



**Eagle Environmental Consulting, LLC**

**September 10, 2025**

**Dan Coloccia**

**8000 W 44th Ave**

**Wheat Ridge CO 80033**

**Project Name - Mystique - Shirley Rother 1**

**Project Number - [none]**

Attached are your analytical results for Mystique - Shirley Rother 1 received by Origins Laboratory August 21, 2025. This project is associated with Origins project number E5H0498-01.

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: Mystique - Shirley Rother 1

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@6'	E5H0498-01	Soil	August 20, 2025 13:20	08/21/2025 09:40
FL-B01@4'	E5H0498-02	Soil	August 20, 2025 12:30	08/21/2025 09:40
BG-01@3'	E5H0498-03	Soil	August 20, 2025 12:10	08/21/2025 09:40
BG-01@6'	E5H0498-04	Soil	August 20, 2025 12:20	08/21/2025 09:40
BG-02@3'	E5H0498-05	Soil	August 20, 2025 14:15	08/21/2025 09:40
BG-02@6'	E5H0498-06	Soil	August 20, 2025 14:25	08/21/2025 09:40

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

Dan Coloccia  
Project Number: [none]  
Project: Mystique - Shirley Rother 1

**ORIGINS**  
LABORATORY

ESTH0498

Page 1 of 1

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis						Comments	
						PULGALS	BARON	pH	SC	SAR	915 METEOR		
1	W-10-01	8/21/15	12:00	3	WHP	X							
2	W-10-02	8/21/15	12:00	3	WHP	X							
3	W-10-03	8/21/15	12:00	3	WHP	X							
4	W-10-04	8/21/15	12:00	3	WHP	X							
5	W-10-05	8/21/15	12:00	3	WHP	X							
6	W-10-06	8/21/15	12:00	3	WHP	X							
7	W-10-07	8/21/15	12:00	3	WHP	X							
8	W-10-08	8/21/15	12:00	3	WHP	X							
9	W-10-09	8/21/15	12:00	3	WHP	X							
10	W-10-10	8/21/15	12:00	3	WHP	X							

Requisitioned By: [Signature] Date: 8-21-15 Time: 9:40

Received By: NLH Date: 08/21/15 Time: 09:40

Turnaround Time:  48 Hr  72 Hr  SAME DAY  24 Hr

Temp Received - 02°C Received On Ice?  Yes  No

Client: Eagle Environmental Consulting  
Address: 8000 W 44th Ave  
Telephone Number: 303-455-0199  
Email Address: Michelle.Cole@eagleenv.com

Project Manager: [Signature]  
Project Name: Mystique  
Project Number: [None]  
Collected By: SLB  
Invoicing Billing Info: Bills Monthly

W=Water   
GW=Groundwater   
SW=Surface Water   
WW=Wastewater   
L=Liquid

Origins Laboratory  
[Signature]

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Origins Laboratory

### Sample Receipt Checklist

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

Origins Work Order: ESH0498

Client: Eagle

Client Project ID: Shirley Rother

Checklist Completed by: EHO/MS

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

Date/time completed: 8/12/15

Airbill #: N/A

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

Cooler Number/Temperature: 1 10.2 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 1007

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> ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (If so, document in comments if they are signed and dated, broken or intact)			X	
Are custody seals present on each sample container? (If so, document in comments if they are signed and dated, broken or intact)			X	
Were all samples received intact <sup>(1)</sup> ?	X			
Was adequate sample volume provided <sup>(1)</sup> ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?			X	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	X			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	X			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	X			
For volatiles in water – Is there headspace (> ½ inch bubble) present? If yes, contact client and note in narrative.			X	
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 HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaOH, Na2CO3, NaOH, ZnAc+NaOH)			X	
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)

08/12/15  
Date/Time Reviewed

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EHO

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: Mystique - Shirley Rother 1

