



**Eagle Environmental Consulting, LLC**

**May 21, 2025**

**Dan Coloccia**

**8000 W 44th Ave**

**Wheat Ridge CO 80033**

**Project Name - KMG-McCoy, Phillip Unit E 1A**

**Project Number - [none]**

Attached are your analytical results for KMG-McCoy, Phillip Unit E 1A received by Origins Laboratory May 07, 2025. This project is associated with Origins project number E5E0268-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory  
303.433.1322  
projectmanager@originslab.com



**1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645**



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

Dan Coloccia  
Project Number: [none]  
Project: KMG-McCoy, Phillip Unit E 1A

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@6'	E5E0268-01	Soil	May 7, 2025 12:30	05/07/2025 16:09
WH-RIS@4'	E5E0268-02	Soil	May 7, 2025 13:05	05/07/2025 16:09
WH-S01@5'	E5E0268-03	Soil	May 7, 2025 12:40	05/07/2025 16:09
WH-W01@5'	E5E0268-04	Soil	May 7, 2025 13:00	05/07/2025 16:09

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-McCoy, Phillip Unit E 1A



**EVCLWD**

Client: Eagle Environmental Consulting  
Address: 8000 W 44th Ave  
Telephone Number: 303 733 0479  
Email Address: dcoloccia@eagle-env.com

Project Manager: D. Coloccia  
Project Name: McCoy, Phillip Unit E 1A  
Project Number: [none]  
Collected By: JS/RJ  
Invoice/Filling Info: [initials] oxy

Key: W=Water  
GW=Groundwater  
SW=Surface Water  
WW=Waste Water  
L=Liquid

Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis		Comments
					Full Table 915-1		
WH-80106	5/17/15	1330	3	UNP	X		
WH-81884		1305					
WH-50105		1240					
WH-40105		1300					

Relinquished By: JS Date: 5/17/15 Time: 1609 Received By: NKM Date: 05/10/125 Time: 16:09  
Temp Received- 0.6°C Received On Ice?  Yes  No  
Turnaround Time:  48 Hr  72  
 SAME DAY  24 Hr

Origins Laboratory

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG-McCoy, Phillip Unit E 1A

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

**Sample Receipt Checklist**

Origins Work Order: ESE0208 Client: Eagle Environmental Consulting  
 Client Project ID: McCoy, Phillip Unit E 1A

Checklist Completed by: NB/NKM Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 5/7/25 Airbill #: N/A

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

Cooler Number/Temperature: 1 / 0.0 °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 <sup>(1)</sup> ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
For volatiles in water – is there headspace (≥ ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			/	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

EAD 5/9/25  
 Reviewed by (Project Manager) Date/Time Reviewed

Origins Laboratory

*EHO*

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG-McCoy, Phillip Unit E 1A

**WH-B01@6'**

**5/7/2025 12:30:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5E0268-01 (Soil) Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
Boron	ND		0.100	mg/L	1	B5E0807	05/08/2025	05/10/2025	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	50.1		25.0	mg/kg	1	B5E0831	05/08/2025	05/09/2025	
Residual Range Organics (C28-C40)	147		100	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>									
	76.4 %			50-150		"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0835	05/08/2025	05/12/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>									
	103 %			70-130		"	"	"	
<i>Surrogate: Toluene-d8</i>									
	96.2 %			70-130		"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>									
	97.6 %			70-130		"	"	"	

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG-McCoy, Phillip Unit E 1A

WH-B01@6'

5/7/2025 12:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0268-01 (Soil)**  
**Origins Laboratory**

**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	05/14/2025	05/15/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.873		0.435	"	"	"	"	"	

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

1-Methylnaphthalene	0.003		0.002	mg/kg	1	B5E0951	05/09/2025	05/14/2025	
2-Methylnaphthalene	0.002		0.002	"	"	"	"	"	
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

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 Project Number: [none]  
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WH-B01@6'

5/7/2025 12:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0268-01 (Soil)**  
**Origins Laboratory**

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

Surrogate: Fluorene-d10	100 %			60-130		B5E0951	05/09/2025	05/14/2025	
Surrogate: Anthracene-d10	97.9 %			60-130		"	"	"	
Surrogate: Pyrene-d10	102 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	87.6 %			60-130		"	"	"	

**pH in Soil by 9045D**

pH	8.94			pH Units	1	B5E1418	05/14/2025	05/15/2025	
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**SAR by 20B Saturated Paste**

