



**Ensolum**

**September 29, 2025**

**Jeremy Espinoza**

**11049 W 44th Avenue, Suite 103**

**Wheat Ridge CO 80033**

**Project Name - KMG - Madrigal 02-22 Facility**

**Project Number - 09A1417840**

Attached are your analytical results for KMG - Madrigal 02-22 Facility received by Origins Laboratory September 11, 2025. This project is associated with Origins project number E5I0281-01.

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.

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**



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

Jeremy Espinoza  
Project Number: 09A1417840  
Project: KMG - Madrigal 02-22 Facility

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB02@2'	E510281-01	Soil	September 11, 2025 12:12	09/11/2025 13:56
SB03@2'	E510281-02	Soil	September 11, 2025 11:17	09/11/2025 13:56
SB04@2'	E510281-03	Soil	September 11, 2025 11:41	09/11/2025 13:56
SB05@2'	E510281-04	Soil	September 11, 2025 10:28	09/11/2025 13:56

Origins Laboratory

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Kayla Kenyon For Jen Pellegrini, Project Manager

# ORIGINS

LABORATORY

# ESTD 2016

Client: ENSOLUM  
 Address: \_\_\_\_\_  
 Telephone Number: \_\_\_\_\_  
 Email Address: \_\_\_\_\_

Project Manager: J. Espinoza  
 Project Name: MADRIGAL OR 22 FACILITY  
 Project Number: 09A1H17810  
 Collected By: HK

Invoices/Billing Info: Unpacked/oxxy  
 Key: W=Water  
GW=Groundwater  
SW=Surface Water  
WW=Waste Water  
L=Liquid

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas || UNP=Unpres | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis		Comments
1	SBO2e21	9/11/25	1212	3	9	UNP		
2	SBO3e21		1117					
3	SBO4e21		1141					
4	SBO5e21		1028					
5								
6								
7								
8								
9								
10								

Relinquished By: [Signature]  
 Date: 9/11/25  
 Time: 354  
 Received By: NKM  
 Date: 0911125  
 Time: 13:56

Temp Received: 5.2°C Received On Ice?  Yes  No  
 Turnaround Time  
 SAME DAY  24 HR  
 48 Hr  72  
 Standard

Sample Receipt Checklist

Origins Work Order: ESI0281

Client: Ensolium

Client Project ID: Madrigal

Checklist Completed by: gmc/ome

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

Date/time completed: 9/12/25

Airbill #: N/A


Matrix(s) Received: (Check all that apply): 2 Soil/Solid      Water      Other:     

Cooler Number/Temperature: 1 15.2 °C      /      °C      /      °C (Describe)

Thermometer ID: T-004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <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? If yes, contact client and note in narrative.			✓	
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.

  
Reviewed by (Project Manager)

09/11/25  
Date/Time Reviewed



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

Jeremy Espinoza  
 Project Number: 09A1417840  
 Project: KMG - Madrigal 02-22 Facility

**SB02@2'**

**9/11/2025 12:12:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E510281-01 (Soil)  
 Enthalpy Orange**

**Total Metals by 7199**

Hexavalent Chromium	ND	0.18	0.35	mg/Kg dry	1	382703	09/23/2025	09/25/2025	ND
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**Origins Laboratory**

**Boron (DTPA Sorbitol)**

(DTPA Sorbitol) Boron	0.236		0.119	mg/L dry	1	B511223	09/12/2025	09/15/2025	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		29.8	mg/kg dry	1	B511501	09/15/2025	09/15/2025	U
Residual Range Organics (C28-C36)	ND		119	"	"	"	"	"	U

Surrogate: o-Terphenyl	62.6 %			50-150		"	"	"	
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**GBTEX+TMBs by 8260D**

									<b>O-02</b>
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B511251	09/12/2025	09/13/2025	U
1,3,5-Trimethylbenzene	ND		0.002	"	"	"	"	"	U
Benzene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U

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Kayla Kenyon For Jen Pellegrini, Project Manager



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**SB02@2'**

**9/11/2025 12:12:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E510281-01 (Soil)  
 Origins Laboratory**

**GBTEX+TMBs by 8260D**

**O-02**

Toluene	ND		0.002	mg/kg dry	1	B51251	09/12/2025	09/13/2025	U
Xylenes, total	ND		0.002	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.239	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	115 %			70-130		"	"	"	
Surrogate: Toluene-d8	93.6 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	2.99		0.499	meq/L	10	[CALC]	09/12/2025	09/15/2025	
Magnesium	1.18		0.823	"	"	"	"	"	
Sodium	4.65		0.435	"	"	"	"	"	

