



Eagle Environmental Consulting, LLC

August 26, 2025

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - McKinstry 28N 21N 7C 2N
OSA

Project Number - [none]

Attached are your analytical results for KMG - McKinstry 28N 21N 7C 2N OSA received by Origins Laboratory August 07, 2025. This project is associated with Origins project number E5H0171-01.

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 - McKinstry 28N 21N 7C 2N OSA

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-06@7.5-10'	E5H0171-01	Soil	August 7, 2025 10:40	08/07/2025 15:25
MW-07@7.5-10'	E5H0171-02	Soil	August 7, 2025 13:20	08/07/2025 15:25
MW-08@7.5-10'	E5H0171-03	Soil	August 7, 2025 14:00	08/07/2025 15:25

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 - McKinstry 28N 21N 7C 2N OSA

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: ESH0171

Client: Eagle Environ

Client Project ID: McKinstry 28N 21N 7C 2N O

Checklist Completed by: NB / TEH

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 8/8/25

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 2.4 °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"/>	<input checked="" type="checkbox"/>		All jars sum - TEH
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 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 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)

08/11/25
Date/Time Reviewed

Origins Laboratory

TEH

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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

MW-06@7.5-10'
8/7/2025 10:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0171-01 (Soil)									
Enthalpy Analytical									
Total Metals by SW7199									
Chromium, Hexavalent	ND	0.08	0.20	mg/kg	1	BIH0836	08/22/2025	08/22/2025	
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.356		0.100	mg/L	1	B5H0830	08/08/2025	08/12/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg wet	1	B5H0818	08/08/2025	08/08/2025	U
Residual Range Organics (C28-C36)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	90.9 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg wet	1	B5H0901	08/09/2025	08/09/2025	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

Origins Laboratory

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

MW-06@7.5-10'
8/7/2025 10:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5H0171-01 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.200	mg/kg wet	1	B5H0901	08/09/2025	08/09/2025	U
Surrogate: 1,2-Dichloroethane-d4	115 %			70-130		"	"	"	
Surrogate: Toluene-d8	100 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	94.4 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	5.21		0.499	meq/L	10	[CALC]	08/08/2025	08/12/2025	
Magnesium	3.27		0.823	"	"	"	"	"	
Sodium	5.79		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg wet	1	B5H0821	08/08/2025	08/08/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U

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MW-06@7.5-10'
8/7/2025 10:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5H0171-01 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Chrysene	ND		0.020	mg/kg wet	1	B5H0821	08/08/2025	08/08/2025	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.5 %			60-130		"	"	"	
Surrogate: Anthracene-d10	98.8 %			60-130		"	"	"	
Surrogate: Pyrene-d10	98.7 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.04			pH Units	1	B5H0825	08/08/2025	08/12/2025	
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SAR by 20B Saturated Paste

SAR	2.81		0.0100	SAR	1	B5H0824	08/08/2025	08/12/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.38		0.00500	mmhos/cm	1	B5H0825	08/08/2025	08/12/2025	
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 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

MW-06@7.5-10'

8/7/2025 10:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0171-01 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	3.49		0.273	mg/kg wet	10	B5H0836	08/08/2025	08/11/2025	
Barium	141		77.1	"	"	"	"	"	
Cadmium	ND		0.357	"	"	"	"	"	U
Copper	ND		43.2	"	"	"	"	"	U
Lead	ND		13.2	"	"	"	"	"	U
Nickel	ND		24.4	"	"	"	"	"	U
Selenium	ND		0.244	"	"	"	"	"	U
Silver	ND		0.752	"	"	"	"	"	U
Zinc	ND		348	"	"	"	"	"	U

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 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

MW-07@7.5-10'

8/7/2025 1:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5H0171-02 (Soil)

Enthalpy Analytical

Total Metals by SW7199

Chromium, Hexavalent	ND	0.08	0.20	mg/kg	1	BIH0836	08/22/2025	08/22/2025	
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Origins Laboratory

Boron (DTPA Sorbitol)

Boron	1.07		0.0999	mg/L	1	B5H0830	08/08/2025	08/12/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg wet	1	B5H0818	08/08/2025	08/08/2025	U
Residual Range Organics (C28-C36)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 88.4 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.002	mg/kg wet	1	B5H0901	08/09/2025	08/09/2025	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

