



Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

June 03, 2025

Project Name - KMG-Wardell H18-16J1

Project Number - [none]

Attached are your analytical results for KMG-Wardell H18-16J1 received by Origins Laboratory May 15, 2025. This project is associated with Origins project number E5E0522-01.

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





Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG-Wardell H18-16JI

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@6'	E5E0522-01	Soil	May 15, 2025 11:35	05/15/2025 15:07
WH-RIS@4'	E5E0522-02	Soil	May 15, 2025 11:42	05/15/2025 15:07
WH-BG01@3'	E5E0522-03	Soil	May 15, 2025 12:26	05/15/2025 15:07
WH-BG01@6'	E5E0522-04	Soil	May 15, 2025 12:28	05/15/2025 15:07
WH-BG02@3'	E5E0522-05	Soil	May 15, 2025 12:34	05/15/2025 15:07
WH-BG02@6'	E5E0522-06	Soil	May 15, 2025 12:36	05/15/2025 15:07
WH-BG03@3'	E5E0522-07	Soil	May 15, 2025 12:40	05/15/2025 15:07
WH-BG03@6'	E5E0522-08	Soil	May 15, 2025 12:42	05/15/2025 15:07
WH-BG04@3'	E5E0522-09	Soil	May 15, 2025 12:46	05/15/2025 15:07
WH-BG04@6'	E5E0522-10	Soil	May 15, 2025 12:48	05/15/2025 15:07
WH-BG05@3'	E5E0522-11	Soil	May 15, 2025 12:56	05/15/2025 15:07
WH-BG05@6'	E5E0522-12	Soil	May 15, 2025 12:58	05/15/2025 15:07

Origins Laboratory

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ORIGINS LABORATORY

Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG-Wardell H18-16J1

ORIGINS
LABORATORY

E5E0512

Page 1 of 2

Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis					Comments										
						Full Table	V	H	A	R		S	D	Metals							
Wt-B0106	5/15/25	11:35	3	WUP	X																
Wt-B5024		11:42	1			X															
Wt-B6019		12:26	2			X	X	X	X												
Wt-B6016		12:28	1			X															
Wt-B6023		12:34	1			X															
Wt-B6020		12:36	1			X															
Wt-B6038		12:40	1			X															
Wt-B6036		12:42	1			X															
Wt-B6043		12:46	1			X															
Wt-B6046		12:48	1			X															

Client: Eagle Environmental
Address: 8000 W 44th Ave
Project Manager: D Coloccia
Key: W=Water
SV=Surface Water
WU=Waste Water
L=Liquid

Telephone Number: 303-433-0424
Collected By: CB
Invoice Billing Info: Initial (SW)


Email Address: dcoloccia@eagle-environment.com
Project Number: Wardell H18-16J1
Project Name: Wardell H18-16J1
Project Manager: Coloccia

SS=Sil | SO=Solid (soil) | AS=Air | Le=Leach | WUP=Unknown | HCl= Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

Refrigerated By: NA
Date: 5/15/25
Time: 15:07
Received By: NLM
Date: 05/15/25
Time: 15:07

Temp Received: 27°C
Received on ice? Yes No

Turnaround Time
 48 Hr 72
 SAME DAY 24 Hr

Origins Laboratory


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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: KMG-Wardell H18-16J1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: ESE0522

Client: Eagle Environmental

Client Project ID: Wardell H18-16J1

Checklist Completed by: NB/NB

Shipped Via: HD

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

Date/time completed: 5/15/25

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 2.7 °C (Describe)

Thermometer ID: T007

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"/>			
Is there ice present (document if blue ice is used)	<input checked="" 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"/>		
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"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" 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"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subsampled analyses in order to insure sample integrity) (pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with Na ₂ O ₂ +NaOH, ZnAc+NaOH)			<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.

Reviewed by (Project Manager)

05119 125
Date/Time Reviewed

Origins Laboratory

EHO

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16JI

WH-B01@6'

5/15/2025 11:35:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0522-01 (Soil)									
GEL Laboratories, LLC									
Total Metals 7196A									
Hexavalent Chromium	ND	0.161	0.402	mg/kg dry	1	2801447	05/22/2025	05/22/2025	U
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.123		0.0996	mg/L	1	B5E1619	05/16/2025	05/19/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E1639	05/16/2025	05/16/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua
Surrogate: o-Terphenyl	75.4 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E1620	05/16/2025	05/19/2025	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua

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Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16J1

WH-B01@6'

5/15/2025 11:35:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0522-01 (Soil)
 Origins Laboratory**

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5E1620	05/16/2025	05/19/2025	Ua
Surrogate: 1,2-Dichloroethane-d4	91.0 %			70-130		"	"	"	
Surrogate: Toluene-d8	99.7 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	97.2 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.574		0.499	meq/L	10	[CALC]	05/21/2025	05/23/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.72		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E1645	05/16/2025	05/17/2025	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua

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WH-B01@6'