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

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B51238	09/12/2025	09/15/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.024	"	"	"	"	"	U
Anthracene	ND		0.024	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U

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**SB02@2'**

**9/11/2025 12:12:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E510281-01 (Soil)  
 Origins Laboratory**

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

Benzo (a) pyrene	ND		0.024	mg/kg dry	1	B511238	09/12/2025	09/15/2025	U
Benzo (b) fluoranthene	ND		0.024	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.024	"	"	"	"	"	U
Chrysene	ND		0.024	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.024	"	"	"	"	"	U
Fluoranthene	ND		0.024	"	"	"	"	"	U
Fluorene	ND		0.024	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.024	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.024	"	"	"	"	"	U

Surrogate: Fluorene-d10	103 %			60-130		"	"	"	
Surrogate: Anthracene-d10	97.7 %			60-130		"	"	"	
Surrogate: Pyrene-d10	101 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.8 %			60-130		"	"	"	

**pH in Soil by 9045D**

pH	8.16			pH Units	1	B511228	09/12/2025	09/15/2025	
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**SAR by 20B Saturated Paste**

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**SB02@2'**  
**9/11/2025 12:12:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E510281-01 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>SAR by 20B Saturated Paste</b>									
SAR	3.22		0.0100	SAR	1	B511220	09/12/2025	09/15/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	1.05		0.00500	mmhos/cm	1	B511228	09/12/2025	09/15/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	3.48		0.229	mg/kg dry	10	B511253	09/12/2025	09/16/2025	
Barium	99.6		64.6	"	"	"	"	"	
Cadmium	ND		0.299	"	"	"	"	"	U
Copper	ND		36.2	"	"	"	"	"	U
Lead	ND		11.0	"	"	"	"	"	U
Nickel	ND		20.5	"	"	"	"	"	U
Selenium	0.211		0.194	"	"	"	"	"	
Silver	ND		0.630	"	"	"	"	"	U
Zinc	ND		291	"	"	"	"	"	U

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**SB03@2'**  
**9/11/2025 11:17:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E510281-02 (Soil)**  
**Enthalpy Orange**

**Total Metals by 7199**

Hexavalent Chromium	ND	0.17	0.34	mg/Kg dry	1	382703	09/23/2025	09/25/2025	ND
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**Origins Laboratory**

**Boron (DTPA Sorbitol)**

(DTPA Sorbitol) Boron	0.191		0.117	mg/L dry	1	B511223	09/12/2025	09/15/2025	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		29.6	mg/kg dry	1	B511501	09/15/2025	09/15/2025	U
Residual Range Organics (C28-C36)	ND		118	"	"	"	"	"	U

Surrogate: o-Terphenyl	64.9 %			50-150		"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B511251	09/12/2025	09/13/2025	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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**SB03@2'**

**9/11/2025 11:17:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E510281-02 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>GBTEX+TMBs by 8260D</b>									
Gasoline Range Hydrocarbons	ND		0.237	mg/kg dry	1	B511251	09/12/2025	09/13/2025	U
Surrogate: 1,2-Dichloroethane-d4	104 %			70-130	"	"	"	"	"
Surrogate: Toluene-d8	94.5 %			70-130	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %			70-130	"	"	"	"	"
<b>Metals by Saturated Paste by EPA 6010</b>									
Calcium	2.77		0.499	meq/L	10	[CALC]	09/12/2025	09/15/2025	
Magnesium	1.31		0.823	"	"	"	"	"	
Sodium	3.24		0.435	"	"	"	"	"	
<b>PAH by EPA 8270E extracted via 3580A</b>									
1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B511238	09/12/2025	09/15/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.024	"	"	"	"	"	U
Anthracene	ND		0.024	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.024	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.024	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.024	"	"	"	"	"	U

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Kayla Kenyon For Jen Pellegrini, Project Manager



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 Project Number: 09A1417840  
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**SB03@2'**