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 Project Number: [none]
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MW-07@7.5-10'

8/7/2025 1:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5H0171-02 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.200	mg/kg wet	1	B5H0901	08/09/2025	08/09/2025	U
Surrogate: 1,2-Dichloroethane-d4	113 %			70-130		"	"	"	
Surrogate: Toluene-d8	100 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	94.9 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	7.93		0.499	meq/L	10	[CALC]	08/08/2025	08/12/2025	
Magnesium	8.11		0.823	"	"	"	"	"	
Sodium	1.31		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg wet	1	B5H0821	08/08/2025	08/08/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U

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 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

MW-07@7.5-10'
 8/7/2025 1:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5H0171-02 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Chrysene	ND		0.020	mg/kg wet	1	B5H0821	08/08/2025	08/08/2025	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.3 %			60-130		"	"	"	
Surrogate: Anthracene-d10	97.4 %			60-130		"	"	"	
Surrogate: Pyrene-d10	95.6 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %			60-130		"	"	"	

pH in Soil by 9045D

pH	7.79			pH Units	1	B5H0825	08/08/2025	08/12/2025	
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SAR by 20B Saturated Paste

SAR	0.464		0.0100	SAR	1	B5H0824	08/08/2025	08/12/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.38		0.00500	mmhos/cm	1	B5H0825	08/08/2025	08/12/2025	
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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

MW-07@7.5-10'

8/7/2025 1:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0171-02 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	4.60		0.283	mg/kg wet	10	B5H0836	08/08/2025	08/11/2025	
Barium	131		80.0	"	"	"	"	"	
Cadmium	ND		0.371	"	"	"	"	"	U
Copper	ND		44.9	"	"	"	"	"	U
Lead	ND		13.7	"	"	"	"	"	U
Nickel	ND		25.4	"	"	"	"	"	U
Selenium	ND		0.254	"	"	"	"	"	U
Silver	ND		0.780	"	"	"	"	"	U
Zinc	ND		361	"	"	"	"	"	U

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 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

MW-08@7.5-10'

8/7/2025 2:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0171-03 (Soil)									
Enthalpy Analytical									
Total Metals by SW7199									
Chromium, Hexavalent	ND	0.08	0.19	mg/kg	1	BIH0836	08/22/2025	08/22/2025	
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.32		0.0999	mg/L	1	B5H0830	08/08/2025	08/12/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg wet	1	B5H0818	08/08/2025	08/08/2025	U
Residual Range Organics (C28-C36)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	87.7 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg wet	1	B5H0901	08/09/2025	08/09/2025	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

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MW-08@7.5-10'

8/7/2025 2:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0171-03 (Soil)									
Origins Laboratory									
GBTEX+TMBs by 8260D									
Gasoline Range Hydrocarbons	ND		0.200	mg/kg wet	1	B5H0901	08/09/2025	08/09/2025	U
Surrogate: 1,2-Dichloroethane-d4	115 %			70-130		"	"	"	
Surrogate: Toluene-d8	98.9 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	94.2 %			70-130		"	"	"	
Metals by Saturated Paste by EPA 6010									
Calcium	6.04		0.499	meq/L	10	[CALC]	08/08/2025	08/12/2025	
Magnesium	7.77		0.823	"	"	"	"	"	
Sodium	1.71		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg wet	1	B5H0821	08/08/2025	08/08/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

MW-08@7.5-10'

8/7/2025 2:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0171-03 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Chrysene	ND		0.020	mg/kg wet	1	B5H0821	08/08/2025	08/08/2025	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.8 %			60-130		"	"	"	
Surrogate: Anthracene-d10	95.2 %			60-130		"	"	"	
Surrogate: Pyrene-d10	98.7 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %			60-130		"	"	"	

pH in Soil by 9045D

pH	7.97			pH Units	1	B5H0825	08/08/2025	08/12/2025	
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SAR by 20B Saturated Paste

SAR	0.650		0.0100	SAR	1	B5H0824	08/08/2025	08/12/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.25		0.00500	mmhos/cm	1	B5H0825	08/08/2025	08/12/2025	
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Origins Laboratory

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

MW-08@7.5-10'