5/15/2025 11:35:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0522-01 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Chrysene	ND		0.020	mg/kg	1	B5E1645	05/16/2025	05/17/2025	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua
Surrogate: Fluorene-d10	100 %			60-130		"	"	"	
Surrogate: Anthracene-d10	101 %			60-130		"	"	"	
Surrogate: Pyrene-d10	99.3 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.4 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	9.44			pH Units	1	B5E2157	05/21/2025	05/23/2025	
SAR by 20B Saturated Paste									
SAR	2.79		0.0100	SAR	1	B5E2155	05/21/2025	05/23/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.340		0.00500	mmhos/cm	1	B5E2157	05/21/2025	05/23/2025	

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WH-B01@6'

5/15/2025 11:35:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0522-01 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	2.68		0.281	mg/kg	10	B5E1641	05/16/2025	05/19/2025	
Barium	92.2		79.5	"	"	"	"	"	
Cadmium	ND		0.368	"	"	"	"	"	
Copper	ND		44.6	"	"	"	"	"	
Lead	ND		13.6	"	"	"	"	"	
Nickel	ND		25.2	"	"	"	"	"	
Selenium	ND		0.252	"	"	"	"	"	
Silver	ND		0.775	"	"	"	"	"	
Zinc	ND		359	"	"	"	"	"	

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16JI

WH-RIS@4'

5/15/2025 11:42:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0522-02 (Soil)									
GEL Laboratories, LLC									
Total Metals 7196A									
Hexavalent Chromium	ND	0.168	0.421	mg/kg dry	1	2801447	05/22/2025	05/22/2025	U
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	ND		0.0997	mg/L	1	B5E1619	05/16/2025	05/19/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E1639	05/16/2025	05/16/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua
Surrogate: o-Terphenyl	84.6 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E1620	05/16/2025	05/19/2025	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua

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Dan Coloccia
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WH-RIS@4'

5/15/2025 11:42:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0522-02 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5E1620	05/16/2025	05/19/2025	Ua
Surrogate: 1,2-Dichloroethane-d4	91.6 %			70-130		"	"	"	
Surrogate: Toluene-d8	100 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	98.5 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.14		0.499	meq/L	10	[CALC]	05/21/2025	05/23/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	0.003		0.002	mg/kg	1	B5E1645	05/16/2025	05/17/2025	
2-Methylnaphthalene	0.006		0.002	"	"	"	"	"	
Acenaphthene	0.036		0.020	"	"	"	"	"	
Anthracene	0.093		0.020	"	"	"	"	"	
Benzo (a) anthracene	0.193		0.005	"	"	"	"	"	
Benzo (a) pyrene	0.128		0.020	"	"	"	"	"	
Benzo (b) fluoranthene	0.133		0.020	"	"	"	"	"	
Benzo (k) fluoranthene	0.066		0.020	"	"	"	"	"	
Chrysene	0.173		0.020	"	"	"	"	"	
Dibenz (a,h) anthracene	0.022		0.020	"	"	"	"	"	

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Dan Coloccia
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 Project: KMG-Wardell H18-16J1

WH-RIS@4'

5/15/2025 11:42:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0522-02 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Fluoranthene	0.594		0.020	mg/kg	1	B5E1645	05/16/2025	05/17/2025	
Fluorene	0.053		0.020	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	0.084		0.020	"	"	"	"	"	"
Naphthalene	0.013		0.002	"	"	"	"	"	"
Pyrene	0.466		0.020	"	"	"	"	"	"

Surrogate: Fluorene-d10	100 %			60-130		"	"	"	
Surrogate: Anthracene-d10	99.5 %			60-130		"	"	"	
Surrogate: Pyrene-d10	100 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.8 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.31			pH Units	1	B5E2157	05/21/2025	05/23/2025	
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SAR by 20B Saturated Paste

SAR	0.224		0.0100	SAR	1	B5E2155	05/21/2025	05/23/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.197		0.00500	mmhos/cm	1	B5E2157	05/21/2025	05/23/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.13		0.246	mg/kg	10	B5E1641	05/16/2025	05/19/2025	
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 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16JI

WH-RIS@4'

5/15/2025 11:42:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0522-02 (Soil)
 Origins Laboratory

Table 915 metals by EPA 6020B

Barium	70.8		69.4	mg/kg	10	B5E1641	05/16/2025	05/19/2025	
Cadmium	ND		0.322	"	"	"	"	"	"
Copper	ND		39.0	"	"	"	"	"	"
Lead	ND		11.9	"	"	"	"	"	"
Nickel	ND		22.0	"	"	"	"	"	"
Selenium	ND		0.220	"	"	"	"	"	"
Silver	ND		0.677	"	"	"	"	"	"
Zinc	ND		313	"	"	"	"	"	"

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16JI

WH-BG01@3'

5/15/2025 12:26:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0522-03 (Soil)									
GEL Laboratories, LLC									
Total Metals 7196A									
Hexavalent Chromium	ND	0.148	0.371	mg/kg dry	1	2801447	05/22/2025	05/22/2025	U
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	ND		0.100	mg/L	1	B5E1619	05/16/2025	05/19/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	ND		0.499	meq/L	10	[CALC]	05/21/2025	05/23/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	7.48			pH Units	1	B5E2157	05/21/2025	05/23/2025	
SAR by 20B Saturated Paste									
SAR	0.623		0.0100	SAR	1	B5E2155	05/21/2025	05/23/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.0589		0.00500	mmhos/cm	1	B5E2157	05/21/2025	05/23/2025	

