105		70-130			

Matrix Spike (B5J2036-MS1)

Source: E5J0443-01

Prepared: 10/20/2025 Analyzed: 10/20/2025

1,2,4-Trimethylbenzene	0.116	0.002	mg/kg dry	0.118	ND	97.9	70-130			
1,3,5-Trimethylbenzene	0.119	0.002	"	0.118	ND	100	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5J2036 - EPA 5030 (soil)

Matrix Spike (B5J2036-MS1)

Source: E5J0443-01

Prepared: 10/20/2025 Analyzed: 10/20/2025

Benzene	0.106	0.002	mg/kg dry	0.118	ND	89.9	70-130			
Ethylbenzene	0.119	0.002	"	0.118	ND	101	70-130			
Naphthalene	0.115	0.005	"	0.118	ND	97.2	70-130			
Toluene	0.115	0.002	"	0.118	ND	96.7	70-130			
o-Xylene	0.115	0.002	"	0.118	ND	96.8	70-130			
m,p-Xylene	0.234	0.005	"	0.237	ND	98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.16		"	0.148		108	70-130			
Surrogate: Toluene-d8	0.15		"	0.148		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.148		104	70-130			

Matrix Spike Dup (B5J2036-MSD1)

Source: E5J0443-01

Prepared: 10/20/2025 Analyzed: 10/20/2025

1,2,4-Trimethylbenzene	0.108	0.002	mg/kg dry	0.118	ND	91.1	70-130	7.22	20	
1,3,5-Trimethylbenzene	0.110	0.002	"	0.118	ND	92.7	70-130	7.83	20	
Benzene	0.102	0.002	"	0.118	ND	86.4	70-130	3.92	20	
Ethylbenzene	0.111	0.002	"	0.118	ND	93.3	70-130	7.41	20	
Naphthalene	0.111	0.005	"	0.118	ND	93.4	70-130	3.99	20	
Toluene	0.109	0.002	"	0.118	ND	92.2	70-130	4.85	20	
o-Xylene	0.108	0.002	"	0.118	ND	91.0	70-130	6.09	20	
m,p-Xylene	0.219	0.005	"	0.237	ND	92.3	70-130	6.60	20	
Surrogate: 1,2-Dichloroethane-d4	0.16		"	0.148		110	70-130			
Surrogate: Toluene-d8	0.15		"	0.148		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.148		104	70-130			

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Project Number: 09A14171118
Project: KMG - Cook 2,21,22,24,31,32-9 WH

Notes and Definitions

- U Sample is Non-Detect.
- QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- J Sample result was found between MDL and RL
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

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