**9/11/2025 11:17:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E510281-02 (Soil) Origins Laboratory</b>									
<b>PAH by EPA 8270E extracted via 3580A</b>									
Chrysene	ND		0.024	mg/kg dry	1	B511238	09/12/2025	09/15/2025	U
Dibenz (a,h) anthracene	ND		0.024	"	"	"	"	"	U
Fluoranthene	ND		0.024	"	"	"	"	"	U
Fluorene	ND		0.024	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.024	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.024	"	"	"	"	"	U
Surrogate: Fluorene-d10	104 %				60-130	"	"	"	
Surrogate: Anthracene-d10	96.0 %				60-130	"	"	"	
Surrogate: Pyrene-d10	97.3 %				60-130	"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.0 %				60-130	"	"	"	
<b>pH in Soil by 9045D</b>									
pH	8.18			pH Units	1	B511228	09/12/2025	09/15/2025	
<b>SAR by 20B Saturated Paste</b>									
SAR	2.26		0.0100	SAR	1	B511220	09/12/2025	09/15/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.913		0.00500	mmhos/cm	1	B511228	09/12/2025	09/15/2025	

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 Project Number: 09A1417840  
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**SB03@2'**

**9/11/2025 11:17:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E510281-02 (Soil)  
 Origins Laboratory**

**Table 915 metals by EPA 6020B**

Arsenic	2.78		0.246	mg/kg dry	10	B511253	09/12/2025	09/16/2025	
Barium	94.9		69.4	"	"	"	"	"	
Cadmium	ND		0.321	"	"	"	"	"	U
Copper	ND		38.9	"	"	"	"	"	U
Lead	ND		11.8	"	"	"	"	"	U
Nickel	ND		22.0	"	"	"	"	"	U
Selenium	ND		0.208	"	"	"	"	"	U
Silver	ND		0.677	"	"	"	"	"	U
Zinc	ND		313	"	"	"	"	"	U

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**SB04@2'**

**9/11/2025 11:41:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E510281-03 (Soil)</b>									
<b>Enthalpy Orange</b>									
<b>Total Metals by 7199</b>									
Hexavalent Chromium	ND	0.18	0.36	mg/Kg dry	1	382703	09/23/2025	09/25/2025	ND
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
(DTPA Sorbitol) Boron	0.410		0.124	mg/L dry	1	B511223	09/12/2025	09/15/2025	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		30.9	mg/kg dry	1	B511501	09/15/2025	09/15/2025	U
Residual Range Organics (C28-C36)	ND		123	"	"	"	"	"	U
Surrogate: o-Terphenyl	65.2 %			50-150		"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B511251	09/12/2025	09/13/2025	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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**SB04@2'**

**9/11/2025 11:41:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E510281-03 (Soil) Origins Laboratory</b>									
<b>GBTEX+TMBs by 8260D</b>									
Gasoline Range Hydrocarbons	ND		0.247	mg/kg dry	1	B511251	09/12/2025	09/13/2025	U
Surrogate: 1,2-Dichloroethane-d4	103 %			70-130	"	"	"	"	
Surrogate: Toluene-d8	95.2 %			70-130	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %			70-130	"	"	"	"	
<b>Metals by Saturated Paste by EPA 6010</b>									
Calcium	3.35		0.499	meq/L	10	[CALC]	09/12/2025	09/15/2025	
Magnesium	1.03		0.823	"	"	"	"	"	
Sodium	4.10		0.435	"	"	"	"	"	
<b>PAH by EPA 8270E extracted via 3580A</b>									
1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B511238	09/12/2025	09/15/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.025	"	"	"	"	"	U
Anthracene	ND		0.025	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.025	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.025	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.025	"	"	"	"	"	U

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

Jeremy Espinoza  
 Project Number: 09A1417840  
 Project: KMG - Madrigal 02-22 Facility

**SB04@2'**

**9/11/2025 11:41:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E510281-03 (Soil) Origins Laboratory</b>									
<b>PAH by EPA 8270E extracted via 3580A</b>									
Chrysene	ND		0.025	mg/kg dry	1	B511238	09/12/2025	09/15/2025	U
Dibenz (a,h) anthracene	ND		0.025	"	"	"	"	"	U
Fluoranthene	ND		0.025	"	"	"	"	"	U
Fluorene	ND		0.025	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.025	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.025	"	"	"	"	"	U
Surrogate: Fluorene-d10	103 %				60-130	"	"	"	
Surrogate: Anthracene-d10	99.5 %				60-130	"	"	"	
Surrogate: Pyrene-d10	99.0 %				60-130	"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.7 %				60-130	"	"	"	
<b>pH in Soil by 9045D</b>									
pH	8.08			pH Units	1	B511228	09/12/2025	09/15/2025	
<b>SAR by 20B Saturated Paste</b>									
SAR	2.77		0.0100	SAR	1	B511220	09/12/2025	09/15/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	1.12		0.00500	mmhos/cm	1	B511228	09/12/2025	09/15/2025	