8/7/2025 2:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5H0171-03 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	6.90		0.263	mg/kg wet	10	B5H0836	08/08/2025	08/11/2025	
Barium	179		74.3	"	"	"	"	"	
Cadmium	ND		0.344	"	"	"	"	"	U
Copper	ND		41.7	"	"	"	"	"	U
Lead	ND		12.7	"	"	"	"	"	U
Nickel	ND		23.5	"	"	"	"	"	U
Selenium	ND		0.235	"	"	"	"	"	U
Silver	ND		0.725	"	"	"	"	"	U
Zinc	ND		335	"	"	"	"	"	U

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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 B5H0824 - Saturated Paste Metals

Blank (B5H0824-BLK1)

Prepared: 08/08/2025 Analyzed: 08/12/2025

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 (B5H0824-DUP1)

Source: E5H0171-01

Prepared: 08/08/2025 Analyzed: 08/12/2025

Calcium PPM	108	10.0	mg/L		104			3.23	50	
SAR	ND	0.0100	SAR		2.81				200	U
Magnesium PPM	40.2	10.0	mg/L		39.8			1.00	50	
Sodium PPM	119	10.0	"		133			10.9	50	

Batch B5H0830 - DTPA Sorbitol Preparation

Blank (B5H0830-BLK1)

Prepared: 08/08/2025 Analyzed: 08/12/2025

Boron	ND	0.100	mg/L							U
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Duplicate (B5H0830-DUP1)

Source: E5H0171-01

Prepared: 08/08/2025 Analyzed: 08/12/2025

Boron	0.381	0.0996	mg/L		0.356			6.85	50	
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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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 B5H0821 - EPA 3580

Blank (B5H0821-BLK1)

Prepared: 08/08/2025 Analyzed: 08/08/2025

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 (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		93.3	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.6	60-130			

LCS (B5H0821-BS1)

Prepared: 08/08/2025 Analyzed: 08/08/2025

1-Methylnaphthalene	0.192	0.002	mg/kg wet	0.200		96.2	70-130			
2-Methylnaphthalene	0.208	0.002	"	0.200		104	70-130			
Acenaphthene	0.198	0.020	"	0.200		98.9	70-130			
Anthracene	0.180	0.020	"	0.200		90.0	70-130			

Origins Laboratory

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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 B5H0821 - EPA 3580

LCS (B5H0821-BS1)

Prepared: 08/08/2025 Analyzed: 08/08/2025

Benzo (a) anthracene	0.196	0.005	mg/kg wet	0.200		98.1	70-130			
Benzo (a) pyrene	0.183	0.020	"	0.200		91.3	70-130			
Benzo (b) fluoranthene	0.200	0.020	"	0.200		100	70-130			
Benzo (g,h,i) perylene	0.206	0.020	"	0.200		103	70-130			
Benzo (k) fluoranthene	0.193	0.020	"	0.200		96.4	70-130			
Chrysene	0.196	0.020	"	0.200		98.0	70-130			
Dibenz (a,h) anthracene	0.211	0.020	"	0.200		106	70-130			
Fluoranthene	0.193	0.020	"	0.200		96.5	70-130			
Fluorene	0.196	0.020	"	0.200		97.9	70-130			
Indeno (1,2,3-cd) pyrene	0.210	0.020	"	0.200		105	70-130			
Naphthalene	0.192	0.002	"	0.200		95.8	70-130			
Phenanthrene	0.200	0.020	"	0.200		100	70-130			
Pyrene	0.191	0.020	"	0.200		95.7	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		94.8	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.2	60-130			

Matrix Spike (B5H0821-MS1)

Source: E5H0106-01

Prepared: 08/08/2025 Analyzed: 08/08/2025

1-Methylnaphthalene	0.193	0.002	mg/kg wet	0.200	ND	96.7	70-130			
2-Methylnaphthalene	0.209	0.002	"	0.200	ND	105	70-130			
Acenaphthene	0.197	0.020	"	0.200	ND	98.5	70-130			
Anthracene	0.180	0.020	"	0.200	ND	89.9	70-130			
Benzo (a) anthracene	0.197	0.005	"	0.200	ND	98.3	70-130			
Benzo (a) pyrene	0.190	0.020	"	0.200	0.0009	94.4	70-130			
Benzo (b) fluoranthene	0.201	0.020	"	0.200	0.0006	100	70-130			
Benzo (g,h,i) perylene	0.205	0.020	"	0.200	0.0008	102	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 B5H0821 - EPA 3580

