



CTEH

May 12, 2025

Kyle Lawrence

5120 North Shore Drive

North Little Rock AR 72118

Project Name - PROJ-054017

Project Number - PROJ-054017

Attached are your analytical results for PROJ-054017 received by Origins Laboratory April 27, 2025. This project is associated with Origins project number E5D0767-01.

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



CTEH
5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence
Project Number: PROJ-054017
Project: PROJ-054017

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GACO0426T069S016	E5D0767-01	Soil	April 26, 2025 8:55	04/27/2025 11:30
GACO0426T069S017	E5D0767-02	Soil	April 26, 2025 9:20	04/27/2025 11:30
GACO0426T069S018	E5D0767-03	Soil	April 26, 2025 10:10	04/27/2025 11:30
GACO0426T069S019	E5D0767-04	Soil	April 26, 2025 10:37	04/27/2025 11:30
GACO0426T069S020	E5D0767-05	Soil	April 26, 2025 10:56	04/27/2025 11:30
GACO0426T069C020	E5D0767-06	Soil	April 26, 2025 10:56	04/27/2025 11:30
GACO0426T069T008	E5D0767-07	Water	April 26, 2025 12:15	04/27/2025 11:30

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ORIGINS LABORATORY

CTEH
5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence
Project Number: PROJ-054017
Project: PROJ-054017

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: E5D0767 Client: CTEH
 Checklist Completed by: JAB / SKM Client Project ID: PROJ-054017
 Date/time completed: 4/27/25 Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 (Describe)
 Cooler Number/Temperature: 1 13.9 °C
 Thermometer ID: T007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO ₃ , HCl, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) SKM

Date/Time Reviewed 04/28/25

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Jordan A. Bynon, Project Manager

CTEH
 5120 North Shore Drive
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Kyle Lawrence
 Project Number: PROJ-054017
 Project: PROJ-054017

GACO0426T069S016
4/26/2025 8:55:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0767-01 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.78		0.101	mg/L	1	B5D2718	04/27/2025	04/30/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.241	mg/kg	1	B5D2849	04/28/2025	05/05/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2831	04/28/2025	04/29/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: <i>o</i> -Terphenyl	70.1 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2804	04/28/2025	04/28/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

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GACO0426T069S016
4/26/2025 8:55:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0767-01 (Soil)									
Origins Laboratory									
GBTEX+TMBs by 8260D									
Surrogate: 1,2-Dichloroethane-d4	106 %			70-130		B5D2804	04/28/2025	04/28/2025	
Surrogate: Toluene-d8	98.1 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %			70-130		"	"	"	
Metals by Saturated Paste by EPA 6010									
Calcium	24.1		0.499	meq/L	10	[CALC]	04/27/2025	04/30/2025	
Magnesium	25.8		0.823	"	"	"	"	"	
Sodium	29.7		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5D2822	04/28/2025	04/30/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	0.009		0.005	"	"	"	"	"	
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

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4/26/2025 8:55:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0767-01 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Fluoranthene	ND		0.020	mg/kg	1	B5D2822	04/28/2025	04/30/2025	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	98.0 %			60-130		"	"	"	
Surrogate: Anthracene-d10	101 %			60-130		"	"	"	
Surrogate: Pyrene-d10	101 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	8.05			pH Units	1	B5D2724	04/27/2025	04/29/2025	
SAR by 20B Saturated Paste									
SAR	5.94		0.0100	SAR	1	B5D2712	04/27/2025	04/30/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	5.78		0.00500	mmhos/cm	1	B5D2724	04/27/2025	04/29/2025	
Table 915 metals by EPA 6020B									

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GACO0426T069S016
4/26/2025 8:55:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0767-01 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	2.36		0.266	mg/kg	10	B5D2810	04/28/2025	04/29/2025	
Barium	75.0		9.16	"	"	"	"	"	"
Cadmium	0.155		0.0916	"	"	"	"	"	"
Copper	ND		9.16	"	"	"	"	"	"
Lead	6.45		0.916	"	"	"	"	"	"
Nickel	6.75		0.916	"	"	"	"	"	"
Selenium	0.540		0.238	"	"	"	"	"	"
Silver	ND		0.0916	"	"	"	"	"	"
Zinc	41.1		33.9	"	"	"	"	"	"

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GACO0426T069S017
4/26/2025 9:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0767-02 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.54		0.0997	mg/L	1	B5D2718	04/27/2025	04/30/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.243	mg/kg	1	B5D2849	04/28/2025	05/05/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2831	04/28/2025	04/29/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	73.8 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2804	04/28/2025	04/28/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

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GACO0426T069S017
4/26/2025 9:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0767-02 (Soil)									
Origins Laboratory									
GBTEX+TMBs by 8260D									
Surrogate: 1,2-Dichloroethane-d4	119 %			70-130		B5D2804	04/28/2025	04/28/2025	
Surrogate: Toluene-d8	99.0 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %			70-130		"	"	"	
Metals by Saturated Paste by EPA 6010									
Calcium	25.4		0.499	meq/L	10	[CALC]	04/27/2025	04/30/2025	
Magnesium	35.5		0.823	"	"	"	"	"	
Sodium	25.7		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5D2822	04/28/2025	04/30/2025	U
2-Methylnaphthalene	0.006		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

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Kyle Lawrence
 Project Number: PROJ-054017
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GACO0426T069S017
4/26/2025 9:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0767-02 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND		0.020	mg/kg	1	B5D2822	04/28/2025	04/30/2025	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	98.0 %			60-130		"	"	"	
Surrogate: Anthracene-d10	100 %			60-130		"	"	"	
Surrogate: Pyrene-d10	103 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %			60-130		"	"	"	

pH in Soil by 9045D

pH	7.97			pH Units	1	B5D2724	04/27/2025	04/29/2025	
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SAR by 20B Saturated Paste

SAR	4.66		0.0100	SAR	1	B5D2712	04/27/2025	04/30/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	6.59		0.00500	mmhos/cm	1	B5D2724	04/27/2025	04/29/2025	
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Table 915 metals by EPA 6020B

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Project Number: PROJ-054017
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GACO0426T069S017
4/26/2025 9:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0767-02 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	1.23		0.285	mg/kg	10	B5D2810	04/28/2025	04/29/2025	
Barium	64.0		9.83	"	"	"	"	"	"
Cadmium	0.174		0.0983	"	"	"	"	"	"
Copper	13.8		9.83	"	"	"	"	"	"
Lead	5.96		0.983	"	"	"	"	"	"
Nickel	6.18		0.983	"	"	"	"	"	"
Selenium	0.397		0.256	"	"	"	"	"	"
Silver	ND		0.0983	"	"	"	"	"	"
Zinc	45.7		36.4	"	"	"	"	"	"