**WH-B01@6'**  
**8/20/2025 1:20:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0498-01 (Soil)</b>									
<b>Enthalpy Orange</b>									
<b>Total Metals by 7199</b>									
Hexavalent Chromium	ND	0.19	0.37	mg/Kg dry	1	380682	08/29/2025	09/02/2025	ND
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
(DTPA Sorbitol) Boron	0.323		0.122	mg/L dry	1	B5H2207	08/22/2025	08/26/2025	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		30.8	mg/kg dry	1	B5H2219	08/22/2025	08/26/2025	U
Residual Range Organics (C28-C36)	ND		123	"	"	"	"	"	U
Surrogate: o-Terphenyl	70.6 %			50-150		"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B5H2512	08/25/2025	08/27/2025	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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**WH-B01@6'**  
**8/20/2025 1:20:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0498-01 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>GBTEX+TMBs by 8260D</b>									
Gasoline Range Hydrocarbons	ND		0.246	mg/kg dry	1	B5H2512	08/25/2025	08/27/2025	U
Surrogate: 1,2-Dichloroethane-d4	107 %			70-130		"	"	"	
Surrogate: Toluene-d8	104 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %			70-130		"	"	"	
<b>Metals by Saturated Paste by EPA 6010</b>									
Calcium	5.93		0.499	meq/L	10	[CALC]	08/22/2025	08/25/2025	
Magnesium	1.89		0.823	"	"	"	"	"	
Sodium	7.34		0.435	"	"	"	"	"	
<b>PAH by EPA 8270E extracted via 3580A</b>									
1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B5H2501	08/25/2025	08/26/2025	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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**WH-B01@6'**  
**8/20/2025 1:20:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0498-01 (Soil)**  
**Origins Laboratory**

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

Chrysene	ND		0.025	mg/kg dry	1	B5H2501	08/25/2025	08/26/2025	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	101 %			60-130		"	"	"	
Surrogate: Anthracene-d10	97.6 %			60-130		"	"	"	
Surrogate: Pyrene-d10	94.9 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	105 %			60-130		"	"	"	

**Percent Solids**

Total Solids, Percent	81.2			mass percent	1	B5I0316	09/03/2025	09/08/2025	
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**pH in Soil by 9045D**

pH	8.17			pH Units	1	B5H2213	08/22/2025	08/23/2025	
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**SAR by 20B Saturated Paste**

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**WH-B01@6'**  
**8/20/2025 1:20:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0498-01 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>SAR by 20B Saturated Paste</b>									
SAR	3.71		0.0100	SAR	1	B5H2209	08/22/2025	08/25/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	1.77		0.00500	mmhos/cm	1	B5H2213	08/22/2025	08/23/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	6.59		0.243	mg/kg dry	10	B5H2547	08/25/2025	09/02/2025	
Barium	485		68.7	"	"	"	"	"	
Cadmium	ND		0.318	"	"	"	"	"	U
Copper	ND		38.5	"	"	"	"	"	U
Lead	12.5		11.7	"	"	"	"	"	
Nickel	ND		21.8	"	"	"	"	"	U
Selenium	ND		0.206	"	"	"	"	"	U
Silver	ND		0.670	"	"	"	"	"	U
Zinc	ND		310	"	"	"	"	"	U

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FL-B01@4'

8/20/2025 12:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0498-02 (Soil)</b>									
<b>Enthalpy Orange</b>									
<b>Total Metals by 7199</b>									
Hexavalent Chromium	ND	0.18	0.34	mg/Kg dry	1	380682	08/29/2025	09/02/2025	ND
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
(DTPA Sorbitol) Boron	0.232		0.117	mg/L dry	1	B5H2207	08/22/2025	08/26/2025	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		29.3	mg/kg dry	1	B5H2219	08/22/2025	08/26/2025	U
Residual Range Organics (C28-C36)	ND		117	"	"	"	"	"	U
Surrogate: o-Terphenyl	97.5 %			50-150		"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B5H2512	08/25/2025	08/27/2025	U
1,3,5-Trimethylbenzene	ND		0.002	"	"	"	"	"	U
Benzene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Toluene	0.006		0.002	"	"	"	"	"	
Xylenes, total	ND		0.002	"	"	"	"	"	U

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FL-B01@4'

8/20/2025 12:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0498-02 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>GBTEX+TMBs by 8260D</b>									
Gasoline Range Hydrocarbons	ND		0.235	mg/kg dry	1	B5H2512	08/25/2025	08/27/2025	U
Surrogate: 1,2-Dichloroethane-d4	110 %			70-130		"	"	"	
Surrogate: Toluene-d8	100 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %			70-130		"	"	"	
<b>Metals by Saturated Paste by EPA 6010</b>									
Calcium	7.95		0.499	meq/L	10	[CALC]	08/22/2025	08/25/2025	
Magnesium	2.73		0.823	"	"	"	"	"	
Sodium	2.51		0.435	"	"	"	"	"	
<b>PAH by EPA 8270E extracted via 3580A</b>									
1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B5H2501	08/25/2025	08/26/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.023	"	"	"	"	"	U
Anthracene	ND		0.023	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.023	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.023	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.023	"	"	"	"	"	U

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FL-B01@4'