Matrix Spike (B5H0821-MS1)

Source: E5H0106-01

Prepared: 08/08/2025 Analyzed: 08/08/2025

Benzo (k) fluoranthene	0.194	0.020	mg/kg wet	0.200	ND	96.8	70-130			
Chrysene	0.198	0.020	"	0.200	ND	99.1	70-130			
Dibenz (a,h) anthracene	0.206	0.020	"	0.200	0.0008	102	70-130			
Fluoranthene	0.188	0.020	"	0.200	ND	94.1	70-130			
Fluorene	0.194	0.020	"	0.200	0.0009	96.7	70-130			
Indeno (1,2,3-cd) pyrene	0.212	0.020	"	0.200	ND	106	70-130			
Naphthalene	0.190	0.002	"	0.200	ND	94.8	70-130			
Phenanthrene	0.195	0.020	"	0.200	ND	97.7	70-130			
Pyrene	0.196	0.020	"	0.200	ND	98.0	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		93.2	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.8	60-130			

Matrix Spike Dup (B5H0821-MSD1)

Source: E5H0106-01

Prepared: 08/08/2025 Analyzed: 08/08/2025

1-Methylnaphthalene	0.199	0.002	mg/kg wet	0.200	ND	99.4	70-130	2.78	20	
2-Methylnaphthalene	0.217	0.002	"	0.200	ND	109	70-130	3.77	20	
Acenaphthene	0.205	0.020	"	0.200	ND	103	70-130	4.04	20	
Anthracene	0.191	0.020	"	0.200	ND	95.4	70-130	5.93	20	
Benzo (a) anthracene	0.204	0.005	"	0.200	ND	102	70-130	3.96	20	
Benzo (a) pyrene	0.202	0.020	"	0.200	0.0009	100	70-130	6.07	20	
Benzo (b) fluoranthene	0.216	0.020	"	0.200	0.0006	108	70-130	7.39	20	
Benzo (g,h,i) perylene	0.218	0.020	"	0.200	0.0008	109	70-130	6.13	20	
Benzo (k) fluoranthene	0.204	0.020	"	0.200	ND	102	70-130	5.44	20	
Chrysene	0.205	0.020	"	0.200	ND	103	70-130	3.36	20	
Dibenz (a,h) anthracene	0.224	0.020	"	0.200	0.0008	111	70-130	8.37	20	
Fluoranthene	0.198	0.020	"	0.200	ND	99.2	70-130	5.30	20	

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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 B5H0821 - EPA 3580

Matrix Spike Dup (B5H0821-MSD1)

Source: E5H0106-01

Prepared: 08/08/2025 Analyzed: 08/08/2025

Fluorene	0.202	0.020	mg/kg wet	0.200	0.0009	101	70-130	4.04	20	
Indeno (1,2,3-cd) pyrene	0.229	0.020	"	0.200	ND	115	70-130	7.73	20	
Naphthalene	0.197	0.002	"	0.200	ND	98.3	70-130	3.60	20	
Phenanthrene	0.206	0.020	"	0.200	ND	103	70-130	5.39	20	
Pyrene	0.203	0.020	"	0.200	ND	102	70-130	3.62	20	
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		94.9	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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 B5H0818 - EPA 3550B

Blank (B5H0818-BLK1)

Prepared: 08/08/2025 Analyzed: 08/08/2025

Diesel (C10-C28)	ND	25.0	mg/kg wet							U
Residual Range Organics (C28-C36)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		98.4	50-150			

LCS (B5H0818-BS1)

Prepared: 08/08/2025 Analyzed: 08/08/2025

Diesel (C10-C28)	955	50.0	mg/kg wet	1000		95.5	70-130			
Residual Range Organics (C28-C36)	969	200	"	1000		96.9	70-130			
Surrogate: o-Terphenyl	54		"	49.8		108	50-150			

Matrix Spike (B5H0818-MS1)

Source: E5H0106-01

Prepared: 08/08/2025 Analyzed: 08/08/2025

Diesel (C10-C28)	933	50.0	mg/kg wet	1000	ND	93.3	70-130			
Residual Range Organics (C28-C36)	958	200	"	1000	ND	95.8	70-130			
Surrogate: o-Terphenyl	56		"	49.8		113	50-150			