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 8000 W 44th Ave
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Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16JI

WH-BG01@3'

5/15/2025 12:26:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0522-03 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	3.59		0.288	mg/kg	10	B5E1641	05/16/2025	05/19/2025	
Barium	105		81.3	"	"	"	"	"	
Cadmium	ND		0.377	"	"	"	"	"	
Copper	ND		45.6	"	"	"	"	"	
Lead	ND		13.9	"	"	"	"	"	
Nickel	ND		25.8	"	"	"	"	"	
Selenium	ND		0.258	"	"	"	"	"	
Silver	ND		0.793	"	"	"	"	"	
Zinc	ND		367	"	"	"	"	"	

Origins Laboratory

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16JI

WH-BG01@6'

5/15/2025 12:28:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0522-04 (Soil)									
GEL Laboratories, LLC									
Total Metals 7196A									
Hexavalent Chromium	ND	0.141	0.352	mg/kg dry	1	2801447	05/22/2025	05/22/2025	U
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	ND		0.100	mg/L	1	B5E1619	05/16/2025	05/19/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	1.14		0.499	meq/L	10	[CALC]	05/21/2025	05/23/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	8.36			pH Units	1	B5E2157	05/21/2025	05/23/2025	
SAR by 20B Saturated Paste									
SAR	0.135		0.0100	SAR	1	B5E2155	05/21/2025	05/23/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.217		0.00500	mmhos/cm	1	B5E2157	05/21/2025	05/23/2025	

Origins Laboratory

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16J1

WH-BG01@6'
5/15/2025 12:28:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0522-04 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	1.77		0.259	mg/kg	10	B5E1641	05/16/2025	05/19/2025	
Barium	ND		73.1	"	"	"	"	"	"
Cadmium	ND		0.339	"	"	"	"	"	"
Copper	ND		41.0	"	"	"	"	"	"
Lead	ND		12.5	"	"	"	"	"	"
Nickel	ND		23.2	"	"	"	"	"	"
Selenium	ND		0.232	"	"	"	"	"	"
Silver	ND		0.714	"	"	"	"	"	"
Zinc	ND		330	"	"	"	"	"	"

Origins Laboratory

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16JI

WH-BG02@3'

5/15/2025 12:34:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0522-05 (Soil)									
GEL Laboratories, LLC									
Total Metals 7196A									
Hexavalent Chromium	ND	0.132	0.330	mg/kg dry	1	2801447	05/22/2025	05/22/2025	U
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	ND		0.0998	mg/L	1	B5E1619	05/16/2025	05/19/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	1.74		0.499	meq/L	10	[CALC]	05/21/2025	05/23/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	8.30			pH Units	1	B5E2157	05/21/2025	05/23/2025	
SAR by 20B Saturated Paste									
SAR	0.171		0.0100	SAR	1	B5E2155	05/21/2025	05/23/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.295		0.00500	mmhos/cm	1	B5E2157	05/21/2025	05/23/2025	

Origins Laboratory

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16J1

WH-BG02@3'

5/15/2025 12:34:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0522-05 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	3.24		0.243	mg/kg	10	B5E1641	05/16/2025	05/19/2025	
Barium	119		68.7	"	"	"	"	"	"
Cadmium	ND		0.318	"	"	"	"	"	"
Copper	ND		38.5	"	"	"	"	"	"
Lead	ND		11.7	"	"	"	"	"	"
Nickel	ND		21.8	"	"	"	"	"	"
Selenium	ND		0.218	"	"	"	"	"	"
Silver	ND		0.670	"	"	"	"	"	"
Zinc	ND		310	"	"	"	"	"	"

Origins Laboratory

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Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16JI

WH-BG02@6'

5/15/2025 12:36:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0522-06 (Soil)									
GEL Laboratories, LLC									
Total Metals 7196A									
Hexavalent Chromium	ND	0.147	0.368	mg/kg dry	1	2801447	05/22/2025	05/22/2025	U
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	ND		0.100	mg/L	1	B5E1619	05/16/2025	05/19/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	1.80		0.499	meq/L	10	[CALC]	05/21/2025	05/23/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	8.33			pH Units	1	B5E2157	05/21/2025	05/23/2025	
SAR by 20B Saturated Paste									
SAR	0.294		0.0100	SAR	1	B5E2155	05/21/2025	05/23/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.325		0.00500	mmhos/cm	1	B5E2157	05/21/2025	05/23/2025	

Origins Laboratory

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Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16J1

WH-BG02@6'

5/15/2025 12:36:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0522-06 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Arsenic	5.39		0.283	mg/kg	10	B5E1641	05/16/2025	05/19/2025	
Barium	126		80.2	"	"	"	"	"	
Cadmium	ND		0.371	"	"	"	"	"	
Copper	ND		45.0	"	"	"	"	"	
Lead	ND		13.7	"	"	"	"	"	
Nickel	ND		25.4	"	"	"	"	"	
Selenium	ND		0.254	"	"	"	"	"	
Silver	ND		0.782	"	"	"	"	"	
Zinc	ND		362	"	"	"	"	"	

Origins Laboratory

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Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16J1