8/20/2025 12:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0498-02 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>PAH by EPA 8270E extracted via 3580A</b>									
Chrysene	ND		0.023	mg/kg dry	1	B5H2501	08/25/2025	08/26/2025	U
Dibenz (a,h) anthracene	ND		0.023	"	"	"	"	"	U
Fluoranthene	ND		0.023	"	"	"	"	"	U
Fluorene	ND		0.023	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.023	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.023	"	"	"	"	"	U
Surrogate: Fluorene-d10	101 %			60-130		"	"	"	
Surrogate: Anthracene-d10	96.5 %			60-130		"	"	"	
Surrogate: Pyrene-d10	95.8 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %			60-130		"	"	"	
<b>Percent Solids</b>									
Total Solids, Percent	85.3			mass percent	1	B5I0316	09/03/2025	09/08/2025	
<b>pH in Soil by 9045D</b>									
pH	8.14			pH Units	1	B5H2213	08/22/2025	08/23/2025	
<b>SAR by 20B Saturated Paste</b>									

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**FL-B01@4'**

**8/20/2025 12:30:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0498-02 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>SAR by 20B Saturated Paste</b>									
SAR	1.09		0.0100	SAR	1	B5H2209	08/22/2025	08/25/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	1.57		0.00500	mmhos/cm	1	B5H2213	08/22/2025	08/23/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	6.51		0.244	mg/kg dry	10	B5H2547	08/25/2025	09/02/2025	
Barium	246		68.7	"	"	"	"	"	
Cadmium	ND		0.318	"	"	"	"	"	U
Copper	ND		38.5	"	"	"	"	"	U
Lead	13.5		11.7	"	"	"	"	"	
Nickel	ND		21.8	"	"	"	"	"	U
Selenium	0.241		0.206	"	"	"	"	"	
Silver	ND		0.670	"	"	"	"	"	U
Zinc	ND		310	"	"	"	"	"	U

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**BG-01@3'**

**8/20/2025 12:10:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0498-03 (Soil)</b>									
<b>Enthalpy Orange</b>									
<b>Total Metals by 7199</b>									
Hexavalent Chromium	ND	0.18	0.33	mg/Kg dry	1	380682	08/29/2025	09/02/2025	ND
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
(DTPA Sorbitol) Boron	0.338		0.113	mg/L dry	1	B5H2207	08/22/2025	08/26/2025	
<b>Metals by Saturated Paste by EPA 6010</b>									
Calcium	2.23		0.499	meq/L	10	[CALC]	08/22/2025	08/25/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.10		0.435	"	"	"	"	"	
<b>Percent Solids</b>									
Total Solids, Percent	87.6			mass percent	1	B5I0316	09/03/2025	09/08/2025	
<b>pH in Soil by 9045D</b>									
pH	8.38			pH Units	1	B5H2213	08/22/2025	08/23/2025	
<b>SAR by 20B Saturated Paste</b>									
SAR	0.921		0.0100	SAR	1	B5H2209	08/22/2025	08/25/2025	

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**BG-01@3'**

**8/20/2025 12:10:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0498-03 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.472		0.00500	mmhos/cm	1	B5H2213	08/22/2025	08/23/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	6.57		0.227	mg/kg dry	10	B5H2547	08/25/2025	09/02/2025	
Barium	293		64.1	"	"	"	"	"	
Cadmium	0.315		0.297	"	"	"	"	"	
Copper	ND		35.9	"	"	"	"	"	U
Lead	13.2		10.9	"	"	"	"	"	
Nickel	ND		20.3	"	"	"	"	"	U
Selenium	0.244		0.192	"	"	"	"	"	
Silver	ND		0.625	"	"	"	"	"	U
Zinc	ND		289	"	"	"	"	"	U

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 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: Mystique - Shirley Rother 1

**BG-01@6'**

**8/20/2025 12:20:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0498-04 (Soil)  
 Enthalpy Orange**

**Total Metals by 7199**

Hexavalent Chromium	ND	0.18	0.34	mg/Kg dry	1	380682	08/29/2025	09/02/2025	ND
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**Origins Laboratory**

**Boron (DTPA Sorbitol)**

(DTPA Sorbitol) Boron	0.198		0.114	mg/L dry	1	B5H2207	08/22/2025	08/26/2025	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.91		0.499	meq/L	10	[CALC]	08/22/2025	08/25/2025	
Magnesium	1.26		0.823	"	"	"	"	"	"
Sodium	0.963		0.435	"	"	"	"	"	"

**Percent Solids**

Total Solids, Percent	87.5			mass percent	1	B5I0316	09/03/2025	09/08/2025	
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**pH in Soil by 9045D**

pH	8.42			pH Units	1	B5H2213	08/22/2025	08/23/2025	
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**SAR by 20B Saturated Paste**

SAR	0.765		0.0100	SAR	1	B5H2209	08/22/2025	08/25/2025	
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Dan Coloccia  
 Project Number: [none]  
 Project: Mystique - Shirley Rother 1