Matrix Spike Dup (B5H0818-MSD1)

Source: E5H0106-01

Prepared: 08/08/2025 Analyzed: 08/08/2025

Diesel (C10-C28)	977	50.0	mg/kg wet	1000	ND	97.7	70-130	4.54	35	
Residual Range Organics (C28-C36)	1010	200	"	1000	ND	101	70-130	5.07	35	
Surrogate: o-Terphenyl	55		"	49.8		110	50-150			

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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 B5H0836 - EPA 3050B

Blank (B5H0836-BLK1)

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

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

LCS (B5H0836-BS1)

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

Arsenic	5.24	0.290	mg/kg wet	5.00		105	80-120			
Barium	499	82.0	"	500		99.8	80-120			
Cadmium	5.49	0.380	"	5.00		110	80-120			
Copper	53.6	46.0	"	50.0		107	80-120			
Lead	5.22	14.0	"	5.00		104	80-120			U
Nickel	5.36	26.0	"	5.00		107	80-120			U
Selenium	5.60	0.260	"	5.00		112	80-120			
Silver	5.49	0.800	"	5.00		110	80-120			
Zinc	52.6	370	"	50.0		105	80-120			U

Matrix Spike (B5H0836-MS1)

Source: E5H0131-01

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

Arsenic	8.93	0.272	mg/kg wet	4.68	5.11	81.7	75-125			
Barium	624	76.8	"	468	67.3	119	75-125			
Cadmium	5.61	0.356	"	4.68	0.132	117	75-125			
Copper	58.3	43.1	"	46.8	6.47	111	75-125			
Lead	15.4	13.1	"	4.68	8.72	142	75-125			QM-07

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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 B5H0836 - EPA 3050B

Matrix Spike (B5H0836-MS1)

Source: E5H0131-01

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

Nickel	11.3	24.4	mg/kg wet	4.68	7.04	90.2	75-125			U
Selenium	5.32	0.244	"	4.68	0.170	110	75-125			
Silver	5.53	0.749	"	4.68	0.0174	118	75-125			
Zinc	86.6	347	"	46.8	32.1	116	75-125			U

Matrix Spike Dup (B5H0836-MSD1)

Source: E5H0131-01

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

Arsenic	9.10	0.265	mg/kg wet	4.56	5.11	87.5	75-125	1.80	20	
Barium	656	74.8	"	456	67.3	129	75-125	4.98	20	QM-07
Cadmium	5.55	0.347	"	4.56	0.132	119	75-125	1.07	20	
Copper	57.6	42.0	"	45.6	6.47	112	75-125	1.26	20	
Lead	14.4	12.8	"	4.56	8.72	123	75-125	6.76	20	
Nickel	11.3	23.7	"	4.56	7.04	92.8	75-125	0.0648	20	U
Selenium	5.25	0.237	"	4.56	0.170	111	75-125	1.33	20	
Silver	5.40	0.730	"	4.56	0.0174	118	75-125	2.32	20	
Zinc	74.6	338	"	45.6	32.1	93.1	75-125	14.9	20	U

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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 B5H0825 - Saturated Paste pH/EC

Blank (B5H0825-BLK1)

Prepared: 08/08/2025 Analyzed: 08/12/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B5H0825-DUP1)

Source: E5H0171-01

Prepared: 08/08/2025 Analyzed: 08/12/2025

Specific Conductance (EC)	1.36	0.00500	mmhos/cm		1.38		1.41		25	
pH	8.06		pH Units		8.04		0.248		25	

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Dan Coloccia
 Project Number: [none]
 Project: KMG - McKinstry 28N 21N 7C 2N OSA

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 B5H0901 - EPA 5030 (soil)

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

Blank (B5H0901-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
Naphthalene	ND	0.004	"							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

102

70-130

Surrogate: Toluene-d8

0.12

"

0.125

99.1

70-130

Surrogate: 4-Bromofluorobenzene

0.12

"

0.125

99.2

70-130

LCS (B5H0901-BS1)