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 Project: KMG - Madrigal 02-22 Facility

**SB04@2'**

**9/11/2025 11:41:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E510281-03 (Soil)  
 Origins Laboratory**

**Table 915 metals by EPA 6020B**

Arsenic	4.65		0.252	mg/kg dry	10	B511253	09/12/2025	09/16/2025	
Barium	156		71.0	"	"	"	"	"	
Cadmium	ND		0.329	"	"	"	"	"	U
Copper	ND		39.8	"	"	"	"	"	U
Lead	ND		12.1	"	"	"	"	"	U
Nickel	ND		22.5	"	"	"	"	"	U
Selenium	ND		0.213	"	"	"	"	"	U
Silver	ND		0.693	"	"	"	"	"	U
Zinc	ND		320	"	"	"	"	"	U

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**SB05@2'**  
**9/11/2025 10:28:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E510281-04 (Soil)**  
**Enthalpy Orange**

**Total Metals by 7199**

Hexavalent Chromium	ND	0.16	0.31	mg/Kg dry	1	382703	09/23/2025	09/25/2025	ND
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**Origins Laboratory**

**Boron (DTPA Sorbitol)**

(DTPA Sorbitol) Boron	3.97		0.106	mg/L dry	1	B511223	09/12/2025	09/15/2025	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		27.0	mg/kg dry	1	B511501	09/15/2025	09/15/2025	U
Residual Range Organics (C28-C36)	ND		108	"	"	"	"	"	U

Surrogate: o-Terphenyl	57.5 %			50-150		"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B511251	09/12/2025	09/13/2025	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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**SB05@2'**

**9/11/2025 10:28:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E510281-04 (Soil) Origins Laboratory</b>									
<b>GBTEX+TMBs by 8260D</b>									
Gasoline Range Hydrocarbons	ND		0.216	mg/kg dry	1	B511251	09/12/2025	09/13/2025	U
Surrogate: 1,2-Dichloroethane-d4	106 %			70-130	"	"	"	"	
Surrogate: Toluene-d8	98.5 %			70-130	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130	"	"	"	"	
<b>Metals by Saturated Paste by EPA 6010</b>									
Calcium	2.76		0.499	meq/L	10	[CALC]	09/12/2025	09/15/2025	
Magnesium	4.60		0.823	"	"	"	"	"	
Sodium	18.4		0.435	"	"	"	"	"	
<b>PAH by EPA 8270E extracted via 3580A</b>									
1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B511238	09/12/2025	09/15/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.022	"	"	"	"	"	U
Anthracene	ND		0.022	"	"	"	"	"	U
Benzo (a) anthracene	0.032		0.005	"	"	"	"	"	
Benzo (a) pyrene	0.042		0.022	"	"	"	"	"	
Benzo (b) fluoranthene	0.032		0.022	"	"	"	"	"	
Benzo (k) fluoranthene	ND		0.022	"	"	"	"	"	U
Chrysene	0.044		0.022	"	"	"	"	"	

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**SB05@2'**

**9/11/2025 10:28:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E510281-04 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>PAH by EPA 8270E extracted via 3580A</b>									
Dibenz (a,h) anthracene	ND		0.022	mg/kg dry	1	B511238	09/12/2025	09/15/2025	U
Fluoranthene	0.033		0.022	"	"	"	"	"	
Fluorene	ND		0.022	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	0.032		0.022	"	"	"	"	"	
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	0.054		0.022	"	"	"	"	"	
Surrogate: Fluorene-d10	106 %			60-130		"	"	"	
Surrogate: Anthracene-d10	96.5 %			60-130		"	"	"	
Surrogate: Pyrene-d10	97.6 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.3 %			60-130		"	"	"	
<b>pH in Soil by 9045D</b>									
pH	7.96			pH Units	1	B511228	09/12/2025	09/15/2025	
<b>SAR by 20B Saturated Paste</b>									
SAR	9.60		0.0100	SAR	1	B511220	09/12/2025	09/15/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	3.54		0.00500	mmhos/cm	1	B511228	09/12/2025	09/15/2025	

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Kayla Kenyon For Jen Pellegrini, Project Manager



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Jeremy Espinoza  
 Project Number: 09A1417840  
 Project: KMG - Madrigal 02-22 Facility