**BG-01@6'**  
**8/20/2025 12:20:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0498-04 (Soil)**  
**Origins Laboratory**

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.518		0.00500	mmhos/cm	1	B5H2213	08/22/2025	08/23/2025	
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**Table 915 metals by EPA 6020B**

Arsenic	6.30		0.234	mg/kg dry	10	B5H2547	08/25/2025	09/02/2025	
Barium	393		66.1	"	"	"	"	"	
Cadmium	ND		0.306	"	"	"	"	"	U
Copper	ND		37.1	"	"	"	"	"	U
Lead	11.7		11.3	"	"	"	"	"	
Nickel	ND		21.0	"	"	"	"	"	U
Selenium	ND		0.198	"	"	"	"	"	U
Silver	ND		0.645	"	"	"	"	"	U
Zinc	ND		298	"	"	"	"	"	U

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**BG-02@3'**

**8/20/2025 2:15:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0498-05 (Soil)  
 Enthalpy Orange**

**Total Metals by 7199**

Hexavalent Chromium	ND	0.17	0.33	mg/Kg dry	1	380682	08/29/2025	09/02/2025	ND
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**Origins Laboratory**

**Boron (DTPA Sorbitol)**

(DTPA Sorbitol) Boron	0.400		0.111	mg/L dry	1	B5H2207	08/22/2025	08/26/2025	
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**Metals by Saturated Paste by EPA 6010**

Calcium	12.8		0.499	meq/L	10	[CALC]	08/22/2025	08/25/2025	
Magnesium	6.09		0.823	"	"	"	"	"	"
Sodium	6.46		0.435	"	"	"	"	"	"

**Percent Solids**

Total Solids, Percent	89.0			mass percent	1	B5I0316	09/03/2025	09/08/2025	
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**pH in Soil by 9045D**

pH	8.11			pH Units	1	B5H2213	08/22/2025	08/23/2025	
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**SAR by 20B Saturated Paste**

SAR	2.10		0.0100	SAR	1	B5H2209	08/22/2025	08/25/2025	
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 Project: Mystique - Shirley Rother 1

**BG-02@3'**  
**8/20/2025 2:15:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0498-05 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	2.59		0.00500	mmhos/cm	1	B5H2213	08/22/2025	08/23/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	6.55		0.235	mg/kg dry	10	B5H2547	08/25/2025	09/02/2025	
Barium	267		66.3	"	"	"	"	"	
Cadmium	ND		0.307	"	"	"	"	"	U
Copper	ND		37.2	"	"	"	"	"	U
Lead	13.1		11.3	"	"	"	"	"	
Nickel	ND		21.0	"	"	"	"	"	U
Selenium	0.227		0.199	"	"	"	"	"	
Silver	ND		0.647	"	"	"	"	"	U
Zinc	ND		299	"	"	"	"	"	U

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**BG-02@6'**

**8/20/2025 2:25:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0498-06 (Soil)  
 Enthalpy Orange**

**Total Metals by 7199**

Hexavalent Chromium	ND	0.18	0.35	mg/Kg dry	1	380682	08/29/2025	09/02/2025	ND
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**Origins Laboratory**

**Boron (DTPA Sorbitol)**

(DTPA Sorbitol) Boron	0.219		0.120	mg/L dry	1	B5H2207	08/22/2025	08/26/2025	
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**Metals by Saturated Paste by EPA 6010**

Calcium	5.68		0.499	meq/L	10	[CALC]	08/22/2025	08/25/2025	
Magnesium	4.16		0.823	"	"	"	"	"	"
Sodium	3.62		0.435	"	"	"	"	"	"

**Percent Solids**

Total Solids, Percent	83.0			mass percent	1	B5I0316	09/03/2025	09/08/2025	
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**pH in Soil by 9045D**

pH	8.19			pH Units	1	B5H2213	08/22/2025	08/23/2025	
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**SAR by 20B Saturated Paste**

SAR	1.63		0.0100	SAR	1	B5H2209	08/22/2025	08/25/2025	
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 Project: Mystique - Shirley Rother 1

**BG-02@6'**  
**8/20/2025 2:25:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0498-06 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	1.63		0.00500	mmhos/cm	1	B5H2213	08/22/2025	08/23/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	6.84		0.236	mg/kg dry	10	B5H2547	08/25/2025	09/02/2025	
Barium	291		66.6	"	"	"	"	"	
Cadmium	ND		0.308	"	"	"	"	"	U
Copper	ND		37.3	"	"	"	"	"	U
Lead	12.2		11.4	"	"	"	"	"	
Nickel	ND		21.1	"	"	"	"	"	U
Selenium	ND		0.200	"	"	"	"	"	U
Silver	ND		0.649	"	"	"	"	"	U
Zinc	ND		300	"	"	"	"	"	U