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5120 North Shore Drive
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Project Number: PROJ-054017
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GACO0426T069S018
4/26/2025 10:10:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0767-03 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.31		0.0993	mg/L	1	B5D2718	04/27/2025	04/30/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.250	mg/kg	1	B5D2849	04/28/2025	05/05/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2831	04/28/2025	04/29/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	75.7 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2804	04/28/2025	04/28/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

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CTEH
5120 North Shore Drive
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Kyle Lawrence
Project Number: PROJ-054017
Project: PROJ-054017

GACO0426T069S018
4/26/2025 10:10:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0767-03 (Soil)									
Origins Laboratory									
GBTEX+TMBs by 8260D									
Surrogate: 1,2-Dichloroethane-d4	117 %			70-130		B5D2804	04/28/2025	04/28/2025	
Surrogate: Toluene-d8	99.6 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %			70-130		"	"	"	
Metals by Saturated Paste by EPA 6010									
Calcium	21.4		0.499	meq/L	10	[CALC]	04/27/2025	04/30/2025	
Magnesium	9.70		0.823	"	"	"	"	"	
Sodium	2.96		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5D2822	04/28/2025	04/30/2025	U
2-Methylnaphthalene	0.004		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

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GACO0426T069S018
4/26/2025 10:10:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0767-03 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Fluoranthene	ND		0.020	mg/kg	1	B5D2822	04/28/2025	04/30/2025	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	0.003		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	97.9 %			60-130		"	"	"	
Surrogate: Anthracene-d10	99.8 %			60-130		"	"	"	
Surrogate: Pyrene-d10	104 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	8.36			pH Units	1	B5D2724	04/27/2025	05/02/2025	
SAR by 20B Saturated Paste									
SAR	0.750		0.0100	SAR	1	B5D2712	04/27/2025	04/30/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	2.77		0.00500	mmhos/cm	1	B5D2724	04/27/2025	05/02/2025	
Table 915 metals by EPA 6020B									

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Kyle Lawrence
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 Project: PROJ-054017

GACO0426T069S018
4/26/2025 10:10:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0767-03 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	3.37		0.283	mg/kg	10	B5D2810	04/28/2025	04/29/2025	
Barium	104		9.76	"	"	"	"	"	"
Cadmium	0.273		0.0976	"	"	"	"	"	"
Copper	13.9		9.76	"	"	"	"	"	"
Lead	14.1		0.976	"	"	"	"	"	"
Nickel	10.3		0.976	"	"	"	"	"	"
Selenium	0.897		0.254	"	"	"	"	"	"
Silver	ND		0.0976	"	"	"	"	"	"
Zinc	62.8		36.1	"	"	"	"	"	"

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Project: PROJ-054017

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4/26/2025 10:37:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0767-04 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.26		0.0997	mg/L	1	B5D2718	04/27/2025	04/30/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.240	mg/kg	1	B5D2849	04/28/2025	05/05/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2831	04/28/2025	04/29/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: <i>o</i> -Terphenyl	78.7 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2804	04/28/2025	04/29/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

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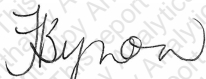
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Project: PROJ-054017

GACO0426T069S019
4/26/2025 10:37:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0767-04 (Soil)									
Origins Laboratory									
GBTEX+TMBs by 8260D									
Surrogate: 1,2-Dichloroethane-d4	119 %			70-130		B5D2804	04/28/2025	04/29/2025	
Surrogate: Toluene-d8	97.8 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	
Metals by Saturated Paste by EPA 6010									
Calcium	28.0		0.499	meq/L	10	[CALC]	04/27/2025	04/30/2025	
Magnesium	30.8		0.823	"	"	"	"	"	
Sodium	19.6		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5D2822	04/28/2025	04/30/2025	U
2-Methylnaphthalene	0.002		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

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4/26/2025 10:37:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0767-04 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Fluoranthene	ND		0.020	mg/kg	1	B5D2822	04/28/2025	04/30/2025	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	98.0 %			60-130	"	"	"	"	
Surrogate: Anthracene-d10	100 %			60-130	"	"	"	"	
Surrogate: Pyrene-d10	102 %			60-130	"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %			60-130	"	"	"	"	
pH in Soil by 9045D									
pH	8.32			pH Units	1	B5D2724	04/27/2025	05/02/2025	
SAR by 20B Saturated Paste									
SAR	3.61		0.0100	SAR	1	B5D2712	04/27/2025	04/30/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	5.56		0.00500	mmhos/cm	1	B5D2724	04/27/2025	05/02/2025	
Table 915 metals by EPA 6020B									

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GACO0426T069S019
4/26/2025 10:37:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0767-04 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	3.20		0.243	mg/kg	10	B5D2810	04/28/2025	04/29/2025	
Barium	87.7		8.37	"	"	"	"	"	"
Cadmium	0.250		0.0837	"	"	"	"	"	"
Copper	14.7		8.37	"	"	"	"	"	"
Lead	9.94		0.837	"	"	"	"	"	"
Nickel	9.41		0.837	"	"	"	"	"	"
Selenium	0.971		0.218	"	"	"	"	"	"
Silver	ND		0.0837	"	"	"	"	"	"
Zinc	60.7		31.0	"	"	"	"	"	"

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GACO0426T069S020
4/26/2025 10:56:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0767-05 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.20		0.0992	mg/L	1	B5D2718	04/27/2025	04/30/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.255	mg/kg	1	B5D2852	04/28/2025	05/10/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2831	04/28/2025	04/29/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	89.4 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2804	04/28/2025	04/29/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

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GACO0426T069S020
4/26/2025 10:56:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0767-05 (Soil)									
Origins Laboratory									
GBTEX+TMBs by 8260D									
Surrogate: 1,2-Dichloroethane-d4	112 %			70-130		B5D2804	04/28/2025	04/29/2025	
Surrogate: Toluene-d8	99.3 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %			70-130		"	"	"	
Metals by Saturated Paste by EPA 6010									
Calcium	19.6		0.499	meq/L	10	[CALC]	04/27/2025	04/30/2025	
Magnesium	16.5		0.823	"	"	"	"	"	
Sodium	16.3		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5D2822	04/28/2025	04/30/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

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4/26/2025 10:56:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0767-05 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Fluoranthene	ND		0.020	mg/kg	1	B5D2822	04/28/2025	04/30/2025	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	97.9 %			60-130		"	"	"	
Surrogate: Anthracene-d10	97.8 %			60-130		"	"	"	
Surrogate: Pyrene-d10	103 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	8.45			pH Units	1	B5D2724	04/27/2025	05/02/2025	
SAR by 20B Saturated Paste									
SAR	3.84		0.0100	SAR	1	B5D2712	04/27/2025	04/30/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	4.96		0.00500	mmhos/cm	1	B5D2724	04/27/2025	05/02/2025	
Table 915 metals by EPA 6020B									