**SB05@2'**

**9/11/2025 10:28:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E510281-04 (Soil)  
 Origins Laboratory**

**Table 915 metals by EPA 6020B**

Arsenic	4.14		0.215	mg/kg dry	10	B511253	09/12/2025	09/16/2025	
Barium	75.2		60.6	"	"	"	"	"	
Cadmium	0.385		0.281	"	"	"	"	"	
Copper	ND		34.0	"	"	"	"	"	U
Lead	21.2		10.4	"	"	"	"	"	
Nickel	ND		19.2	"	"	"	"	"	U
Selenium	0.204		0.182	"	"	"	"	"	
Silver	ND		0.591	"	"	"	"	"	U
Zinc	ND		274	"	"	"	"	"	U

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**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 B511220 - Saturated Paste Metals**

**Blank (B511220-BLK1)**

Prepared: 09/12/2025 Analyzed: 09/15/2025

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 (B511220-DUP1)**

**Source: E5I0270-01**

Prepared: 09/12/2025 Analyzed: 09/15/2025

SAR	ND	0.0100	SAR	0.468				200		U
Calcium PPM	18.9	10.0	mg/L	23.9			23.5	50		
Magnesium PPM	9.13	10.0	"	11.4			22.3	50		U
Sodium PPM	8.73	10.0	"	11.1			24.0	50		U

**Batch B511223 - DTPA Sorbitol Preparation**

**Blank (B511223-BLK1)**

Prepared: 09/12/2025 Analyzed: 09/15/2025

(DTPA Sorbitol) Boron	ND	0.100	mg/L wet							U
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**Duplicate (B511223-DUP1)**

**Source: E5I0267-01**

Prepared: 09/12/2025 Analyzed: 09/15/2025

(DTPA Sorbitol) Boron	0.643	0.123	mg/L dry	0.647			0.634	50		
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Kayla Kenyon For Jen Pellegrini, Project Manager



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Jeremy Espinoza  
 Project Number: 09A1417840  
 Project: KMG - Madrigal 02-22 Facility

**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 B511238 - EPA 3580

**Blank (B511238-BLK1)**

Prepared: 09/12/2025 Analyzed: 09/15/2025

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

Surrogate: Fluorene-d10	210		ug/kg	200	104	60-130
Surrogate: Anthracene-d10	200		"	200	101	60-130
Surrogate: Pyrene-d10	200		"	200	98.0	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200	99.2	60-130

**LCS (B511238-BS1)**

Prepared: 09/12/2025 Analyzed: 09/15/2025

1-Methylnaphthalene	0.208	0.002	mg/kg wet	0.200	104	70-130
2-Methylnaphthalene	0.207	0.002	"	0.200	104	70-130
Acenaphthene	0.231	0.020	"	0.200	115	70-130
Anthracene	0.214	0.020	"	0.200	107	70-130
Benzo (a) anthracene	0.224	0.005	"	0.200	112	70-130
Benzo (a) pyrene	0.206	0.020	"	0.200	103	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 B511238 - EPA 3580**

**LCS (B511238-BS1)**

Prepared: 09/12/2025 Analyzed: 09/15/2025

Benzo (b) fluoranthene	0.219	0.020	mg/kg wet	0.200		109	70-130			
Benzo (k) fluoranthene	0.225	0.020	"	0.200		113	70-130			
Chrysene	0.228	0.020	"	0.200		114	70-130			
Dibenz (a,h) anthracene	0.205	0.020	"	0.200		102	70-130			
Fluoranthene	0.228	0.020	"	0.200		114	70-130			
Fluorene	0.231	0.020	"	0.200		115	70-130			
Indeno (1,2,3-cd) pyrene	0.227	0.020	"	0.200		113	70-130			
Naphthalene	0.218	0.002	"	0.200		109	70-130			
Pyrene	0.220	0.020	"	0.200		110	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	200		"	200		98.8	60-130			
Surrogate: Pyrene-d10	200		"	200		99.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.4	60-130			