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 Project: Mystique - Shirley Rother 1

**\*\*\* DEFAULT GENERAL METHOD \*\*\* - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5I0316 - % Solids**

**Duplicate (B5I0316-DUP1)**

**Source: E5H0462-07**

Prepared: 09/03/2025 Analyzed: 09/08/2025

Total Solids, Percent	95.5		mass percent		95.7			0.241	20	
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**Duplicate (B5I0316-DUP2)**

**Source: E5H0462-08**

Prepared: 09/03/2025 Analyzed: 09/08/2025

Total Solids, Percent	97.9		mass percent		97.9			0.0453	20	
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 Project: Mystique - Shirley Rother 1

**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 B5H2207 - DTPA Sorbitol Preparation**

**Blank (B5H2207-BLK1)**

Prepared: 08/22/2025 Analyzed: 08/26/2025

(DTPA Sorbitol) Boron ND 0.100 mg/L wet U

**Duplicate (B5H2207-DUP1)**

**Source: E5H0474-01**

Prepared: 08/22/2025 Analyzed: 08/26/2025

(DTPA Sorbitol) Boron 0.0754 0.107 mg/L dry 0.0685 9.64 50 U

**Batch B5H2209 - Saturated Paste Metals**

**Blank (B5H2209-BLK1)**

Prepared: 08/22/2025 Analyzed: 08/25/2025

SAR ND 0.0100 SAR U

Calcium PPM ND 10.0 mg/L U

Magnesium PPM ND 10.0 " U

Sodium PPM ND 10.0 " U

**Duplicate (B5H2209-DUP1)**

**Source: E5H0495-03**

Prepared: 08/22/2025 Analyzed: 08/25/2025

Calcium PPM 20.0 10.0 mg/L 41.2 69.1 50 QR-DUP

SAR ND 0.0100 SAR 8.14 200 U

Magnesium PPM 13.9 10.0 mg/L 22.1 45.6 50

Sodium PPM 262 10.0 " 260 0.712 50

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 Project: Mystique - Shirley Rother 1

**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 B5H2501 - EPA 3580**

**Blank (B5H2501-BLK1)**

Prepared: 08/25/2025 Analyzed: 08/25/2025

1-Methylnaphthalene	ND	0.002	mg/kg wet							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Acenaphthylene	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	96.8	60-130
Surrogate: Pyrene-d10	200		"	200	97.9	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200	102	60-130

**LCS (B5H2501-BS1)**

Prepared: 08/25/2025 Analyzed: 08/25/2025

1-Methylnaphthalene	0.202	0.002	mg/kg wet	0.200	101	70-130
2-Methylnaphthalene	0.222	0.002	"	0.200	111	70-130
Acenaphthene	0.192	0.020	"	0.200	96.1	70-130

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Dan Coloccia  
 Project Number: [none]  
 Project: Mystique - Shirley Rother 1

**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 B5H2501 - EPA 3580**

**LCS (B5H2501-BS1)**

Prepared: 08/25/2025 Analyzed: 08/25/2025

Acenaphthylene	0.190	0.020	mg/kg wet	0.200		94.8	70-130			
Anthracene	0.181	0.020	"	0.200		90.3	70-130			
Benzo (a) anthracene	0.184	0.005	"	0.200		92.2	70-130			
Benzo (a) pyrene	0.203	0.020	"	0.200		102	70-130			
Benzo (b) fluoranthene	0.211	0.020	"	0.200		106	70-130			
Benzo (g,h,i) perylene	0.198	0.020	"	0.200		99.2	70-130			
Benzo (k) fluoranthene	0.197	0.020	"	0.200		98.6	70-130			
Chrysene	0.193	0.020	"	0.200		96.5	70-130			
Dibenz (a,h) anthracene	0.198	0.020	"	0.200		98.8	70-130			
Fluoranthene	0.190	0.020	"	0.200		94.9	70-130			
Fluorene	0.189	0.020	"	0.200		94.4	70-130			
Indeno (1,2,3-cd) pyrene	0.203	0.020	"	0.200		102	70-130			
Naphthalene	0.192	0.002	"	0.200		96.0	70-130			
Phenanthrene	0.186	0.020	"	0.200		92.9	70-130			
Pyrene	0.189	0.020	"	0.200		94.5	70-130			

Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	190		"	200		96.7	60-130			
Surrogate: Pyrene-d10	190		"	200		96.8	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