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Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0767-05 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	4.10		0.289	mg/kg	10	B5D2810	04/28/2025	04/29/2025	
Barium	83.3		9.95	"	"	"	"	"	"
Cadmium	0.162		0.0995	"	"	"	"	"	"
Copper	ND		9.95	"	"	"	"	"	"
Lead	6.75		0.995	"	"	"	"	"	"
Nickel	7.53		0.995	"	"	"	"	"	"
Selenium	ND		0.259	"	"	"	"	"	"
Silver	ND		0.0995	"	"	"	"	"	"
Zinc	48.1		36.8	"	"	"	"	"	"

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4/26/2025 10:56:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0767-06 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.22		0.100	mg/L	1	B5D2718	04/27/2025	04/30/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.255	mg/kg	1	B5D2852	04/28/2025	05/10/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2831	04/28/2025	04/29/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: <i>o</i> -Terphenyl	85.6 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2804	04/28/2025	04/29/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

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GACO0426T069C020
4/26/2025 10:56:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0767-06 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	111 %			70-130		B5D2804	04/28/2025	04/29/2025	
Surrogate: Toluene-d8	99.2 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	19.9		0.499	meq/L	10	[CALC]	04/27/2025	04/30/2025	
Magnesium	17.2		0.823	"	"	"	"	"	
Sodium	15.9		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5D2822	04/28/2025	04/30/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

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4/26/2025 10:56:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0767-06 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Fluoranthene	ND		0.020	mg/kg	1	B5D2822	04/28/2025	04/30/2025	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	97.7 %			60-130		"	"	"	
Surrogate: Anthracene-d10	98.4 %			60-130		"	"	"	
Surrogate: Pyrene-d10	103 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	8.54			pH Units	1	B5D2724	04/27/2025	05/02/2025	
SAR by 20B Saturated Paste									
SAR	3.70		0.0100	SAR	1	B5D2712	04/27/2025	04/30/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	5.08		0.00500	mmhos/cm	1	B5D2724	04/27/2025	05/02/2025	
Table 915 metals by EPA 6020B									

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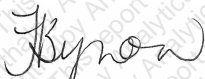
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Project: PROJ-054017

GACO0426T069C020
4/26/2025 10:56:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0767-06 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	4.95		0.260	mg/kg	10	B5D2810	04/28/2025	04/29/2025	
Barium	82.0		8.95	"	"	"	"	"	"
Cadmium	0.193		0.0895	"	"	"	"	"	"
Copper	ND		8.95	"	"	"	"	"	"
Lead	7.57		0.895	"	"	"	"	"	"
Nickel	7.54		0.895	"	"	"	"	"	"
Selenium	0.305		0.233	"	"	"	"	"	"
Silver	ND		0.0895	"	"	"	"	"	"
Zinc	46.0		33.1	"	"	"	"	"	"

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Project: PROJ-054017

GACO0426T069T008
4/26/2025 12:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0767-07 (Water)									
Origins Laboratory									
VOC by EPA 8260D									
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L	1	B5D2875	04/28/2025	04/28/2025	U
1,1,1-Trichloroethane	ND		1.00	"	"	"	"	"	U
1,1,2,2-Tetrachloroethane	ND		1.00	"	"	"	"	"	U
1,1,2-Trichloroethane	ND		1.00	"	"	"	"	"	U
1,1-Dichloroethane	ND		1.00	"	"	"	"	"	U
1,1-Dichloroethene	ND		1.00	"	"	"	"	"	U
1,1-Dichloropropene	ND		1.00	"	"	"	"	"	U
1,2,3-Trichlorobenzene	ND		5.00	"	"	"	"	"	U
1,2,3-Trichloropropane	ND		5.00	"	"	"	"	"	U
1,2,4-Trichlorobenzene	ND		5.00	"	"	"	"	"	U
1,2,4-Trimethylbenzene	ND		1.00	"	"	"	"	"	U
1,2-Dibromo-3-chloropropane	ND		5.00	"	"	"	"	"	U
1,2-Dibromoethane (EDB)	ND		1.50	"	"	"	"	"	U
1,2-Dichlorobenzene	ND		1.00	"	"	"	"	"	U
1,2-Dichloroethane	ND		1.00	"	"	"	"	"	U
1,2-Dichloropropane	ND		1.00	"	"	"	"	"	U
1,3,5-Trimethylbenzene	ND		1.00	"	"	"	"	"	U
1,3-Dichlorobenzene	ND		1.00	"	"	"	"	"	U
1,3-Dichloropropane	ND		1.00	"	"	"	"	"	U

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5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence
Project Number: PROJ-054017
Project: PROJ-054017

GACO0426T069T008
4/26/2025 12:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0767-07 (Water)									
Origins Laboratory									
VOC by EPA 8260D									
1,4-Dichlorobenzene	ND		1.00	ug/L	1	B5D2875	04/28/2025	04/28/2025	U
2,2-Dichloropropane	ND		1.00	"	"	"	"	"	U
2-Butanone	ND		5.00	"	"	"	"	"	U
2-Chlorotoluene	ND		1.00	"	"	"	"	"	U
2-Hexanone	ND		6.00	"	"	"	"	"	U
4-Chlorotoluene	ND		1.00	"	"	"	"	"	U
4-Isopropyltoluene	ND		1.00	"	"	"	"	"	U
4-Methyl-2-pentanone	ND		5.00	"	"	"	"	"	U
Acetone	ND		8.00	"	"	"	"	"	U
Benzene	ND		1.00	"	"	"	"	"	U
Bromobenzene	ND		1.00	"	"	"	"	"	U
Bromochloromethane	ND		1.00	"	"	"	"	"	U
Bromodichloromethane	ND		1.00	"	"	"	"	"	U
Bromoform	ND		1.00	"	"	"	"	"	U
Bromomethane	ND		1.00	"	"	"	"	05/07/2025	U
Carbon disulfide	ND		5.00	"	"	"	"	04/28/2025	U
Carbon tetrachloride	ND		1.00	"	"	"	"	"	U
Chlorobenzene	ND		1.00	"	"	"	"	"	U
Chloroethane	ND		1.00	"	"	"	"	05/07/2025	U

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5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence
Project Number: PROJ-054017
Project: PROJ-054017