**Matrix Spike (B511238-MS1)**

**Source: E510253-01**

Prepared: 09/12/2025 Analyzed: 09/15/2025

1-Methylnaphthalene	0.247	0.002	mg/kg dry	0.237	ND	104	70-130			
2-Methylnaphthalene	0.243	0.002	"	0.237	ND	103	70-130			
Acenaphthene	0.273	0.024	"	0.237	0.0003	115	70-130			
Anthracene	0.257	0.024	"	0.237	0.001	108	70-130			
Benzo (a) anthracene	0.266	0.006	"	0.237	0.006	110	70-130			
Benzo (a) pyrene	0.248	0.024	"	0.237	0.011	100	70-130			
Benzo (b) fluoranthene	0.263	0.024	"	0.237	0.008	108	70-130			
Benzo (k) fluoranthene	0.278	0.024	"	0.237	0.004	116	70-130			
Chrysene	0.279	0.024	"	0.237	0.010	114	70-130			
Dibenz (a,h) anthracene	0.248	0.024	"	0.237	0.004	103	70-130			
Fluoranthene	0.273	0.024	"	0.237	0.010	111	70-130			
Fluorene	0.274	0.024	"	0.237	0.0003	116	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 B511238 - EPA 3580**

<b>Matrix Spike (B511238-MS1)</b>		<b>Source: E5I0253-01</b>			<b>Prepared: 09/12/2025 Analyzed: 09/15/2025</b>					
Indeno (1,2,3-cd) pyrene	0.268	0.024	mg/kg dry	0.237	0.007	110	70-130			
Naphthalene	0.250	0.002	"	0.237	ND	106	70-130			
Pyrene	0.276	0.024	"	0.237	0.012	112	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	200		"	200		98.6	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.1	60-130			

<b>Matrix Spike Dup (B511238-MSD1)</b>		<b>Source: E5I0253-01</b>			<b>Prepared: 09/12/2025 Analyzed: 09/15/2025</b>					
1-Methylnaphthalene	0.254	0.002	mg/kg dry	0.237	ND	107	70-130	2.75	20	
2-Methylnaphthalene	0.251	0.002	"	0.237	ND	106	70-130	3.48	20	
Acenaphthene	0.282	0.024	"	0.237	0.0003	119	70-130	3.21	20	
Anthracene	0.262	0.024	"	0.237	0.001	110	70-130	1.75	20	
Benzo (a) anthracene	0.272	0.006	"	0.237	0.006	112	70-130	2.42	20	
Benzo (a) pyrene	0.259	0.024	"	0.237	0.011	105	70-130	4.26	20	
Benzo (b) fluoranthene	0.278	0.024	"	0.237	0.008	114	70-130	5.68	20	
Benzo (k) fluoranthene	0.258	0.024	"	0.237	0.004	107	70-130	7.40	20	
Chrysene	0.287	0.024	"	0.237	0.010	117	70-130	2.77	20	
Dibenz (a,h) anthracene	0.249	0.024	"	0.237	0.004	103	70-130	0.468	20	
Fluoranthene	0.291	0.024	"	0.237	0.010	119	70-130	6.41	20	
Fluorene	0.286	0.024	"	0.237	0.0003	121	70-130	4.09	20	
Indeno (1,2,3-cd) pyrene	0.268	0.024	"	0.237	0.007	110	70-130	0.190	20	
Naphthalene	0.257	0.002	"	0.237	ND	109	70-130	2.59	20	
Pyrene	0.283	0.024	"	0.237	0.012	115	70-130	2.41	20	
Surrogate: Fluorene-d10	210		ug/kg	200		106	60-130			
Surrogate: Anthracene-d10	200		"	200		97.5	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			

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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 B511238 - EPA 3580

Matrix Spike Dup (B511238-MSD1)

Source: E5I0253-01

Prepared: 09/12/2025 Analyzed: 09/15/2025

Surrogate: Benzo (a) pyrene-d12	200		ug/kg	200	98.8		60-130			
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Kayla Kenyon For Jen Pellegrini, Project Manager



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

Jeremy Espinoza  
 Project Number: 09A1417840  
 Project: KMG - Madrigal 02-22 Facility

**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 B511501 - EPA 3550B**

**Blank (B511501-BLK1)**

Prepared: 09/15/2025 Analyzed: 09/15/2025

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

Surrogate: o-Terphenyl

18 " 24.9 72.9 50-150

**LCS (B511501-BS1)**

Prepared: 09/15/2025 Analyzed: 09/15/2025

Diesel (C10-C28)	1010	50.0	mg/kg wet	1000		101	70-130			
Residual Range Organics (C28-C36)	1130	200	"	1000		113	70-130			