WH-BG03@3'
5/15/2025 12:40:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0522-07 (Soil)									
GEL Laboratories, LLC									
Total Metals 7196A									
Hexavalent Chromium	ND	0.117	0.294	mg/kg dry	1	2801447	05/22/2025	05/22/2025	U
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	ND		0.100	mg/L	1	B5E1619	05/16/2025	05/19/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	2.79		0.499	meq/L	10	[CALC]	05/21/2025	05/23/2025	
Magnesium	0.839		0.823	"	"	"	"	"	
Sodium	0.477		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	8.19			pH Units	1	B5E2157	05/21/2025	05/23/2025	
SAR by 20B Saturated Paste									
SAR	0.354		0.0100	SAR	1	B5E2155	05/21/2025	05/23/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.414		0.00500	mmhos/cm	1	B5E2157	05/21/2025	05/23/2025	

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16J1

WH-BG03@3'

5/15/2025 12:40:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0522-07 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.32		0.268	mg/kg	10	B5E1641	05/16/2025	05/19/2025	
Barium	86.3		75.8	"	"	"	"	"	
Cadmium	ND		0.351	"	"	"	"	"	
Copper	ND		42.5	"	"	"	"	"	
Lead	ND		12.9	"	"	"	"	"	
Nickel	ND		24.0	"	"	"	"	"	
Selenium	ND		0.240	"	"	"	"	"	
Silver	ND		0.739	"	"	"	"	"	
Zinc	ND		342	"	"	"	"	"	

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Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16JI

WH-BG03@6'

5/15/2025 12:42:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0522-08 (Soil)									
GEL Laboratories, LLC									
Total Metals 7196A									
Hexavalent Chromium	ND	0.118	0.295	mg/kg dry	1	2801447	05/22/2025	05/22/2025	U
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	ND		0.0999	mg/L	1	B5E1619	05/16/2025	05/19/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	3.43		0.499	meq/L	10	[CALC]	05/21/2025	05/23/2025	
Magnesium	1.25		0.823	"	"	"	"	"	
Sodium	1.62		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	8.27			pH Units	1	B5E2157	05/21/2025	05/23/2025	
SAR by 20B Saturated Paste									
SAR	1.06		0.0100	SAR	1	B5E2155	05/21/2025	05/23/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.648		0.00500	mmhos/cm	1	B5E2157	05/21/2025	05/23/2025	

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16JI

WH-BG03@6'

5/15/2025 12:42:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0522-08 (Soil)
 Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.25		0.287	mg/kg	10	B5E1641	05/16/2025	05/19/2025	
Barium	ND		81.2	"	"	"	"	"	"
Cadmium	ND		0.376	"	"	"	"	"	"
Copper	ND		45.5	"	"	"	"	"	"
Lead	ND		13.9	"	"	"	"	"	"
Nickel	ND		25.7	"	"	"	"	"	"
Selenium	ND		0.257	"	"	"	"	"	"
Silver	ND		0.792	"	"	"	"	"	"
Zinc	ND		366	"	"	"	"	"	"

Origins Laboratory

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16JI

WH-BG04@3'

5/15/2025 12:46:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0522-09 (Soil)									
GEL Laboratories, LLC									
Total Metals 7196A									
Hexavalent Chromium	ND	0.150	0.375	mg/kg dry	1	2801447	05/22/2025	05/22/2025	U
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.117		0.0996	mg/L	1	B5E1619	05/16/2025	05/19/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	1.01		0.499	meq/L	10	[CALC]	05/21/2025	05/23/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	8.34			pH Units	1	B5E2157	05/21/2025	05/23/2025	
SAR by 20B Saturated Paste									
SAR	0.348		0.0100	SAR	1	B5E2155	05/21/2025	05/23/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.181		0.00500	mmhos/cm	1	B5E2157	05/21/2025	05/23/2025	

Origins Laboratory

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16J1

WH-BG04@3'

5/15/2025 12:46:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0522-09 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	4.15		0.265	mg/kg	10	B5E1641	05/16/2025	05/19/2025	
Barium	101		74.8	"	"	"	"	"	
Cadmium	ND		0.347	"	"	"	"	"	
Copper	ND		42.0	"	"	"	"	"	
Lead	ND		12.8	"	"	"	"	"	
Nickel	ND		23.7	"	"	"	"	"	
Selenium	ND		0.237	"	"	"	"	"	
Silver	ND		0.730	"	"	"	"	"	
Zinc	ND		338	"	"	"	"	"	

Origins Laboratory

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16JI

WH-BG04@6'
5/15/2025 12:48:00PM

E5E0522-10 (Soil)
GEL Laboratories, LLC

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Total Metals 7196A									
Hexavalent Chromium	ND	0.151	0.378	mg/kg dry	1	2801447	05/22/2025	05/22/2025	U
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.222		0.100	mg/L	1	B5E1619	05/16/2025	05/19/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	1.05		0.499	meq/L	10	[CALC]	05/21/2025	05/23/2025	
Magnesium	0.982		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	8.41			pH Units	1	B5E2157	05/21/2025	05/23/2025	
SAR by 20B Saturated Paste									
SAR	0.212		0.0100	SAR	1	B5E2155	05/21/2025	05/23/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.243		0.00500	mmhos/cm	1	B5E2157	05/21/2025	05/23/2025	