GACO0426T069T008
4/26/2025 12:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0767-07 (Water)									
Origins Laboratory									
VOC by EPA 8260D									
Chloroform	ND		1.00	ug/L	1	B5D2875	04/28/2025	04/28/2025	U
Chloromethane	ND		1.00	"	"	"	"	05/07/2025	U
cis-1,2-Dichloroethene	ND		1.00	"	"	"	"	04/28/2025	U
cis-1,3-Dichloropropene	ND		1.00	"	"	"	"	"	U
Dibromochloromethane	ND		1.00	"	"	"	"	"	U
Dibromomethane	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Hexachlorobutadiene	ND		5.00	"	"	"	"	"	U
Iodomethane	ND		10.0	"	"	"	"	"	U
Isopropylbenzene	ND		1.00	"	"	"	"	"	U
m,p-Xylene	ND		2.00	"	"	"	"	"	U
Methylene Chloride	ND		15.0	"	"	"	"	"	U
Methyl tert-Butyl Ether	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		4.00	"	"	"	"	"	U
n-Butylbenzene	ND		1.00	"	"	"	"	"	U
n-Propylbenzene	ND		1.00	"	"	"	"	"	U
o-Xylene	ND		1.00	"	"	"	"	"	U
sec-Butylbenzene	ND		1.00	"	"	"	"	"	U
Styrene	ND		1.00	"	"	"	"	"	U

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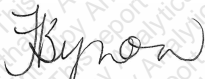
CTEH
5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence
Project Number: PROJ-054017
Project: PROJ-054017

GACO0426T069T008
4/26/2025 12:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0767-07 (Water)									
Origins Laboratory									
VOC by EPA 8260D									
tert-Butylbenzene	ND		1.00	ug/L	1	B5D2875	04/28/2025	04/28/2025	U
Tetrachloroethene	ND		1.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
trans-1,2-Dichloroethene	ND		1.00	"	"	"	"	"	U
trans-1,3-Dichloropropene	ND		1.00	"	"	"	"	"	U
Trichloroethene	ND		1.00	"	"	"	"	"	U
Trichlorofluoromethane	ND		1.00	"	"	"	"	"	U
Vinyl chloride	ND		1.00	"	"	"	"	05/07/2025	U
Surrogate: 1,2-Dichloroethane-d4	105 %			70-130		"	"	04/28/2025	
Surrogate: Toluene-d8	98.4 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	95.9 %			70-130		"	"	"	

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Kyle Lawrence
Project Number: PROJ-054017
Project: PROJ-054017

*** 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 B5D2849 - EPA 3060A

Blank (B5D2849-BLK1)

Prepared: 04/28/2025 Analyzed: 05/05/2025

Hexavalent Chromium ND 0.250 mg/kg

LCS (B5D2849-BS1)

Prepared: 04/28/2025 Analyzed: 05/05/2025

Hexavalent Chromium 2.15 0.250 mg/kg 2.50 86.1 80-120

Matrix Spike (B5D2849-MS1)

Source: E5D0765-04

Prepared: 04/28/2025 Analyzed: 05/05/2025

Hexavalent Chromium 2.09 0.256 mg/kg 2.56 ND 81.7 75-125

Matrix Spike (B5D2849-MS2)

Source: E5D0765-04

Prepared: 04/28/2025 Analyzed: 05/05/2025

Hexavalent Chromium 214 24.4 mg/kg 257 ND 83.2 75-125

Matrix Spike Dup (B5D2849-MSD1)

Source: E5D0765-04

Prepared: 04/28/2025 Analyzed: 05/05/2025

Hexavalent Chromium 2.07 0.253 mg/kg 2.53 ND 81.9 75-125 1.01 200

Post Spike (B5D2849-PS1)

Source: E5D0765-04

Prepared: 04/28/2025 Analyzed: 05/05/2025

Hexavalent Chromium 50.2 ug/L 50.0 0.00 100 80-120

Batch B5D2852 - EPA 3060A

Blank (B5D2852-BLK1)

Prepared: 04/28/2025 Analyzed: 05/10/2025

Hexavalent Chromium ND 0.250 mg/kg

LCS (B5D2852-BS1)

Prepared: 04/28/2025 Analyzed: 05/10/2025

Hexavalent Chromium 2.46 0.250 mg/kg 2.50 98.2 80-120

Matrix Spike (B5D2852-MS1)

Source: E5D0768-01

Prepared: 04/28/2025 Analyzed: 05/10/2025

Hexavalent Chromium 2.54 0.259 mg/kg 2.59 0.235 89.0 75-125

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5D2852 - EPA 3060A										
Matrix Spike (B5D2852-MS2)			Source: E5D0768-01			Prepared: 04/28/2025 Analyzed: 05/10/2025				
Hexavalent Chromium	248	26.2	mg/kg	266	ND	93.3	75-125			
Matrix Spike Dup (B5D2852-MSD1)			Source: E5D0768-01			Prepared: 04/28/2025 Analyzed: 05/10/2025				
Hexavalent Chromium	2.69	0.261	mg/kg	2.61	0.235	93.8	75-125	5.57	200	
Post Spike (B5D2852-PS1)			Source: E5D0768-01			Prepared: 04/28/2025 Analyzed: 05/10/2025				
Hexavalent Chromium	55.8		ug/L	50.0	4.71	102	80-120			

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Kyle Lawrence
 Project Number: PROJ-054017
 Project: PROJ-054017

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 B5D2712 - Saturated Paste Metals

Blank (B5D2712-BLK1)

Prepared: 04/27/2025 Analyzed: 04/30/2025

Calcium PPM	ND	10.0	mg/L							
SAR	ND	0.0100	SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

Duplicate (B5D2712-DUP1)

Source: E5D0766-04

Prepared: 04/27/2025 Analyzed: 04/30/2025

Calcium PPM	99.8	10.0	mg/L		92.3			7.81	50	
SAR	ND	0.0100	SAR		1.03				200	
Magnesium PPM	35.5	10.0	mg/L		32.5			8.94	50	
Sodium PPM	48.0	10.0	"		45.4			5.66	50	

Batch B5D2718 - DTPA Sorbitol Preparation

Blank (B5D2718-BLK1)

Prepared: 04/27/2025 Analyzed: 04/30/2025

Boron	ND	0.100	mg/L							
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Duplicate (B5D2718-DUP1)

Source: E5D0765-04

Prepared: 04/27/2025 Analyzed: 04/30/2025

Boron	0.321	0.100	mg/L		0.349			8.20	50	
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Kyle Lawrence
 Project Number: PROJ-054017
 Project: PROJ-054017

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 B5D2822 - EPA 3580

Blank (B5D2822-BLK1)

Prepared: 04/28/2025 Analyzed: 04/29/2025

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	190		ug/kg	200		97.1	60-130			
Surrogate: Anthracene-d10	190		"	200		95.0	60-130			
Surrogate: Pyrene-d10	210		"	200		105	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.6	60-130			

LCS (B5D2822-BS1)

Prepared: 04/28/2025 Analyzed: 04/29/2025

1-Methylnaphthalene	0.207	0.002	mg/kg	0.200		103	70-130			
2-Methylnaphthalene	0.207	0.002	"	0.200		103	70-130			
Acenaphthene	0.204	0.020	"	0.200		102	70-130			
Anthracene	0.197	0.020	"	0.200		98.3	70-130			