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

1,2,4-Trimethylbenzene	0.104	0.002	mg/kg wet	0.100		104	70-130			
1,3,5-Trimethylbenzene	0.104	0.002	"	0.100		104	70-130			
Benzene	0.100	0.002	"	0.100		99.9	70-130			
Ethylbenzene	0.106	0.002	"	0.100		106	70-130			
Naphthalene	0.093	0.004	"	0.100		93.3	70-130			
Toluene	0.102	0.002	"	0.100		102	70-130			
o-Xylene	0.103	0.002	"	0.100		103	70-130			
m,p-Xylene	0.197	0.004	"	0.200		98.7	70-130			

Surrogate: 1,2-Dichloroethane-d4

0.12

"

0.125

99.2

70-130

Surrogate: Toluene-d8

0.13

"

0.125

101

70-130

Surrogate: 4-Bromofluorobenzene

0.13

"

0.125

101

70-130

Matrix Spike (B5H0901-MS1)

Source: E5H0171-01

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

1,2,4-Trimethylbenzene	0.085	0.002	mg/kg wet	0.100	ND	84.9	70-130			
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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 - McKinstry 28N 21N 7C 2N OSA

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 B5H0901 - EPA 5030 (soil)

Matrix Spike (B5H0901-MS1)

Source: E5H0171-01

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

1,3,5-Trimethylbenzene	0.085	0.002	mg/kg wet	0.100	ND	84.6	70-130			
Benzene	0.084	0.002	"	0.100	ND	84.0	70-130			
Ethylbenzene	0.085	0.002	"	0.100	ND	85.0	70-130			
Naphthalene	0.077	0.004	"	0.100	ND	77.2	70-130			
Toluene	0.084	0.002	"	0.100	ND	84.4	70-130			
o-Xylene	0.083	0.002	"	0.100	ND	83.3	70-130			
m,p-Xylene	0.158	0.004	"	0.200	ND	79.0	70-130			

Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Matrix Spike Dup (B5H0901-MSD1)

Source: E5H0171-01

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

1,2,4-Trimethylbenzene	0.089	0.002	mg/kg wet	0.100	ND	88.5	70-130	4.17	20	
1,3,5-Trimethylbenzene	0.088	0.002	"	0.100	ND	88.4	70-130	4.35	20	
Benzene	0.087	0.002	"	0.100	ND	87.3	70-130	3.81	20	
Ethylbenzene	0.089	0.002	"	0.100	ND	88.8	70-130	4.44	20	
Naphthalene	0.089	0.004	"	0.100	ND	88.8	70-130	14.0	20	
Toluene	0.087	0.002	"	0.100	ND	87.1	70-130	3.15	20	
o-Xylene	0.088	0.002	"	0.100	ND	87.9	70-130	5.30	20	
m,p-Xylene	0.166	0.004	"	0.200	ND	82.8	70-130	4.64	20	

Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	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 - McKinstry 28N 21N 7C 2N OSA

Total Metals by SW7199 - Quality Control
Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch BIH0836 - No Prep IC-WET

Blank (BIH0836-BLK1)

Prepared: 08/22/2025 Analyzed: 08/22/2025

Chromium, Hexavalent ND 0.005 mg/kg

LCS (BIH0836-BS1)

Prepared: 08/22/2025 Analyzed: 08/22/2025

Chromium, Hexavalent 0.05 0.005 mg/kg 0.0500 94.3 80-120

LCS (BIH0836-BS2)

Prepared: 08/22/2025 Analyzed: 08/22/2025

Chromium, Hexavalent 9.17 1.00 mg/kg 8.56 107 80-120

Matrix Spike (BIH0836-MS1)

Source: 25H1032-12

Prepared: 08/22/2025 Analyzed: 08/22/2025

Chromium, Hexavalent 1.87 0.20 mg/kg 2.02 ND 92.4 75-125

Matrix Spike Dup (BIH0836-MSD1)

Source: 25H1032-12

Prepared: 08/22/2025 Analyzed: 08/22/2025

Chromium, Hexavalent 1.85 0.20 mg/kg 2.02 ND 91.7 75-125 0.961 20

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

Dan Coloccia
Project Number: [none]
Project: KMG - McKinstry 28N 21N 7C 2N OSA

Notes and Definitions

- U Sample is Non-Detect.
 - QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

Origins Laboratory

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