Origins Laboratory

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16J1

WH-BG04@6'

5/15/2025 12:48:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0522-10 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	4.05		0.260	mg/kg	10	B5E1641	05/16/2025	05/19/2025	
Barium	135		73.5	"	"	"	"	"	
Cadmium	ND		0.341	"	"	"	"	"	
Copper	ND		41.2	"	"	"	"	"	
Lead	ND		12.5	"	"	"	"	"	
Nickel	ND		23.3	"	"	"	"	"	
Selenium	ND		0.233	"	"	"	"	"	
Silver	ND		0.717	"	"	"	"	"	
Zinc	ND		332	"	"	"	"	"	

Origins Laboratory

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Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16JI

WH-BG05@3'

5/15/2025 12:56:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0522-11 (Soil)
GEL Laboratories, LLC

Total Metals 7196A

Hexavalent Chromium	ND	0.142	0.355	mg/kg dry	1	2801447	05/22/2025	05/22/2025	U
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Origins Laboratory

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B5E1619	05/16/2025	05/19/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	1.18		0.499	meq/L	10	[CALC]	05/21/2025	05/23/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.37			pH Units	1	B5E2157	05/21/2025	05/23/2025	
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SAR by 20B Saturated Paste

SAR	0.364		0.0100	SAR	1	B5E2155	05/21/2025	05/23/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.217		0.00500	mmhos/cm	1	B5E2157	05/21/2025	05/23/2025	
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Origins Laboratory

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16JI

WH-BG05@3'

5/15/2025 12:56:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0522-11 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Arsenic	4.43		0.251	mg/kg	10	B5E1641	05/16/2025	05/19/2025	
Barium	117		71.1	"	"	"	"	"	
Cadmium	ND		0.329	"	"	"	"	"	
Copper	ND		39.9	"	"	"	"	"	
Lead	ND		12.1	"	"	"	"	"	
Nickel	ND		22.5	"	"	"	"	"	
Selenium	ND		0.225	"	"	"	"	"	
Silver	ND		0.694	"	"	"	"	"	
Zinc	ND		321	"	"	"	"	"	

Origins Laboratory

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16JI

WH-BG05@6'

5/15/2025 12:58:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0522-12 (Soil)
 GEL Laboratories, LLC**

Total Metals 7196A

Hexavalent Chromium	ND	0.159	0.396	mg/kg dry	1	2801447	05/22/2025	05/22/2025	U
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Origins Laboratory

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B5E1619	05/16/2025	05/19/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	0.692		0.499	meq/L	10	[CALC]	05/21/2025	05/23/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.40			pH Units	1	B5E2157	05/21/2025	05/23/2025	
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SAR by 20B Saturated Paste

SAR	0.181		0.0100	SAR	1	B5E2155	05/21/2025	05/23/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.130		0.00500	mmhos/cm	1	B5E2157	05/21/2025	05/23/2025	
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Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16J1

WH-BG05@6'

5/15/2025 12:58:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0522-12 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Arsenic	1.74		0.276	mg/kg	10	B5E1641	05/16/2025	05/19/2025	
Barium	ND		78.0	"	"	"	"	"	"
Cadmium	ND		0.362	"	"	"	"	"	"
Copper	ND		43.8	"	"	"	"	"	"
Lead	ND		13.3	"	"	"	"	"	"
Nickel	ND		24.7	"	"	"	"	"	"
Selenium	ND		0.247	"	"	"	"	"	"
Silver	ND		0.761	"	"	"	"	"	"
Zinc	ND		352	"	"	"	"	"	"

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Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16JI

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 B5E1619 - DTPA Sorbitol Preparation

Blank (B5E1619-BLK1)

Prepared: 05/16/2025 Analyzed: 05/19/2025

Boron ND 0.100 mg/L

Duplicate (B5E1619-DUP1)

Source: E5E0520-02

Prepared: 05/16/2025 Analyzed: 05/19/2025

Boron 0.333 0.0999 mg/L 0.326 2.11 50

Batch B5E2155 - Saturated Paste Metals

Blank (B5E2155-BLK1)

Prepared: 05/21/2025 Analyzed: 05/23/2025

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B5E2155-DUP1)

Source: E5E0522-01

Prepared: 05/21/2025 Analyzed: 05/23/2025

Calcium PPM 13.3 10.0 mg/L 11.5 14.2 50

SAR ND 0.0100 SAR 2.79 200

Magnesium PPM 2.46 10.0 mg/L 2.27 8.03 50

Sodium PPM 42.0 10.0 " 39.6 6.06 50

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Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16J1

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 B5E1645 - EPA 3580

Blank (B5E1645-BLK1)

Prepared: 05/16/2025 Analyzed: 05/16/2025

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

Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		98.2	60-130			
Surrogate: Pyrene-d10	200		"	200		99.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.2	60-130			

LCS (B5E1645-BS1)

Prepared: 05/16/2025 Analyzed: 05/16/2025

1-Methylnaphthalene	0.196	0.002	mg/kg	0.200		98.2	70-130			
2-Methylnaphthalene	0.197	0.002	"	0.200		98.5	70-130			
Acenaphthene	0.200	0.020	"	0.200		100	70-130			
Anthracene	0.188	0.020	"	0.200		94.1	70-130			