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Kyle Lawrence
 Project Number: PROJ-054017
 Project: PROJ-054017

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 B5D2822 - EPA 3580

LCS (B5D2822-BS1)

Prepared: 04/28/2025 Analyzed: 04/29/2025

Benzo (a) anthracene	0.210	0.005	mg/kg	0.200		105	70-130			
Benzo (a) pyrene	0.207	0.020	"	0.200		103	70-130			
Benzo (b) fluoranthene	0.215	0.020	"	0.200		107	70-130			
Benzo (g,h,i) perylene	0.222	0.020	"	0.200		111	70-130			
Benzo (k) fluoranthene	0.207	0.020	"	0.200		104	70-130			
Chrysene	0.213	0.020	"	0.200		107	70-130			
Dibenz (a,h) anthracene	0.217	0.020	"	0.200		108	70-130			
Fluoranthene	0.220	0.020	"	0.200		110	70-130			
Fluorene	0.202	0.020	"	0.200		101	70-130			
Indeno (1,2,3-cd) pyrene	0.218	0.020	"	0.200		109	70-130			
Naphthalene	0.216	0.002	"	0.200		108	70-130			
Phenanthrene	0.209	0.020	"	0.200		104	70-130			
Pyrene	0.221	0.020	"	0.200		110	70-130			

Surrogate: Fluorene-d10	200		ug/kg	200		98.1	60-130			
Surrogate: Anthracene-d10	190		"	200		95.8	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.4	60-130			

Matrix Spike (B5D2822-MS1)

Source: E5D0764-01

Prepared: 04/28/2025 Analyzed: 04/29/2025

1-Methylnaphthalene	0.205	0.002	mg/kg	0.200	0.0006	102	70-130			
2-Methylnaphthalene	0.205	0.002	"	0.200	ND	103	70-130			
Acenaphthene	0.197	0.020	"	0.200	0.0005	98.4	70-130			
Anthracene	0.199	0.020	"	0.200	0.001	98.9	70-130			
Benzo (a) anthracene	0.208	0.005	"	0.200	0.002	103	70-130			
Benzo (a) pyrene	0.203	0.020	"	0.200	0.002	100	70-130			
Benzo (b) fluoranthene	0.214	0.020	"	0.200	0.002	106	70-130			
Benzo (g,h,i) perylene	0.221	0.020	"	0.200	0.002	109	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 B5D2822 - EPA 3580

Matrix Spike (B5D2822-MS1)

Source: E5D0764-01

Prepared: 04/28/2025 Analyzed: 04/29/2025

Benzo (k) fluoranthene	0.208	0.020	mg/kg	0.200	0.001	103	70-130			
Chrysene	0.213	0.020	"	0.200	0.002	105	70-130			
Dibenz (a,h) anthracene	0.211	0.020	"	0.200	0.002	105	70-130			
Fluoranthene	0.222	0.020	"	0.200	0.002	110	70-130			
Fluorene	0.200	0.020	"	0.200	0.0006	99.9	70-130			
Indeno (1,2,3-cd) pyrene	0.213	0.020	"	0.200	0.002	105	70-130			
Naphthalene	0.222	0.002	"	0.200	ND	111	70-130			
Phenanthrene	0.207	0.020	"	0.200	0.001	103	70-130			
Pyrene	0.222	0.020	"	0.200	0.002	110	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		97.5	60-130			
Surrogate: Anthracene-d10	190		"	200		96.9	60-130			
Surrogate: Pyrene-d10	210		"	200		105	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.5	60-130			

Matrix Spike Dup (B5D2822-MSD1)

Source: E5D0764-01

Prepared: 04/28/2025 Analyzed: 04/29/2025

1-Methylnaphthalene	0.202	0.002	mg/kg	0.200	0.0006	100	70-130	1.61	20	
2-Methylnaphthalene	0.203	0.002	"	0.200	ND	101	70-130	1.12	20	
Acenaphthene	0.202	0.020	"	0.200	0.0005	101	70-130	2.30	20	
Anthracene	0.196	0.020	"	0.200	0.001	97.7	70-130	1.28	20	
Benzo (a) anthracene	0.201	0.005	"	0.200	0.002	99.4	70-130	3.51	20	
Benzo (a) pyrene	0.201	0.020	"	0.200	0.002	99.2	70-130	1.15	20	
Benzo (b) fluoranthene	0.211	0.020	"	0.200	0.002	104	70-130	1.62	20	
Benzo (g,h,i) perylene	0.216	0.020	"	0.200	0.002	107	70-130	2.03	20	
Benzo (k) fluoranthene	0.207	0.020	"	0.200	0.001	103	70-130	0.502	20	
Chrysene	0.210	0.020	"	0.200	0.002	104	70-130	1.44	20	
Dibenz (a,h) anthracene	0.210	0.020	"	0.200	0.002	104	70-130	0.708	20	
Fluoranthene	0.218	0.020	"	0.200	0.002	108	70-130	1.68	20	

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 Project: PROJ-054017

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 B5D2822 - EPA 3580

Matrix Spike Dup (B5D2822-MSD1)

Source: E5D0764-01

Prepared: 04/28/2025 Analyzed: 04/29/2025

Fluorene	0.200	0.020	mg/kg	0.200	0.0006	99.9	70-130	0.0595	20	
Indeno (1,2,3-cd) pyrene	0.213	0.020	"	0.200	0.002	105	70-130	0.0892	20	
Naphthalene	0.213	0.002	"	0.200	ND	106	70-130	4.29	20	
Phenanthrene	0.206	0.020	"	0.200	0.001	102	70-130	0.309	20	
Pyrene	0.217	0.020	"	0.200	0.002	108	70-130	1.97	20	
Surrogate: Fluorene-d10	200		ug/kg	200		98.4	60-130			
Surrogate: Anthracene-d10	190		"	200		96.3	60-130			
Surrogate: Pyrene-d10	210		"	200		105	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.9	60-130			

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Kyle Lawrence
 Project Number: PROJ-054017
 Project: PROJ-054017

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5D2831 - EPA 3550B										
Blank (B5D2831-BLK1)										
					Prepared: 04/28/2025 Analyzed: 04/28/2025					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		83.7	50-150			
LCS (B5D2831-BS1)										
					Prepared: 04/28/2025 Analyzed: 04/28/2025					
Diesel (C10-C28)	999	50.0	mg/kg	1000		99.9	70-130			
Residual Range Organics (C28-C40)	908	200	"	1000		90.8	70-130			
Surrogate: o-Terphenyl	44		"	49.8		88.4	50-150			
Matrix Spike (B5D2831-MS1)										
		Source: E5D0766-04			Prepared: 04/28/2025 Analyzed: 04/28/2025					
Diesel (C10-C28)	991	50.0	mg/kg	1000	ND	99.1	70-130			
Residual Range Organics (C28-C40)	909	200	"	1000	ND	90.9	70-130			
Surrogate: o-Terphenyl	41		"	49.8		83.1	50-150			
Matrix Spike Dup (B5D2831-MSD1)										
		Source: E5D0766-04			Prepared: 04/28/2025 Analyzed: 04/28/2025					
Diesel (C10-C28)	982	50.0	mg/kg	1000	ND	98.2	70-130	0.925	35	
Residual Range Organics (C28-C40)	890	200	"	1000	ND	89.0	70-130	2.04	35	
Surrogate: o-Terphenyl	29		"	49.8		58.3	50-150			