**Matrix Spike (B5H2501-MS1)**

**Source: E5H0470-06**

Prepared: 08/25/2025 Analyzed: 08/25/2025

1-Methylnaphthalene	0.221	0.002	mg/kg dry	0.223	ND	98.9	70-130			
2-Methylnaphthalene	0.241	0.002	"	0.223	ND	108	70-130			
Acenaphthene	0.213	0.022	"	0.223	ND	95.3	70-130			
Acenaphthylene	0.212	0.022	"	0.223	ND	94.8	70-130			
Anthracene	0.214	0.022	"	0.223	ND	95.9	70-130			
Benzo (a) anthracene	0.200	0.006	"	0.223	ND	89.6	70-130			

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 Project Number: [none]  
 Project: Mystique - Shirley Rother 1

**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 B5H2501 - EPA 3580**

**Matrix Spike (B5H2501-MS1)**

**Source: E5H0470-06**

Prepared: 08/25/2025 Analyzed: 08/25/2025

Benzo (a) pyrene	0.239	0.022	mg/kg dry	0.223	0.002	106	70-130			
Benzo (b) fluoranthene	0.249	0.022	"	0.223	0.0008	111	70-130			
Benzo (g,h,i) perylene	0.228	0.022	"	0.223	0.001	101	70-130			
Benzo (k) fluoranthene	0.227	0.022	"	0.223	ND	102	70-130			
Chrysene	0.206	0.022	"	0.223	0.001	91.6	70-130			
Dibenz (a,h) anthracene	0.228	0.022	"	0.223	0.001	102	70-130			
Fluoranthene	0.214	0.022	"	0.223	ND	95.8	70-130			
Fluorene	0.208	0.022	"	0.223	0.0006	92.7	70-130			
Indeno (1,2,3-cd) pyrene	0.228	0.022	"	0.223	0.001	102	70-130			
Naphthalene	0.212	0.002	"	0.223	ND	94.7	70-130			
Phenanthrene	0.208	0.022	"	0.223	ND	93.2	70-130			
Pyrene	0.212	0.022	"	0.223	ND	95.0	70-130			

Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		95.6	60-130			
Surrogate: Pyrene-d10	200		"	200		98.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.8	60-130			

**Matrix Spike Dup (B5H2501-MSD1)**

**Source: E5H0470-06**

Prepared: 08/25/2025 Analyzed: 08/25/2025

1-Methylnaphthalene	0.222	0.002	mg/kg dry	0.223	ND	99.4	70-130	0.557	20	
2-Methylnaphthalene	0.241	0.002	"	0.223	ND	108	70-130	0.141	20	
Acenaphthene	0.211	0.022	"	0.223	ND	94.5	70-130	0.822	20	
Acenaphthylene	0.210	0.022	"	0.223	ND	94.0	70-130	0.811	20	
Anthracene	0.197	0.022	"	0.223	ND	88.0	70-130	8.60	20	
Benzo (a) anthracene	0.200	0.006	"	0.223	ND	89.4	70-130	0.294	20	
Benzo (a) pyrene	0.235	0.022	"	0.223	0.002	104	70-130	1.33	20	
Benzo (b) fluoranthene	0.252	0.022	"	0.223	0.0008	112	70-130	1.22	20	
Benzo (g,h,i) perylene	0.230	0.022	"	0.223	0.001	102	70-130	1.05	20	

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Dan Coloccia  
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 Project: Mystique - Shirley Rother 1

**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 B5H2501 - EPA 3580

Matrix Spike Dup (B5H2501-MSD1)

Source: E5H0470-06

Prepared: 08/25/2025 Analyzed: 08/25/2025

Benzo (k) fluoranthene	0.230	0.022	mg/kg dry	0.223	ND	103	70-130	1.40	20	
Chrysene	0.205	0.022	"	0.223	0.001	91.2	70-130	0.371	20	
Dibenz (a,h) anthracene	0.233	0.022	"	0.223	0.001	104	70-130	2.24	20	
Fluoranthene	0.211	0.022	"	0.223	ND	94.3	70-130	1.48	20	
Fluorene	0.210	0.022	"	0.223	0.0006	93.7	70-130	1.03	20	
Indeno (1,2,3-cd) pyrene	0.231	0.022	"	0.223	0.001	103	70-130	1.22	20	
Naphthalene	0.211	0.002	"	0.223	ND	94.4	70-130	0.358	20	
Phenanthrene	0.206	0.022	"	0.223	ND	92.3	70-130	0.965	20	
Pyrene	0.210	0.022	"	0.223	ND	93.8	70-130	1.29	20	
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	190		"	200		95.9	60-130			
Surrogate: Pyrene-d10	190		"	200		97.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

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 Project: Mystique - Shirley Rother 1