Origins Laboratory

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Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16JI

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 B5E1645 - EPA 3580

LCS (B5E1645-BS1)

Prepared: 05/16/2025 Analyzed: 05/16/2025

Benzo (a) anthracene	0.196	0.005	mg/kg	0.200		97.9	70-130			
Benzo (a) pyrene	0.188	0.020	"	0.200		94.2	70-130			
Benzo (b) fluoranthene	0.189	0.020	"	0.200		94.6	70-130			
Benzo (g,h,i) perylene	0.180	0.020	"	0.200		89.8	70-130			
Benzo (k) fluoranthene	0.175	0.020	"	0.200		87.4	70-130			
Chrysene	0.186	0.020	"	0.200		92.8	70-130			
Dibenz (a,h) anthracene	0.214	0.020	"	0.200		107	70-130			
Fluoranthene	0.197	0.020	"	0.200		98.4	70-130			
Fluorene	0.198	0.020	"	0.200		98.9	70-130			
Indeno (1,2,3-cd) pyrene	0.197	0.020	"	0.200		98.3	70-130			
Naphthalene	0.196	0.002	"	0.200		98.0	70-130			
Phenanthrene	0.195	0.020	"	0.200		97.3	70-130			
Pyrene	0.194	0.020	"	0.200		97.2	70-130			

Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		97.2	60-130			
Surrogate: Pyrene-d10	200		"	200		99.6	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.1	60-130			

Matrix Spike (B5E1645-MS1)

Source: E5E0503-01

Prepared: 05/16/2025 Analyzed: 05/16/2025

1-Methylnaphthalene	0.209	0.002	mg/kg	0.200	ND	105	70-130			
2-Methylnaphthalene	0.208	0.002	"	0.200	ND	104	70-130			
Acenaphthene	0.211	0.020	"	0.200	ND	105	70-130			
Anthracene	0.201	0.020	"	0.200	ND	101	70-130			
Benzo (a) anthracene	0.207	0.005	"	0.200	ND	104	70-130			
Benzo (a) pyrene	0.196	0.020	"	0.200	ND	98.2	70-130			
Benzo (b) fluoranthene	0.198	0.020	"	0.200	ND	98.8	70-130			
Benzo (g,h,i) perylene	0.189	0.020	"	0.200	ND	94.7	70-130			

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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 B5E1645 - EPA 3580

Matrix Spike (B5E1645-MS1)

Source: E5E0503-01

Prepared: 05/16/2025 Analyzed: 05/16/2025

Benzo (k) fluoranthene	0.206	0.020	mg/kg	0.200	ND	103	70-130			
Chrysene	0.196	0.020	"	0.200	0.0003	97.8	70-130			
Dibenz (a,h) anthracene	0.225	0.020	"	0.200	ND	112	70-130			
Fluoranthene	0.209	0.020	"	0.200	ND	104	70-130			
Fluorene	0.209	0.020	"	0.200	ND	105	70-130			
Indeno (1,2,3-cd) pyrene	0.209	0.020	"	0.200	ND	105	70-130			
Naphthalene	0.207	0.002	"	0.200	ND	104	70-130			
Phenanthrene	0.206	0.020	"	0.200	ND	103	70-130			
Pyrene	0.205	0.020	"	0.200	ND	102	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		99.0	60-130			
Surrogate: Pyrene-d10	200		"	200		99.5	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.9	60-130			

Matrix Spike Dup (B5E1645-MSD1)

Source: E5E0503-01

Prepared: 05/16/2025 Analyzed: 05/16/2025

1-Methylnaphthalene	0.208	0.002	mg/kg	0.200	ND	104	70-130	0.767	20	
2-Methylnaphthalene	0.208	0.002	"	0.200	ND	104	70-130	0.284	20	
Acenaphthene	0.211	0.020	"	0.200	ND	105	70-130	0.0186	20	
Anthracene	0.204	0.020	"	0.200	ND	102	70-130	1.11	20	
Benzo (a) anthracene	0.207	0.005	"	0.200	ND	104	70-130	0.0767	20	
Benzo (a) pyrene	0.197	0.020	"	0.200	ND	98.6	70-130	0.380	20	
Benzo (b) fluoranthene	0.199	0.020	"	0.200	ND	99.3	70-130	0.492	20	
Benzo (g,h,i) perylene	0.184	0.020	"	0.200	ND	92.0	70-130	2.88	20	
Benzo (k) fluoranthene	0.186	0.020	"	0.200	ND	93.1	70-130	10.2	20	
Chrysene	0.195	0.020	"	0.200	0.0003	97.3	70-130	0.495	20	
Dibenz (a,h) anthracene	0.223	0.020	"	0.200	ND	111	70-130	0.819	20	
Fluoranthene	0.209	0.020	"	0.200	ND	105	70-130	0.216	20	

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Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16J1

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 B5E1645 - EPA 3580

Matrix Spike Dup (B5E1645-MSD1)