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Metals by EPA 6000/7000 Series Methods - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2810 - EPA 3050B

Blank (B5D2810-BLK1)

Prepared: 04/28/2025 Analyzed: 04/29/2025

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

LCS (B5D2810-BS1)

Prepared: 04/28/2025 Analyzed: 04/29/2025

Arsenic	5.48	0.290	mg/kg	5.00		110	80-120			
Barium	580	10.0	"	500		116	80-120			
Cadmium	5.58	0.100	"	5.00		112	80-120			
Copper	55.2	10.0	"	50.0		110	80-120			
Lead	5.57	1.00	"	5.00		111	80-120			
Nickel	5.51	1.00	"	5.00		110	80-120			
Selenium	5.67	0.260	"	5.00		113	80-120			
Silver	5.71	0.100	"	5.00		114	80-120			
Zinc	60.2	37.0	"	50.0		120	80-120			

Matrix Spike (B5D2810-MS1)

Source: E5D0768-01

Prepared: 04/28/2025 Analyzed: 04/29/2025

Arsenic	9.33	0.282	mg/kg	4.86	4.09	108	75-125			
Barium	654	9.72	"	486	95.3	115	75-125			
Cadmium	5.50	0.0972	"	4.86	0.257	108	75-125			
Copper	61.4	9.72	"	48.6	10.4	105	75-125			
Lead	14.8	0.972	"	4.86	9.29	113	75-125			

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Metals by EPA 6000/7000 Series Methods - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2810 - EPA 3050B

Matrix Spike (B5D2810-MS1)

Source: E5D0768-01

Prepared: 04/28/2025 Analyzed: 04/29/2025

Nickel	13.3	0.972	mg/kg	4.86	8.59	97.3	75-125			
Selenium	5.39	0.253	"	4.86	0.272	105	75-125			
Silver	5.34	0.0972	"	4.86	0.0317	109	75-125			
Zinc	112	36.0	"	48.6	59.2	109	75-125			

Matrix Spike Dup (B5D2810-MSD1)

Source: E5D0768-01

Prepared: 04/28/2025 Analyzed: 04/29/2025

Arsenic	9.08	0.268	mg/kg	4.62	4.09	108	75-125	2.68	20	
Barium	621	9.23	"	462	95.3	114	75-125	5.20	20	
Cadmium	5.29	0.0923	"	4.62	0.257	109	75-125	3.92	20	
Copper	59.5	9.23	"	46.2	10.4	106	75-125	3.10	20	
Lead	14.7	0.923	"	4.62	9.29	118	75-125	0.107	20	
Nickel	13.3	0.923	"	4.62	8.59	102	75-125	0.0170	20	
Selenium	5.34	0.240	"	4.62	0.272	110	75-125	0.863	20	
Silver	5.13	0.0923	"	4.62	0.0317	110	75-125	4.10	20	
Zinc	113	34.2	"	46.2	59.2	117	75-125	1.24	20	

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Saturated Paste - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2724 - Saturated Paste pH/EC

Blank (B5D2724-BLK1)

Prepared: 04/27/2025 Analyzed: 05/02/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B5D2724-DUP1)

Source: E5D0766-04

Prepared: 04/27/2025 Analyzed: 04/29/2025

pH	7.98		pH Units		8.11			1.62	25	
Specific Conductance (EC)	0.316	0.00500	mmhos/cm		1.05			107	25	QR-DUP

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2804 - EPA 5030 (soil)

Blank (B5D2804-BLK1)

Prepared: 04/28/2025 Analyzed: 04/28/2025

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

Surrogate: 1,2-Dichloroethane-d4	0.13	"	0.125	107	70-130
Surrogate: Toluene-d8	0.12	"	0.125	99.8	70-130
Surrogate: 4-Bromofluorobenzene	0.12	"	0.125	98.0	70-130

LCS (B5D2804-BS1)

Prepared: 04/28/2025 Analyzed: 04/28/2025

1,2,4-Trimethylbenzene	0.0932	0.00200	mg/kg	0.100	93.2	70-130
1,3,5-Trimethylbenzene	0.0939	0.00200	"	0.100	93.9	70-130
Benzene	0.0913	0.00200	"	0.100	91.3	70-130
Ethylbenzene	0.0904	0.00200	"	0.100	90.4	70-130
Naphthalene	0.102	0.00380	"	0.100	102	70-130
Toluene	0.0896	0.00200	"	0.100	89.6	70-130
o-Xylene	0.0909	0.00200	"	0.100	90.9	70-130
m,p-Xylene	0.175	0.00400	"	0.200	87.7	70-130

Surrogate: 1,2-Dichloroethane-d4	0.13	"	0.125	102	70-130
Surrogate: Toluene-d8	0.13	"	0.125	101	70-130
Surrogate: 4-Bromofluorobenzene	0.12	"	0.125	97.8	70-130

Matrix Spike (B5D2804-MS1)

Source: E5D0768-01

Prepared: 04/28/2025 Analyzed: 04/28/2025

1,2,4-Trimethylbenzene	0.0858	0.00200	mg/kg	0.100	ND	85.8	70-130
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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2804 - EPA 5030 (soil)

Matrix Spike (B5D2804-MS1)		Source: E5D0768-01		Prepared: 04/28/2025 Analyzed: 04/28/2025						
1,3,5-Trimethylbenzene	0.0873	0.00200	mg/kg	0.100	ND	87.3	70-130			
Benzene	0.0890	0.00200	"	0.100	0.000500	88.5	70-130			
Ethylbenzene	0.0883	0.00200	"	0.100	ND	88.3	70-130			
Naphthalene	0.0753	0.00380	"	0.100	ND	75.3	70-130			
Toluene	0.0860	0.00200	"	0.100	ND	86.0	70-130			
o-Xylene	0.0880	0.00200	"	0.100	ND	88.0	70-130			
m,p-Xylene	0.170	0.00400	"	0.200	ND	85.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.7	70-130			