SAR	1.36		0.0100	SAR	1	B5E1407	05/14/2025	05/15/2025	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.517		0.00500	mmhos/cm	1	B5E1418	05/14/2025	05/15/2025	
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**Table 915 metals by EPA 6020B**

Arsenic	1.77		0.259	mg/kg	10	B5E0869	05/08/2025	05/09/2025	
Barium	ND		73.1	"	"	"	"	"	
Cadmium	ND		0.339	"	"	"	"	"	
Copper	ND		41.0	"	"	"	"	"	
Lead	ND		12.5	"	"	"	"	"	

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**WH-B01@6'**  
**5/7/2025 12:30:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0268-01 (Soil)**  
**Origins Laboratory**

**Table 915 metals by EPA 6020B**

Nickel	ND		23.2	mg/kg	10	B5E0869	05/08/2025	05/09/2025	
Selenium	ND		0.232	"	"	"	"	"	
Silver	ND		0.714	"	"	"	"	"	
Zinc	ND		330	"	"	"	"	"	

**Waypoint Analytical, LLC.**

**Total Metals 7196A**

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	L817048	05/07/2025	05/16/2025	
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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG-McCoy, Phillip Unit E 1A

**WH-RIS@4'**

**5/7/2025 1:05:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5E0268-02 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
Boron	0.118		0.102	mg/L	1	B5E0807	05/08/2025	05/10/2025	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E0831	05/08/2025	05/08/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	108 %				50-150	"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0835	05/08/2025	05/12/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	106 %				70-130	"	"	"	
Surrogate: Toluene-d8	96.7 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.6 %				70-130	"	"	"	

Origins Laboratory

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG-McCoy, Phillip Unit E 1A

WH-RIS@4'

5/7/2025 1:05:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0268-02 (Soil)**  
**Origins Laboratory**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.35		0.499	meq/L	10	[CALC]	05/14/2025	05/15/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

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

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0951	05/09/2025	05/14/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG-McCoy, Phillip Unit E 1A

**WH-RIS@4'**

**5/7/2025 1:05:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0268-02 (Soil)  
 Origins Laboratory**

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

Pyrene	ND		0.020	mg/kg	1	B5E0951	05/09/2025	05/14/2025	U
Surrogate: Fluorene-d10	101 %			60-130		"	"	"	
Surrogate: Anthracene-d10	96.9 %			60-130		"	"	"	
Surrogate: Pyrene-d10	103 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	93.9 %			60-130		"	"	"	

**pH in Soil by 9045D**

pH	8.27			pH Units	1	B5E1418	05/14/2025	05/15/2025	
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**SAR by 20B Saturated Paste**

SAR	0.0485		0.0100	SAR	1	B5E1407	05/14/2025	05/15/2025	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.244		0.00500	mmhos/cm	1	B5E1418	05/14/2025	05/15/2025	
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**Table 915 metals by EPA 6020B**

Arsenic	2.63		0.253	mg/kg	10	B5E0869	05/08/2025	05/09/2025	
Barium	76.9		71.5	"	"	"	"	"	
Cadmium	ND		0.331	"	"	"	"	"	
Copper	ND		40.1	"	"	"	"	"	

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG-McCoy, Phillip Unit E 1A

**WH-RIS@4'**

**5/7/2025 1:05:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0268-02 (Soil)  
 Origins Laboratory**

**Table 915 metals by EPA 6020B**

Lead	ND		12.2	mg/kg	10	B5E0869	05/08/2025	05/09/2025	
Nickel	ND		22.7	"	"	"	"	"	
Selenium	ND		0.227	"	"	"	"	"	
Silver	ND		0.697	"	"	"	"	"	
Zinc	ND		322	"	"	"	"	"	

**Waypoint Analytical, LLC.**

**Total Metals 7196A**

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	L817048	05/07/2025	05/16/2025	
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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG-McCoy, Phillip Unit E 1A

WH-S01@5'

5/7/2025 12:40:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5E0268-03 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
Boron	0.185		0.101	mg/L	1	B5E0807	05/08/2025	05/10/2025	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E0831	05/08/2025	05/08/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	105 %				50-150	"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0835	05/08/2025	05/12/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	1.24		0.200	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	106 %				70-130	"	"	"	
Surrogate: Toluene-d8	96.4 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.9 %				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-McCoy, Phillip Unit E 1A

WH-S01@5'