Source: E5E0503-01

Prepared: 05/16/2025 Analyzed: 05/16/2025

Fluorene	0.209	0.020	mg/kg	0.200	ND	105	70-130	0.107	20	
Indeno (1,2,3-cd) pyrene	0.208	0.020	"	0.200	ND	104	70-130	0.318	20	
Naphthalene	0.207	0.002	"	0.200	ND	103	70-130	0.282	20	
Phenanthrene	0.206	0.020	"	0.200	ND	103	70-130	0.00998	20	
Pyrene	0.205	0.020	"	0.200	ND	103	70-130	0.423	20	
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		98.5	60-130			
Surrogate: Pyrene-d10	200		"	200		99.7	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.1	60-130			

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Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16J1

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 B5E1639 - EPA 3550B										
Blank (B5E1639-BLK1)										
					Prepared: 05/16/2025 Analyzed: 05/16/2025					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	20		"	24.9		79.4	50-150			
LCS (B5E1639-BS1)										
					Prepared: 05/16/2025 Analyzed: 05/16/2025					
Diesel (C10-C28)	801	50.0	mg/kg	1000		80.1	70-130			
Residual Range Organics (C28-C40)	874	200	"	1000		87.4	70-130			
Surrogate: o-Terphenyl	46		"	49.8		93.4	50-150			
Matrix Spike (B5E1639-MS1)										
		Source: E5E0510-01			Prepared: 05/16/2025 Analyzed: 05/16/2025					
Diesel (C10-C28)	848	50.0	mg/kg	1000	ND	84.8	70-130			
Residual Range Organics (C28-C40)	930	200	"	1000	ND	93.0	70-130			
Surrogate: o-Terphenyl	45		"	49.8		90.4	50-150			
Matrix Spike Dup (B5E1639-MSD1)										
		Source: E5E0510-01			Prepared: 05/16/2025 Analyzed: 05/16/2025					
Diesel (C10-C28)	820	50.0	mg/kg	1000	ND	82.0	70-130	3.32	35	
Residual Range Organics (C28-C40)	906	200	"	1000	ND	90.6	70-130	2.62	35	
Surrogate: o-Terphenyl	45		"	49.8		90.2	50-150			

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 Project: KMG-Wardell H18-16J1

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 B5E1641 - EPA 3050B

Prepared: 05/16/2025 Analyzed: 05/19/2025

Blank (B5E1641-BLK1)

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 (B5E1641-BS1)

Prepared: 05/16/2025 Analyzed: 05/19/2025

Arsenic	5.23	0.290	mg/kg	5.00		105	80-120			
Barium	569	82.0	"	500		114	80-120			
Cadmium	5.28	0.380	"	5.00		106	80-120			
Copper	52.0	46.0	"	50.0		104	80-120			
Lead	5.50	14.0	"	5.00		110	80-120			
Nickel	5.14	26.0	"	5.00		103	80-120			
Selenium	5.22	0.260	"	5.00		104	80-120			
Silver	5.51	0.800	"	5.00		110	80-120			
Zinc	56.3	370	"	50.0		113	80-120			

Matrix Spike (B5E1641-MS1)

Source: E5E0517-01

Prepared: 05/16/2025 Analyzed: 05/19/2025

Arsenic	7.19	0.260	mg/kg	4.49	2.78	98.3	75-125			
Barium	578	73.6	"	449	51.9	117	75-125			
Cadmium	4.82	0.341	"	4.49	0.0557	106	75-125			
Copper	52.4	41.3	"	44.9	6.04	103	75-125			
Lead	10.5	12.6	"	4.49	5.47	113	75-125			

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Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16JI

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 B5E1641 - EPA 3050B

Matrix Spike (B5E1641-MS1)		Source: E5E0517-01			Prepared: 05/16/2025 Analyzed: 05/19/2025					
Nickel	12.1	23.3	mg/kg	4.49	7.38	105	75-125			
Selenium	4.59	0.233	"	4.49	0.0586	101	75-125			
Silver	4.96	0.718	"	4.49	0.0137	110	75-125			
Zinc	75.2	332	"	44.9	22.1	118	75-125			

Matrix Spike Dup (B5E1641-MSD1)		Source: E5E0517-01			Prepared: 05/16/2025 Analyzed: 05/19/2025					
Arsenic	7.21	0.267	mg/kg	4.61	2.78	96.2	75-125	0.361	20	
Barium	565	75.6	"	461	51.9	111	75-125	2.35	20	
Cadmium	4.84	0.350	"	4.61	0.0557	104	75-125	0.489	20	
Copper	52.1	42.4	"	46.1	6.04	99.9	75-125	0.489	20	
Lead	10.4	12.9	"	4.61	5.47	107	75-125	1.00	20	
Nickel	12.1	24.0	"	4.61	7.38	102	75-125	0.307	20	
Selenium	4.69	0.240	"	4.61	0.0586	100	75-125	2.12	20	
Silver	5.02	0.738	"	4.61	0.0137	109	75-125	1.22	20	
Zinc	73.3	341	"	46.1	22.1	111	75-125	2.58	20	

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Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16J1

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 B5E2157 - Saturated Paste pH/EC

Blank (B5E2157-BLK1)

Prepared: 05/21/2025 Analyzed: 05/23/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B5E2157-DUP1)