Surrogate: o-Terphenyl

48 " 49.8 96.4 50-150

**Matrix Spike (B511501-MS1)**

**Source: E510280-01**

Prepared: 09/15/2025 Analyzed: 09/15/2025

Diesel (C10-C28)	1490	50.0	mg/kg wet	1000	335	115	70-130			
Residual Range Organics (C28-C36)	1450	200	"	1000	178	127	70-130			

Surrogate: o-Terphenyl

54 " 49.8 108 50-150

**Matrix Spike Dup (B511501-MSD1)**

**Source: E510280-01**

Prepared: 09/15/2025 Analyzed: 09/15/2025

Diesel (C10-C28)	1440	50.0	mg/kg wet	1000	335	111	70-130	3.03	35	
Residual Range Organics (C28-C36)	1390	200	"	1000	178	121	70-130	4.41	35	

Surrogate: o-Terphenyl

50 " 49.8 101 50-150

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Kayla Kenyon For Jen Pellegrini, Project Manager



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

Jeremy Espinoza  
 Project Number: 09A1417840  
 Project: KMG - Madrigal 02-22 Facility

**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 B511253 - EPA 3050B**

**Blank (B511253-BLK1)**

Prepared: 09/12/2025 Analyzed: 09/16/2025

Terbium (H2)	95.7		mg/kg wet				70-130			
Bismuth (H2)	93.0		"				70-130			
Arsenic	ND	0.218	"							U
Barium	ND	61.5	"							U
Cadmium	ND	0.285	"							U
Copper	ND	34.5	"							U
Lead	ND	10.5	"							U
Nickel	ND	19.5	"							U
Selenium	ND	0.184	"							U
Silver	ND	0.600	"							U
Zinc	ND	278	"							U

**LCS (B511253-BS1)**

Prepared: 09/12/2025 Analyzed: 09/16/2025

Terbium (H2)	96.8		mg/kg wet				70-130			
Bismuth (H2)	94.5		"				70-130			
Arsenic	5.59	0.218	"	5.00		112	80-120			
Barium	528	61.5	"	500		106	80-120			
Cadmium	5.47	0.285	"	5.00		109	80-120			
Copper	52.5	34.5	"	50.0		105	80-120			
Lead	5.47	10.5	"	5.00		109	80-120			U
Nickel	5.56	19.5	"	5.00		111	80-120			U
Selenium	5.18	0.184	"	5.00		104	80-120			
Silver	5.45	0.600	"	5.00		109	80-120			
Zinc	58.4	278	"	50.0		117	80-120			U

**Matrix Spike (B511253-MS1)**

Source: E510268-10

Prepared: 09/12/2025 Analyzed: 09/16/2025

Terbium (H2)	90.6		mg/kg dry		87.0		70-130			
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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 B5I1253 - EPA 3050B

**Matrix Spike (B5I1253-MS1)**

Source: E5I0268-10

Prepared: 09/12/2025 Analyzed: 09/16/2025

Bismuth (H2)	89.1		mg/kg dry		84.7		70-130			
Arsenic	7.43	0.208	"	4.77	1.88	116	75-125			
Barium	602	58.7	"	477	43.1	117	75-125			
Cadmium	5.55	0.272	"	4.77	0.0513	115	75-125			
Copper	54.9	32.9	"	47.7	3.73	107	75-125			
Lead	9.78	10.0	"	4.77	3.78	126	75-125			QM-07, U
Nickel	9.02	18.6	"	4.77	4.58	93.2	75-125			U
Selenium	5.37	0.176	"	4.77	0.0705	111	75-125			
Silver	5.59	0.572	"	4.77	0.0211	117	75-125			
Zinc	72.0	265	"	47.7	14.9	120	75-125			U

**Matrix Spike Dup (B5I1253-MSD1)**

Source: E5I0268-10

Prepared: 09/12/2025 Analyzed: 09/16/2025

Bismuth (H2)	80.9		mg/kg dry		84.7		70-130	9.58		
Terbium (H2)	83.6		"		87.0		70-130	8.11		
Arsenic	7.32	0.190	"	4.35	1.88	125	75-125	1.42	20	
Barium	522	53.5	"	435	43.1	110	75-125	14.2	20	
Cadmium	4.88	0.248	"	4.35	0.0513	111	75-125	12.9	20	
Copper	49.8	30.0	"	43.5	3.73	106	75-125	9.67	20	
Lead	8.77	9.14	"	4.35	3.78	115	75-125	10.8	20	U
Nickel	8.62	17.0	"	4.35	4.58	92.9	75-125	4.58	20	U
Selenium	4.75	0.161	"	4.35	0.0705	108	75-125	12.2	20	
Silver	4.94	0.522	"	4.35	0.0211	113	75-125	12.4	20	
Zinc	65.4	242	"	43.5	14.9	116	75-125	9.67	20	U