5/7/2025 12:40:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0268-03 (Soil)**  
**Origins Laboratory**

**Metals by Saturated Paste by EPA 6010**

Calcium	3.16		0.499	meq/L	10	[CALC]	05/14/2025	05/15/2025	
Magnesium	0.833		0.823	"	"	"	"	"	
Sodium	1.10		0.435	"	"	"	"	"	

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

1-Methylnaphthalene	0.047		0.002	mg/kg	1	B5E0951	05/09/2025	05/14/2025	
2-Methylnaphthalene	0.075		0.002	"	"	"	"	"	
Acenaphthene	0.025		0.020	"	"	"	"	"	
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	0.024		0.020	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	0.007		0.002	"	"	"	"	"	
Pyrene	ND		0.020	"	"	"	"	"	U

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-McCoy, Phillip Unit E 1A

WH-S01@5'

5/7/2025 12:40:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0268-03 (Soil)**  
**Origins Laboratory**

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

Surrogate: Fluorene-d10	99.8 %			60-130		B5E0951	05/09/2025	05/14/2025	
Surrogate: Anthracene-d10	103 %			60-130		"	"	"	
Surrogate: Pyrene-d10	97.8 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	87.7 %			60-130		"	"	"	

**pH in Soil by 9045D**

pH	8.59			pH Units	1	B5E1418	05/14/2025	05/15/2025	
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**SAR by 20B Saturated Paste**

SAR	0.780		0.0100	SAR	1	B5E1407	05/14/2025	05/15/2025	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.592		0.00500	mmhos/cm	1	B5E1418	05/14/2025	05/15/2025	
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**Table 915 metals by EPA 6020B**

Arsenic	3.69		0.252	mg/kg	10	B5E0869	05/08/2025	05/09/2025	
Barium	77.3		71.3	"	"	"	"	"	
Cadmium	ND		0.330	"	"	"	"	"	
Copper	ND		40.0	"	"	"	"	"	
Lead	ND		12.2	"	"	"	"	"	
Nickel	ND		22.6	"	"	"	"	"	

Origins Laboratory

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG-McCoy, Phillip Unit E 1A

WH-S01@5'

5/7/2025 12:40:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0268-03 (Soil)**  
**Origins Laboratory**

**Table 915 metals by EPA 6020B**

Selenium	ND		0.226	mg/kg	10	B5E0869	05/08/2025	05/09/2025	
Silver	ND		0.696	"	"	"	"	"	
Zinc	ND		322	"	"	"	"	"	

**Waypoint Analytical, LLC.**

**Total Metals 7196A**

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	L817048	05/07/2025	05/16/2025	
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Dan Coloccia  
 Project Number: [none]  
 Project: KMG-McCoy, Phillip Unit E 1A

WH-W01@5'

5/7/2025 1:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5E0268-04 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
Boron	0.162		0.101	mg/L	1	B5E0807	05/08/2025	05/10/2025	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	44.8		25.0	mg/kg	1	B5E0831	05/08/2025	05/09/2025	
Residual Range Organics (C28-C40)	104		100	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl	82.3 %			50-150		"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0835	05/08/2025	05/12/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.215		0.200	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	104 %			70-130		"	"	"	
Surrogate: Toluene-d8	99.2 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	96.2 %			70-130		"	"	"	

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG-McCoy, Phillip Unit E 1A

WH-W01@5'

5/7/2025 1:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0268-04 (Soil)**  
**Origins Laboratory**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.16		0.499	meq/L	10	[CALC]	05/14/2025	05/15/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

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

1-Methylnaphthalene	0.016		0.002	mg/kg	1	B5E0951	05/09/2025	05/14/2025	
2-Methylnaphthalene	0.020		0.002	"	"	"	"	"	
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	0.002		0.002	"	"	"	"	"	
Pyrene	ND		0.020	"	"	"	"	"	U

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG-McCoy, Phillip Unit E 1A

WH-W01@5'

5/7/2025 1:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0268-04 (Soil)**  
**Origins Laboratory**

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

Surrogate: Fluorene-d10	100 %			60-130		B5E0951	05/09/2025	05/14/2025	
Surrogate: Anthracene-d10	97.4 %			60-130		"	"	"	
Surrogate: Pyrene-d10	99.3 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	92.3 %			60-130		"	"	"	

**pH in Soil by 9045D**

pH	8.34			pH Units	1	B5E1418	05/14/2025	05/15/2025	
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**SAR by 20B Saturated Paste**