**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 B5H2219 - EPA 3550B**

**Blank (B5H2219-BLK1)**

Prepared: 08/22/2025 Analyzed: 08/25/2025

Diesel (C10-C28)	ND	25.0	mg/kg wet							U
Residual Range Organics (C28-C36)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		85.4	50-150			

**LCS (B5H2219-BS1)**

Prepared: 08/22/2025 Analyzed: 08/25/2025

Diesel (C10-C28)	995	50.0	mg/kg wet	1000		99.5	70-130			
Residual Range Organics (C28-C36)	1050	200	"	1000		105	70-130			
Surrogate: o-Terphenyl	46		"	49.8		91.9	50-150			

**Matrix Spike (B5H2219-MS1)**

**Source: E5H0474-01**

Prepared: 08/22/2025 Analyzed: 08/25/2025

Diesel (C10-C28)	2870	53.3	mg/kg dry	1070	1660	113	70-130			
Residual Range Organics (C28-C36)	37500	213	"	1070	39000	NR	70-130			QM-07
Surrogate: o-Terphenyl	44		"	53.0		83.7	50-150			

**Matrix Spike Dup (B5H2219-MSD1)**

**Source: E5H0474-01**

Prepared: 08/22/2025 Analyzed: 08/25/2025

Diesel (C10-C28)	3080	53.3	mg/kg dry	1070	1660	133	70-130	6.95	35	QM-07
Residual Range Organics (C28-C36)	42900	213	"	1070	39000	368	70-130	13.2	35	QM-07
Surrogate: o-Terphenyl	45		"	53.0		84.5	50-150			

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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 B5H2547 - EPA 3050B**

**Blank (B5H2547-BLK1)**

Prepared: 08/25/2025 Analyzed: 09/02/2025

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

**LCS (B5H2547-BS1)**

Prepared: 08/25/2025 Analyzed: 09/02/2025

Arsenic	5.50	0.218	mg/kg wet	5.00		110	80-120			
Barium	546	61.5	"	500		109	80-120			
Cadmium	5.58	0.285	"	5.00		112	80-120			
Copper	58.6	34.5	"	50.0		117	80-120			
Lead	5.36	10.5	"	5.00		107	80-120			U
Nickel	5.75	19.5	"	5.00		115	80-120			U
Selenium	5.16	0.184	"	5.00		103	80-120			
Silver	5.68	0.600	"	5.00		114	80-120			
Zinc	57.8	278	"	50.0		116	80-120			U

**Matrix Spike (B5H2547-MS1)**

**Source: E5H0470-06**

Prepared: 08/25/2025 Analyzed: 09/02/2025

Arsenic	6.15	0.215	mg/kg dry	4.92	1.40	96.5	75-125			
Barium	575	60.6	"	492	44.4	108	75-125			
Cadmium	5.25	0.281	"	4.92	0.0532	106	75-125			
Copper	55.6	34.0	"	49.2	3.59	106	75-125			
Lead	8.36	10.3	"	4.92	3.51	98.5	75-125			U

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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 B5H2547 - EPA 3050B

**Matrix Spike (B5H2547-MS1)**

Source: E5H0470-06

Prepared: 08/25/2025 Analyzed: 09/02/2025

Nickel	9.16	19.2	mg/kg dry	4.92	4.21	101	75-125			U
Selenium	4.84	0.182	"	4.92	0.0488	97.3	75-125			
Silver	5.32	0.591	"	4.92	0.0155	108	75-125			
Zinc	69.6	273	"	49.2	16.3	108	75-125			U

**Matrix Spike Dup (B5H2547-MSD1)**

Source: E5H0470-06

Prepared: 08/25/2025 Analyzed: 09/02/2025

Arsenic	7.19	0.235	mg/kg dry	5.39	1.40	107	75-125	15.5	20	
Barium	650	66.3	"	539	44.4	112	75-125	12.2	20	
Cadmium	6.12	0.307	"	5.39	0.0532	113	75-125	15.3	20	
Copper	67.0	37.2	"	53.9	3.59	118	75-125	18.5	20	
Lead	9.76	11.3	"	5.39	3.51	116	75-125	15.4	20	U
Nickel	10.6	21.0	"	5.39	4.21	119	75-125	15.0	20	U
Selenium	5.72	0.199	"	5.39	0.0488	105	75-125	16.6	20	
Silver	6.10	0.647	"	5.39	0.0155	113	75-125	13.6	20	
Zinc	80.1	299	"	53.9	16.3	118	75-125	14.0	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 B5H2213 - Saturated Paste pH/EC**