Matrix Spike Dup (B5D2804-MSD1)		Source: E5D0768-01		Prepared: 04/28/2025 Analyzed: 04/28/2025						
1,2,4-Trimethylbenzene	0.0842	0.00200	mg/kg	0.100	ND	84.2	70-130	1.88	20	
1,3,5-Trimethylbenzene	0.0846	0.00200	"	0.100	ND	84.6	70-130	3.21	20	
Benzene	0.0856	0.00200	"	0.100	0.000500	85.1	70-130	3.92	20	
Ethylbenzene	0.0840	0.00200	"	0.100	ND	84.0	70-130	4.97	20	
Naphthalene	0.0785	0.00380	"	0.100	ND	78.5	70-130	4.19	20	
Toluene	0.0828	0.00200	"	0.100	ND	82.8	70-130	3.82	20	
o-Xylene	0.0851	0.00200	"	0.100	ND	85.1	70-130	3.37	20	
m,p-Xylene	0.163	0.00400	"	0.200	ND	81.5	70-130	4.39	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	70-130			

Batch B5D2875 - EPA 5030B (Water)

Blank (B5D2875-BLK1)		Prepared: 04/28/2025 Analyzed: 04/28/2025								
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1,1,1,2-Tetrachloroethane	ND	1.00	ug/L							U
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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2875 - EPA 5030B (Water)

Blank (B5D2875-BLK1)

Prepared: 04/28/2025 Analyzed: 04/28/2025

1,1,1-Trichloroethane	ND	1.00	ug/L							U
1,1,2,2-Tetrachloroethane	ND	1.00	"							U
1,1,2-Trichloroethane	ND	1.00	"							U
1,1-Dichloroethane	ND	1.00	"							U
1,1-Dichloroethene	ND	1.00	"							U
1,1-Dichloropropene	ND	1.00	"							U
1,2,3-Trichlorobenzene	ND	5.00	"							U
1,2,3-Trichloropropane	ND	5.00	"							U
1,2,4-Trichlorobenzene	ND	5.00	"							U
1,2,4-Trimethylbenzene	ND	1.00	"							U
1,2-Dibromo-3-chloropropane	ND	5.00	"							U
1,2-Dibromoethane (EDB)	ND	1.50	"							U
1,2-Dichlorobenzene	ND	1.00	"							U
1,2-Dichloroethane	ND	1.00	"							U
1,2-Dichloropropane	ND	1.00	"							U
1,3,5-Trimethylbenzene	ND	1.00	"							U
1,3-Dichlorobenzene	ND	1.00	"							U
1,3-Dichloropropane	ND	1.00	"							U
1,4-Dichlorobenzene	ND	1.00	"							U
2,2-Dichloropropane	ND	1.00	"							U
2-Butanone	ND	5.00	"							U
2-Chlorotoluene	ND	1.00	"							U
2-Hexanone	ND	6.00	"							U
4-Chlorotoluene	ND	1.00	"							U
4-Isopropyltoluene	ND	1.00	"							U
4-Methyl-2-pentanone	ND	5.00	"							U

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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 B5D2875 - EPA 5030B (Water)

Blank (B5D2875-BLK1)

Prepared: 04/28/2025 Analyzed: 04/28/2025

Acetone	ND	8.00	ug/L							U
Benzene	ND	1.00	"							U
Bromobenzene	ND	1.00	"							U
Bromochloromethane	ND	1.00	"							U
Bromodichloromethane	ND	1.00	"							U
Bromoform	ND	1.00	"							U
Bromomethane	ND	1.00	"							U
Carbon disulfide	ND	5.00	"							U
Carbon tetrachloride	ND	1.00	"							U
Chlorobenzene	ND	1.00	"							U
Chloroethane	ND	1.00	"							U
Chloroform	ND	1.00	"							U
Chloromethane	ND	1.00	"							U
cis-1,2-Dichloroethene	ND	1.00	"							U
cis-1,3-Dichloropropene	ND	1.00	"							U
Dibromochloromethane	ND	1.00	"							U
Dibromomethane	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Hexachlorobutadiene	ND	5.00	"							U
Iodomethane	ND	10.0	"							U
Isopropylbenzene	ND	1.00	"							U
m,p-Xylene	ND	2.00	"							U
Methylene Chloride	ND	15.0	"							U
Methyl tert-Butyl Ether	ND	1.00	"							U
Naphthalene	ND	4.00	"							U
n-Butylbenzene	ND	1.00	"							U

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2875 - EPA 5030B (Water)

Blank (B5D2875-BLK1)

Prepared: 04/28/2025 Analyzed: 04/28/2025

n-Propylbenzene	ND	1.00	ug/L							U
o-Xylene	ND	1.00	"							U
sec-Butylbenzene	ND	1.00	"							U
Styrene	ND	1.00	"							U
tert-Butylbenzene	ND	1.00	"							U
Tetrachloroethene	ND	1.00	"							U
Toluene	ND	1.00	"							U
trans-1,2-Dichloroethene	ND	1.00	"							U
trans-1,3-Dichloropropene	ND	1.00	"							U
Trichloroethene	ND	1.00	"							U
Trichlorofluoromethane	ND	1.00	"							U
Vinyl chloride	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

LCS (B5D2875-BS1)

Prepared: 04/28/2025 Analyzed: 04/28/2025

1,1,1,2-Tetrachloroethane	48.2	1.00	ug/L	50.0		96.4	70-130			
1,1,1-Trichloroethane	45.6	1.00	"	50.0		91.1	70-130			
1,1,2,2-Tetrachloroethane	46.0	1.00	"	50.0		91.9	70-130			
1,1,2-Trichloroethane	46.6	1.00	"	50.0		93.2	70-130			
1,1-Dichloroethane	44.7	1.00	"	50.0		89.5	70-130			
1,1-Dichloroethene	43.0	1.00	"	50.0		86.0	70-130			
1,1-Dichloropropene	46.1	1.00	"	50.0		92.3	70-130			
1,2,3-Trichlorobenzene	52.5	5.00	"	50.0		105	70-130			
1,2,3-Trichloropropane	44.2	5.00	"	50.0		88.4	70-130			
1,2,4-Trichlorobenzene	47.4	5.00	"	50.0		94.9	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2875 - EPA 5030B (Water)

LCS (B5D2875-BS1)