SAR	0.251		0.0100	SAR	1	B5E1407	05/14/2025	05/15/2025	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.359		0.00500	mmhos/cm	1	B5E1418	05/14/2025	05/15/2025	
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**Table 915 metals by EPA 6020B**

Arsenic	3.51		0.263	mg/kg	10	B5E0869	05/08/2025	05/09/2025	
Barium	ND		74.4	"	"	"	"	"	
Cadmium	ND		0.345	"	"	"	"	"	
Copper	ND		41.8	"	"	"	"	"	
Lead	33.2		12.7	"	"	"	"	"	
Nickel	ND		23.6	"	"	"	"	"	

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG-McCoy, Phillip Unit E 1A

WH-W01@5'

5/7/2025 1:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0268-04 (Soil)**  
**Origins Laboratory**

**Table 915 metals by EPA 6020B**

Selenium	ND		0.236	mg/kg	10	B5E0869	05/08/2025	05/09/2025	
Silver	ND		0.726	"	"	"	"	"	
Zinc	ND		336	"	"	"	"	"	

**Waypoint Analytical, LLC.**

**Total Metals 7196A**

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	L817048	05/07/2025	05/16/2025	
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Dan Coloccia  
 Project Number: [none]  
 Project: KMG-McCoy, Phillip Unit E 1A

**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 B5E0807 - DTPA Sorbitol Preparation**

**Blank (B5E0807-BLK1)**

Prepared: 05/08/2025 Analyzed: 05/10/2025

Boron ND 0.100 mg/L

**Duplicate (B5E0807-DUP1)**

Source: E5E0263-04

Prepared: 05/08/2025 Analyzed: 05/10/2025

Boron 0.109 0.0999 mg/L 0.109 0.433 50

**Batch B5E1407 - Saturated Paste Metals**

**Blank (B5E1407-BLK1)**

Prepared: 05/14/2025 Analyzed: 05/15/2025

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

**Duplicate (B5E1407-DUP1)**

Source: E5E0263-10

Prepared: 05/14/2025 Analyzed: 05/15/2025

Calcium PPM 3.74 10.0 mg/L 2.89 25.6 50

SAR ND 0.0100 SAR 0.173 200

Magnesium PPM 3.73 10.0 mg/L 1.34 94.3 50 QR-DUP

Sodium PPM 1.92 10.0 " 1.42 29.9 50

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG-McCoy, Phillip Unit E 1A

**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 B5E0951 - EPA 3580**

**Blank (B5E0951-BLK1)**

Prepared: 05/09/2025 Analyzed: 05/14/2025

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		95.9	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	180		"	200		88.2	60-130			

**LCS (B5E0951-BS1)**

Prepared: 05/09/2025 Analyzed: 05/14/2025

1-Methylnaphthalene	0.213	0.002	mg/kg	0.200		106	70-130			
2-Methylnaphthalene	0.213	0.002	"	0.200		107	70-130			
Acenaphthene	0.215	0.020	"	0.200		107	70-130			
Anthracene	0.208	0.020	"	0.200		104	70-130			

Origins Laboratory

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG-McCoy, Phillip Unit E 1A

**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 B5E0951 - EPA 3580**

**LCS (B5E0951-BS1)**

Prepared: 05/09/2025 Analyzed: 05/14/2025

Benzo (a) anthracene	0.200	0.005	mg/kg	0.200		100	70-130			
Benzo (a) pyrene	0.201	0.020	"	0.200		101	70-130			
Benzo (b) fluoranthene	0.215	0.020	"	0.200		108	70-130			
Benzo (g,h,i) perylene	0.193	0.020	"	0.200		96.7	70-130			
Benzo (k) fluoranthene	0.225	0.020	"	0.200		113	70-130			
Chrysene	0.205	0.020	"	0.200		102	70-130			
Dibenz (a,h) anthracene	0.216	0.020	"	0.200		108	70-130			
Fluoranthene	0.210	0.020	"	0.200		105	70-130			
Fluorene	0.213	0.020	"	0.200		106	70-130			
Indeno (1,2,3-cd) pyrene	0.207	0.020	"	0.200		104	70-130			
Naphthalene	0.213	0.002	"	0.200		107	70-130			
Phenanthrene	0.210	0.020	"	0.200		105	70-130			
Pyrene	0.215	0.020	"	0.200		107	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		96.2	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	180		"	200		90.9	60-130			