Source: E5E0522-01

Prepared: 05/21/2025 Analyzed: 05/23/2025

Specific Conductance (EC) 0.372 0.00500 mmhos/cm 0.340 9.14 25

pH 9.54 pH Units 9.44 1.05 25

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Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16J1

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 B5E1620 - EPA 5030 (soil)

Prepared: 05/16/2025 Analyzed: 05/18/2025

Blank (B5E1620-BLK1)

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua

Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		83.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.8	70-130			

Prepared: 05/16/2025 Analyzed: 05/18/2025

LCS (B5E1620-BS1)

1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.100	0.00200	"	0.100		100	70-130			
Benzene	0.0871	0.00200	"	0.100		87.1	70-130			
Ethylbenzene	0.0918	0.00200	"	0.100		91.8	70-130			
Naphthalene	0.0803	0.00380	"	0.100		80.3	70-130			
Toluene	0.0884	0.00200	"	0.100		88.4	70-130			
o-Xylene	0.0956	0.00200	"	0.100		95.6	70-130			
m,p-Xylene	0.186	0.00400	"	0.200		93.0	70-130			

Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.9	70-130			

Prepared: 05/16/2025 Analyzed: 05/18/2025

Matrix Spike (B5E1620-MS1)

Source: E5E0516-01

1,2,4-Trimethylbenzene	0.121	0.00200	mg/kg	0.100	ND	121	70-130			
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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG-Wardell H18-16J1

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 B5E1620 - EPA 5030 (soil)

Matrix Spike (B5E1620-MS1)		Source: E5E0516-01			Prepared: 05/16/2025 Analyzed: 05/18/2025					
1,3,5-Trimethylbenzene	0.122	0.00200	mg/kg	0.100	ND	122	70-130			
Benzene	0.0945	0.00200	"	0.100	ND	94.5	70-130			
Ethylbenzene	0.120	0.00200	"	0.100	ND	120	70-130			
Naphthalene	0.0510	0.00380	"	0.100	ND	51.0	70-130			QM-07
Toluene	0.0997	0.00200	"	0.100	ND	99.7	70-130			
o-Xylene	0.117	0.00200	"	0.100	ND	117	70-130			
m,p-Xylene	0.244	0.00400	"	0.200	ND	122	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.087		"	0.125		69.4	70-130			5-04
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.7	70-130			

Matrix Spike Dup (B5E1620-MSD1)		Source: E5E0516-01			Prepared: 05/16/2025 Analyzed: 05/18/2025					
1,2,4-Trimethylbenzene	0.0962	0.00200	mg/kg	0.100	ND	96.2	70-130	22.6	20	QR-02
1,3,5-Trimethylbenzene	0.0961	0.00200	"	0.100	ND	96.1	70-130	24.0	20	QR-02
Benzene	0.0853	0.00200	"	0.100	ND	85.3	70-130	10.2	20	
Ethylbenzene	0.0924	0.00200	"	0.100	ND	92.4	70-130	25.8	20	QR-02
Naphthalene	0.0712	0.00380	"	0.100	ND	71.2	70-130	33.1	20	QR-03
Toluene	0.0850	0.00200	"	0.100	ND	85.0	70-130	15.9	20	
o-Xylene	0.0933	0.00200	"	0.100	ND	93.3	70-130	22.7	20	QR-02
m,p-Xylene	0.188	0.00400	"	0.200	ND	94.1	70-130	25.7	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		79.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.8	70-130			

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Total Metals 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2801447 - SW846 3060A										
BLANK (1206114120-BLK)										
					Prepared: 05/22/2025 Analyzed: 05/22/2025					
Hexavalent Chromium	ND	0.356	mg/kg				-			U
LCS (1206114121-BKS)										
					Prepared: 05/22/2025 Analyzed: 05/22/2025					
Hexavalent Chromium	3.85	0.387	mg/kg	3.87		99.7	80-120			
DUP (1206114122 D)										
					Source: E5E0522-01					
					Prepared: 05/22/2025 Analyzed: 05/22/2025					
Hexavalent Chromium	ND	0.402	mg/kg dry		<0.161		0-50	N/A	50	U
MS (1206114123 S)										
					Source: E5E0522-01					
					Prepared: 05/22/2025 Analyzed: 05/22/2025					
Hexavalent Chromium	3.57	0.402	mg/kg dry	4.02	<0.161	87.5	75-125			
DUP (1206114124 D)										
					Source: E5E0522-02					
					Prepared: 05/22/2025 Analyzed: 05/22/2025					
Hexavalent Chromium	ND	0.421	mg/kg dry		<0.168		0-50	N/A	50	U
MS (1206114125 S)										
					Source: E5E0522-02					
					Prepared: 05/22/2025 Analyzed: 05/22/2025					
Hexavalent Chromium	3.20	0.421	mg/kg dry	4.21	<0.168	74.5	75-125			
ILCS (1206114126-ILCS)										
					Prepared: 05/22/2025 Analyzed: 05/22/2025					
Hexavalent Chromium	7.00	0.337	mg/kg	6.76		104	80-120			

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Notes and Definitions

- Ua Sample is Non-Detect.
 - U Result not detected above the detection limit
 - S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
 - QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
 - QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
 - QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

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