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**Saturated Paste - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B511228 - Saturated Paste pH/EC**

**Blank (B511228-BLK1)**

Prepared: 09/12/2025 Analyzed: 09/15/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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**Duplicate (B511228-DUP1)**

**Source: E5I0270-01**

Prepared: 09/12/2025 Analyzed: 09/15/2025

pH	6.90		pH Units		6.84		0.873		25	
Specific Conductance (EC)	0.407	0.00500	mmhos/cm		0.389		4.40		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 B511251 - EPA 5030 (soil)**

Prepared: 09/12/2025 Analyzed: 09/12/2025

**Blank (B511251-BLK1)**

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

Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	102		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	95.4		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	103		70-130			

**LCS (B511251-BS1)**

Prepared: 09/12/2025 Analyzed: 09/12/2025

1,2,4-Trimethylbenzene	0.110	0.002	mg/kg wet				70-130			
1,3,5-Trimethylbenzene	0.109	0.002	"				70-130			
Benzene	0.096	0.002	"				70-130			
Ethylbenzene	0.112	0.002	"				70-130			
Toluene	0.100	0.002	"				70-130			
o-Xylene	0.109	0.002	"				70-130			
m,p-Xylene	0.223	0.004	"				70-130			

Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	105		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	95.6		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	101		70-130			

**Matrix Spike (B511251-MS1)**

Source: E510277-01

Prepared: 09/12/2025 Analyzed: 09/12/2025

1,2,4-Trimethylbenzene	0.127	0.002	mg/kg dry		ND		70-130			
1,3,5-Trimethylbenzene	0.125	0.002	"		ND		70-130			
Benzene	0.110	0.002	"		ND		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 B511251 - EPA 5030 (soil)

**Matrix Spike (B511251-MS1)**

Source: E510277-01

Prepared: 09/12/2025 Analyzed: 09/12/2025

Ethylbenzene	0.129	0.002	mg/kg dry		ND		70-130			
Toluene	0.115	0.002	"		ND		70-130			
o-Xylene	0.127	0.002	"		ND		70-130			
m,p-Xylene	0.257	0.004	"		ND		70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.133		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.133		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.133		102	70-130			

**Matrix Spike Dup (B511251-MSD1)**

Source: E510277-01

Prepared: 09/12/2025 Analyzed: 09/12/2025

1,2,4-Trimethylbenzene	0.117	0.002	mg/kg dry		ND		70-130	7.95	20	
1,3,5-Trimethylbenzene	0.115	0.002	"		ND		70-130	8.27	20	
Benzene	0.103	0.002	"		ND		70-130	6.79	20	
Ethylbenzene	0.118	0.002	"		ND		70-130	8.27	20	
Toluene	0.107	0.002	"		ND		70-130	7.07	20	
o-Xylene	0.117	0.002	"		ND		70-130	8.12	20	
m,p-Xylene	0.236	0.004	"		ND		70-130	8.57	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.133		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.133		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.133		102	70-130			

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**Total Metals by 7199 - Quality Control  
 Enthalpy Orange**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 382703 - EPA 3060A</b>										
<b>BLANK (QC1296311)</b>										
					Prepared: 09/23/2025 Analyzed: 09/24/2025					
Hexavalent Chromium	ND	0.30	mg/Kg							ND
<b>LCS (QC1296312)</b>										
					Prepared: 09/23/2025 Analyzed: 09/24/2025					
Hexavalent Chromium	39.31	0.6000	mg/Kg	40.00		98	80-120			
<b>Duplicate (QC1296313)</b>										
					Source: 542169-001 Prepared: 09/23/2025 Analyzed: 09/24/2025					
Hexavalent Chromium	ND	0.3056	mg/Kg dry		0				30	ND
<b>Matrix Spike (QC1296315)</b>										
					Source: 542169-001 Prepared: 09/23/2025 Analyzed: 09/24/2025					
Hexavalent Chromium	40.21	0.6161	mg/Kg dry	41.07	0	98	70-130			

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**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.
- O-02 Due to matrix interference, the sample cannot be accurately quantitated. The reported result is qualitative.
- ND Not Detected
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

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