**Matrix Spike (B5E0951-MS1)**

Source: E5E0265-01

Prepared: 05/09/2025 Analyzed: 05/14/2025

1-Methylnaphthalene	0.204	0.002	mg/kg	0.200	ND	102	70-130			
2-Methylnaphthalene	0.204	0.002	"	0.200	ND	102	70-130			
Acenaphthene	0.205	0.020	"	0.200	ND	102	70-130			
Anthracene	0.188	0.020	"	0.200	ND	94.2	70-130			
Benzo (a) anthracene	0.190	0.005	"	0.200	0.001	94.7	70-130			
Benzo (a) pyrene	0.192	0.020	"	0.200	0.0009	95.7	70-130			
Benzo (b) fluoranthene	0.210	0.020	"	0.200	0.002	104	70-130			
Benzo (g,h,i) perylene	0.181	0.020	"	0.200	0.004	88.8	70-130			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG-McCoy, Phillip Unit E 1A

**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 B5E0951 - EPA 3580**

<b>Matrix Spike (B5E0951-MS1)</b>		<b>Source: E5E0265-01</b>			<b>Prepared: 05/09/2025 Analyzed: 05/14/2025</b>					
Benzo (k) fluoranthene	0.215	0.020	mg/kg	0.200	0.002	107	70-130			
Chrysene	0.196	0.020	"	0.200	0.001	97.4	70-130			
Dibenz (a,h) anthracene	0.204	0.020	"	0.200	0.004	100	70-130			
Fluoranthene	0.197	0.020	"	0.200	ND	98.6	70-130			
Fluorene	0.205	0.020	"	0.200	ND	102	70-130			
Indeno (1,2,3-cd) pyrene	0.188	0.020	"	0.200	0.004	92.2	70-130			
Naphthalene	0.204	0.002	"	0.200	ND	102	70-130			
Phenanthrene	0.200	0.020	"	0.200	ND	99.9	70-130			
Pyrene	0.207	0.020	"	0.200	ND	103	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		95.2	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	180		"	200		92.0	60-130			

<b>Matrix Spike Dup (B5E0951-MSD1)</b>		<b>Source: E5E0265-01</b>			<b>Prepared: 05/09/2025 Analyzed: 05/14/2025</b>					
1-Methylnaphthalene	0.210	0.002	mg/kg	0.200	ND	105	70-130	3.26	20	
2-Methylnaphthalene	0.211	0.002	"	0.200	ND	106	70-130	3.34	20	
Acenaphthene	0.213	0.020	"	0.200	ND	107	70-130	4.22	20	
Anthracene	0.200	0.020	"	0.200	ND	99.8	70-130	5.73	20	
Benzo (a) anthracene	0.200	0.005	"	0.200	0.001	99.6	70-130	5.02	20	
Benzo (a) pyrene	0.203	0.020	"	0.200	0.0009	101	70-130	5.30	20	
Benzo (b) fluoranthene	0.219	0.020	"	0.200	0.002	109	70-130	4.23	20	
Benzo (g,h,i) perylene	0.189	0.020	"	0.200	0.004	92.6	70-130	4.10	20	
Benzo (k) fluoranthene	0.229	0.020	"	0.200	0.002	113	70-130	5.93	20	
Chrysene	0.198	0.020	"	0.200	0.001	98.4	70-130	0.983	20	
Dibenz (a,h) anthracene	0.210	0.020	"	0.200	0.004	103	70-130	2.82	20	
Fluoranthene	0.207	0.020	"	0.200	ND	103	70-130	4.74	20	

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG-McCoy, Phillip Unit E 1A

**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 B5E0951 - EPA 3580**

**Matrix Spike Dup (B5E0951-MSD1)**

**Source: E5E0265-01**

Prepared: 05/09/2025 Analyzed: 05/14/2025

Fluorene	0.213	0.020	mg/kg	0.200	ND	107	70-130	4.05	20	
Indeno (1,2,3-cd) pyrene	0.198	0.020	"	0.200	0.004	97.1	70-130	5.06	20	
Naphthalene	0.212	0.002	"	0.200	ND	106	70-130	3.69	20	
Phenanthrene	0.210	0.020	"	0.200	ND	105	70-130	4.91	20	
Pyrene	0.217	0.020	"	0.200	ND	109	70-130	4.84	20	
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	190		"	200		96.1	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	180		"	200		90.0	60-130			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG-McCoy, Phillip Unit E 1A