**Blank (B5H2213-BLK1)**

Prepared: 08/22/2025 Analyzed: 08/23/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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**Duplicate (B5H2213-DUP1)**

**Source: E5H0495-03**

Prepared: 08/22/2025 Analyzed: 08/23/2025

Specific Conductance (EC)	1.77	0.00500	mmhos/cm		1.80		1.94		25	
pH	8.53		pH Units		8.28		2.97		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 B5H2512 - EPA 5030 (soil)**

Prepared: 08/25/2025 Analyzed: 08/27/2025

**Blank (B5H2512-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	0.14		"	0.125	109		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	107		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	106		70-130			

**LCS (B5H2512-BS1)**

Prepared: 08/25/2025 Analyzed: 08/27/2025

1,2,4-Trimethylbenzene	0.106	0.002	mg/kg wet	0.100	106		70-130			
1,3,5-Trimethylbenzene	0.105	0.002	"	0.100	105		70-130			
Benzene	0.097	0.002	"	0.100	97.0		70-130			
Ethylbenzene	0.100	0.002	"	0.100	100		70-130			
Naphthalene	0.118	0.004	"	0.100	118		70-130			
Toluene	0.095	0.002	"	0.100	94.8		70-130			
o-Xylene	0.101	0.002	"	0.100	101		70-130			
m,p-Xylene	0.196	0.004	"	0.200	97.9		70-130			

Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	102		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	103		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	106		70-130			

**Matrix Spike (B5H2512-MS1)**

Source: E5H0498-01

Prepared: 08/25/2025 Analyzed: 08/27/2025

1,2,4-Trimethylbenzene	0.137	0.002	mg/kg dry	0.123	ND	111	70-130			
1,3,5-Trimethylbenzene	0.138	0.002	"	0.123	ND	112	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 B5H2512 - EPA 5030 (soil)

**Matrix Spike (B5H2512-MS1)**

Source: E5H0498-01

Prepared: 08/25/2025 Analyzed: 08/27/2025

Benzene	0.121	0.002	mg/kg dry	0.123	ND	98.2	70-130			
Ethylbenzene	0.149	0.002	"	0.123	ND	121	70-130			
Naphthalene	0.108	0.005	"	0.123	ND	87.7	70-130			
Toluene	0.122	0.002	"	0.123	0.001	97.9	70-130			
o-Xylene	0.143	0.002	"	0.123	0.0009	115	70-130			
m,p-Xylene	0.293	0.005	"	0.246	ND	119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.154		87.8	70-130			
Surrogate: Toluene-d8	0.16		"	0.154		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.16		"	0.154		107	70-130			

**Matrix Spike Dup (B5H2512-MSD1)**

Source: E5H0498-01

Prepared: 08/25/2025 Analyzed: 08/27/2025

1,2,4-Trimethylbenzene	0.127	0.002	mg/kg dry	0.123	ND	103	70-130	7.72	20	
1,3,5-Trimethylbenzene	0.128	0.002	"	0.123	ND	104	70-130	7.76	20	
Benzene	0.111	0.002	"	0.123	ND	90.1	70-130	8.54	20	
Ethylbenzene	0.123	0.002	"	0.123	ND	99.7	70-130	19.0	20	
Naphthalene	0.121	0.005	"	0.123	ND	98.0	70-130	11.1	20	
Toluene	0.109	0.002	"	0.123	0.001	87.6	70-130	11.0	20	
o-Xylene	0.124	0.002	"	0.123	0.0009	99.9	70-130	14.2	20	
m,p-Xylene	0.241	0.005	"	0.246	ND	98.0	70-130	19.2	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.154		99.1	70-130			
Surrogate: Toluene-d8	0.16		"	0.154		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.16		"	0.154		103	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 380682 - EPA 3060A</b>										
<b>BLANK (QC1289304)</b>										
					Prepared: 08/29/2025 Analyzed: 09/02/2025					
Hexavalent Chromium	ND	0.30	mg/Kg				-			ND
<b>LCS (QC1289305)</b>										
					Prepared: 08/29/2025 Analyzed: 09/02/2025					
Hexavalent Chromium	38.82	0.5952	mg/Kg	39.68		98	80-120			
<b>Duplicate (QC1289306)</b>										
					Source: E5H0498-01 Prepared: 08/29/2025 Analyzed: 09/02/2025					
Hexavalent Chromium	ND	0.3704	mg/Kg dry		0		-		30	ND
<b>Matrix Spike (QC1289307)</b>										
					Source: E5H0498-01 Prepared: 08/29/2025 Analyzed: 09/02/2025					
Hexavalent Chromium	42.13	0.7407	mg/Kg dry	49.38	0	85	70-130			

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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.
  - 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 Not Detected
  - 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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