**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
<b>Batch B5E0831 - EPA 3550B</b>										
<b>Blank (B5E0831-BLK1)</b>										
					Prepared: 05/08/2025 Analyzed: 05/08/2025					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	30		"	24.9		119	50-150			
<b>LCS (B5E0831-BS1)</b>										
					Prepared: 05/08/2025 Analyzed: 05/08/2025					
Diesel (C10-C28)	959	50.0	mg/kg	1000		95.9	70-130			
Residual Range Organics (C28-C40)	900	200	"	1000		90.0	70-130			
Surrogate: o-Terphenyl	61		"	49.8		122	50-150			
<b>Matrix Spike (B5E0831-MS1)</b>										
		<b>Source: E5E0263-01</b>			Prepared: 05/08/2025 Analyzed: 05/08/2025					
Diesel (C10-C28)	1020	50.0	mg/kg	1000	ND	102	70-130			
Residual Range Organics (C28-C40)	965	200	"	1000	ND	96.5	70-130			
Surrogate: o-Terphenyl	58		"	49.8		117	50-150			
<b>Matrix Spike Dup (B5E0831-MSD1)</b>										
		<b>Source: E5E0263-01</b>			Prepared: 05/08/2025 Analyzed: 05/08/2025					
Diesel (C10-C28)	903	50.0	mg/kg	1000	ND	90.3	70-130	11.9	35	
Residual Range Organics (C28-C40)	849	200	"	1000	ND	84.9	70-130	12.8	35	
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG-McCoy, Phillip Unit E 1A

**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 B5E0869 - EPA 3050B**

Prepared: 05/08/2025 Analyzed: 05/09/2025

**Blank (B5E0869-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 (B5E0869-BS1)**

Prepared: 05/08/2025 Analyzed: 05/09/2025

Arsenic	5.76	0.290	mg/kg	5.00		115	80-120			
Barium	557	82.0	"	500		111	80-120			
Cadmium	5.63	0.380	"	5.00		113	80-120			
Copper	55.7	46.0	"	50.0		111	80-120			
Lead	5.64	14.0	"	5.00		113	80-120			
Nickel	5.85	26.0	"	5.00		117	80-120			
Selenium	5.70	0.260	"	5.00		114	80-120			
Silver	5.68	0.800	"	5.00		114	80-120			
Zinc	57.3	370	"	50.0		115	80-120			

**Matrix Spike (B5E0869-MS1)**

Source: E5E0268-04

Prepared: 05/08/2025 Analyzed: 05/09/2025

Arsenic	7.28	0.245	mg/kg	4.22	3.51	89.4	75-125			
Barium	571	69.2	"	422	73.2	118	75-125			
Cadmium	5.27	0.320	"	4.22	0.228	119	75-125			
Copper	62.0	38.8	"	42.2	11.9	119	75-125			
Lead	39.0	11.8	"	4.22	33.2	138	75-125			QM-4X

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**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5E0869 - EPA 3050B**

<b>Matrix Spike (B5E0869-MS1)</b>		<b>Source: E5E0268-04</b>		<b>Prepared: 05/08/2025 Analyzed: 05/09/2025</b>						
Nickel	13.5	21.9	mg/kg	4.22	8.08	128	75-125			QM-07
Selenium	5.11	0.219	"	4.22	0.175	117	75-125			
Silver	5.11	0.675	"	4.22	0.0327	120	75-125			
Zinc	94.5	312	"	42.2	45.2	117	75-125			

<b>Matrix Spike Dup (B5E0869-MSD1)</b>		<b>Source: E5E0268-04</b>		<b>Prepared: 05/08/2025 Analyzed: 05/09/2025</b>						
Arsenic	7.25	0.261	mg/kg	4.50	3.51	83.0	75-125	0.469	20	
Barium	589	73.8	"	450	73.2	115	75-125	3.08	20	
Cadmium	5.34	0.342	"	4.50	0.228	113	75-125	1.34	20	
Copper	61.7	41.4	"	45.0	11.9	110	75-125	0.580	20	
Lead	33.9	12.6	"	4.50	33.2	15.6	75-125	14.0	20	QM-4X
Nickel	12.0	23.4	"	4.50	8.08	85.9	75-125	12.1	20	
Selenium	5.12	0.234	"	4.50	0.175	110	75-125	0.301	20	
Silver	5.31	0.720	"	4.50	0.0327	117	75-125	3.87	20	
Zinc	90.8	333	"	45.0	45.2	101	75-125	4.01	20	

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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 B5E1418 - Saturated Paste pH/EC**

**Blank (B5E1418-BLK1)**

Prepared: 05/14/2025 Analyzed: 05/15/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B5E1418-DUP1)**

**Source: E5E0263-10**

Prepared: 05/14/2025 Analyzed: 05/15/2025

pH 7.33 pH Units 7.40 0.950 25

Specific Conductance (EC) 0.0601 0.00500 mmhos/cm 0.0622 3.43 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 B5E0835 - EPA 5030 (soil)**

**Blank (B5E0835-BLK1)**

Prepared: 05/08/2025 Analyzed: 05/11/2025

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

Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	103		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	99.5		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	94.5		70-130			

**LCS (B5E0835-BS1)**

Prepared: 05/08/2025 Analyzed: 05/11/2025

1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100	110		70-130			
1,3,5-Trimethylbenzene	0.111	0.00200	"	0.100	111		70-130			
Benzene	0.105	0.00200	"	0.100	105		70-130			
Ethylbenzene	0.105	0.00200	"	0.100	105		70-130			
Toluene	0.105	0.00200	"	0.100	105		70-130			
o-Xylene	0.106	0.00200	"	0.100	106		70-130			
m,p-Xylene	0.215	0.00400	"	0.200	107		70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	103		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	101		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	104		70-130			

**Matrix Spike (B5E0835-MS1)**

**Source: E5E0243-01**

Prepared: 05/08/2025 Analyzed: 05/11/2025

1,2,4-Trimethylbenzene	0.0731	0.00200	mg/kg	0.100	ND	73.1	70-130			
1,3,5-Trimethylbenzene	0.0754	0.00200	"	0.100	ND	75.4	70-130			
Benzene	0.0955	0.00200	"	0.100	ND	95.5	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 B5E0835 - EPA 5030 (soil)**

<b>Matrix Spike (B5E0835-MS1)</b>		<b>Source: E5E0243-01</b>			<b>Prepared: 05/08/2025 Analyzed: 05/11/2025</b>					
Ethylbenzene	0.0807	0.00200	mg/kg	0.100	ND	80.7	70-130			
Toluene	0.0878	0.00200	"	0.100	ND	87.8	70-130			
o-Xylene	0.0838	0.00200	"	0.100	ND	83.8	70-130			
m,p-Xylene	0.160	0.00400	"	0.200	ND	80.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

<b>Matrix Spike Dup (B5E0835-MSD1)</b>		<b>Source: E5E0243-01</b>			<b>Prepared: 05/08/2025 Analyzed: 05/11/2025</b>					
1,2,4-Trimethylbenzene	0.0931	0.00200	mg/kg	0.100	ND	93.1	70-130	24.1	20	QR-02
1,3,5-Trimethylbenzene	0.0994	0.00200	"	0.100	ND	99.4	70-130	27.5	20	QR-02
Benzene	0.0976	0.00200	"	0.100	ND	97.6	70-130	2.18	20	
Ethylbenzene	0.0949	0.00200	"	0.100	ND	94.9	70-130	16.1	20	
Toluene	0.0950	0.00200	"	0.100	ND	95.0	70-130	7.96	20	
o-Xylene	0.0957	0.00200	"	0.100	ND	95.7	70-130	13.2	20	
m,p-Xylene	0.191	0.00400	"	0.200	ND	95.5	70-130	17.5	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L817048 -</b>										
<b>DUP (L 91564-DUP)</b>										
		<b>Source: 91564</b>			Prepared: Analyzed: 05/16/2025					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0.1	20	
<b>MS (L 91564-MS)</b>										
		<b>Source: 91564</b>			Prepared: Analyzed: 05/16/2025					
Chromium, Hexavalent	32.5	2.5	mg/Kg	39.8	< 0.244	82	75-125			
<b>LCS (LCS)</b>										
					Prepared: Analyzed: 05/16/2025					
Chromium, Hexavalent	6.65	0.5	mg/Kg	8		83	75-125			
<b>LRB (LRB)</b>										
					Prepared: Analyzed: 05/16/2025					
Chromium, Hexavalent	ND	0.5	mg/Kg			-				

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### Notes and Definitions

U Sample is Non-Detect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

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-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.

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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