Prepared: 04/28/2025 Analyzed: 04/28/2025

1,2,4-Trimethylbenzene	49.8	1.00	ug/L	50.0		99.7	70-130			
1,2-Dibromo-3-chloropropane	44.2	5.00	"	50.0		88.4	70-130			
1,2-Dibromoethane (EDB)	47.5	1.50	"	50.0		95.0	70-130			
1,2-Dichlorobenzene	49.8	1.00	"	50.0		99.6	70-130			
1,2-Dichloroethane	45.6	1.00	"	50.0		91.1	70-130			
1,2-Dichloropropane	43.4	1.00	"	50.0		86.8	70-130			
1,3,5-Trimethylbenzene	50.1	1.00	"	50.0		100	70-130			
1,3-Dichlorobenzene	47.4	1.00	"	50.0		94.9	70-130			
1,3-Dichloropropane	48.8	1.00	"	50.0		97.7	70-130			
1,4-Dichlorobenzene	45.4	1.00	"	50.0		90.9	70-130			
2,2-Dichloropropane	43.0	1.00	"	50.0		85.9	70-130			
2-Butanone	253	5.00	"	250		101	70-130			
2-Chlorotoluene	46.2	1.00	"	50.0		92.4	70-130			
2-Hexanone	265	6.00	"	250		106	70-130			
4-Chlorotoluene	48.0	1.00	"	50.0		96.0	70-130			
4-Isopropyltoluene	49.8	1.00	"	50.0		99.5	70-130			
4-Methyl-2-pentanone	246	5.00	"	250		98.2	70-130			
Acetone	207	8.00	"	250		82.9	70-130			
Benzene	45.3	1.00	"	50.0		90.7	70-130			
Bromobenzene	46.0	1.00	"	50.0		91.9	70-130			
Bromochloromethane	44.3	1.00	"	50.0		88.6	70-130			
Bromodichloromethane	46.7	1.00	"	50.0		93.3	70-130			
Bromoform	44.5	1.00	"	50.0		88.9	70-130			
Bromomethane	48.3	1.00	"	50.0		96.6	70-130			
Carbon disulfide	43.7	5.00	"	50.0		87.3	70-130			
Carbon tetrachloride	46.4	1.00	"	50.0		92.8	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2875 - EPA 5030B (Water)

LCS (B5D2875-BS1)

Prepared: 04/28/2025 Analyzed: 04/28/2025

Chlorobenzene	45.8	1.00	ug/L	50.0		91.6	70-130			
Chloroethane	47.3	1.00	"	50.0		94.5	70-130			
Chloroform	46.6	1.00	"	50.0		93.2	70-130			
Chloromethane	47.0	1.00	"	50.0		93.9	70-130			
cis-1,2-Dichloroethene	44.5	1.00	"	50.0		89.0	70-130			
cis-1,3-Dichloropropene	44.4	1.00	"	50.0		88.8	70-130			
Dibromochloromethane	47.4	1.00	"	50.0		94.9	70-130			
Dibromomethane	43.6	1.00	"	50.0		87.2	70-130			
Ethylbenzene	48.9	1.00	"	50.0		97.9	70-130			
Hexachlorobutadiene	48.4	5.00	"	50.0		96.7	70-130			
Iodomethane	44.0	10.0	"	50.0		88.0	70-130			
Isopropylbenzene	46.9	1.00	"	50.0		93.8	70-130			
m,p-Xylene	98.3	2.00	"	100		98.3	70-130			
Methylene Chloride	44.6	15.0	"	50.0		89.1	70-130			
Methyl tert-Butyl Ether	41.1	1.00	"	50.0		82.2	70-130			
Naphthalene	50.8	4.00	"	50.0		102	70-130			
n-Butylbenzene	52.2	1.00	"	50.0		104	70-130			
n-Propylbenzene	47.7	1.00	"	50.0		95.3	70-130			
o-Xylene	50.0	1.00	"	50.0		100	70-130			
sec-Butylbenzene	51.6	1.00	"	50.0		103	70-130			
Styrene	50.7	1.00	"	50.0		101	70-130			
tert-Butylbenzene	47.8	1.00	"	50.0		95.5	70-130			
Tetrachloroethene	45.3	1.00	"	50.0		90.6	70-130			
Toluene	44.3	1.00	"	50.0		88.5	70-130			
trans-1,2-Dichloroethene	44.5	1.00	"	50.0		89.1	70-130			
trans-1,3-Dichloropropene	50.3	1.00	"	50.0		101	70-130			

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 North Little Rock AR 72118

Kyle Lawrence
 Project Number: PROJ-054017
 Project: PROJ-054017

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 B5D2875 - EPA 5030B (Water)

LCS (B5D2875-BS1)

Prepared: 04/28/2025 Analyzed: 04/28/2025

Trichloroethene	45.0	1.00	ug/L	50.0		90.1	70-130			
Trichlorofluoromethane	65.2	1.00	"	50.0		130	70-130			
Vinyl chloride	49.2	1.00	"	50.0		98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.8	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.6	70-130			

Matrix Spike (B5D2875-MS1)

Source: E5D0762-07

Prepared: 04/28/2025 Analyzed: 04/29/2025

1,1,1,2-Tetrachloroethane	42.6	1.00	ug/L	50.0	ND	85.2	70-130			
1,1,1-Trichloroethane	43.6	1.00	"	50.0	ND	87.2	70-130			
1,1,2,2-Tetrachloroethane	43.8	1.00	"	50.0	ND	87.6	70-130			
1,1,2-Trichloroethane	44.3	1.00	"	50.0	ND	88.5	70-130			
1,1-Dichloroethane	41.8	1.00	"	50.0	ND	83.6	70-130			
1,1-Dichloroethene	39.8	1.00	"	50.0	ND	79.6	70-130			
1,1-Dichloropropene	43.3	1.00	"	50.0	ND	86.7	70-130			
1,2,3-Trichlorobenzene	48.8	5.00	"	50.0	ND	97.6	70-130			
1,2,3-Trichloropropane	42.8	5.00	"	50.0	ND	85.6	70-130			
1,2,4-Trichlorobenzene	43.4	5.00	"	50.0	ND	86.7	70-130			
1,2,4-Trimethylbenzene	44.7	1.00	"	50.0	ND	89.5	70-130			
1,2-Dibromo-3-chloropropane	40.4	5.00	"	50.0	ND	80.9	70-130			
1,2-Dibromoethane (EDB)	44.5	1.50	"	50.0	ND	89.1	70-130			
1,2-Dichlorobenzene	43.9	1.00	"	50.0	ND	87.8	70-130			
1,2-Dichloroethane	42.0	1.00	"	50.0	ND	84.0	70-130			
1,2-Dichloropropane	41.8	1.00	"	50.0	ND	83.6	70-130			
1,3,5-Trimethylbenzene	45.3	1.00	"	50.0	ND	90.6	70-130			
1,3-Dichlorobenzene	41.5	1.00	"	50.0	ND	83.0	70-130			
1,3-Dichloropropane	44.9	1.00	"	50.0	ND	89.9	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2875 - EPA 5030B (Water)

Matrix Spike (B5D2875-MS1)

Source: E5D0762-07

Prepared: 04/28/2025 Analyzed: 04/29/2025

1,4-Dichlorobenzene	42.1	1.00	ug/L	50.0	ND	84.2	70-130			
2,2-Dichloropropane	41.5	1.00	"	50.0	ND	83.0	70-130			
2-Butanone	247	5.00	"	250	ND	98.7	70-130			
2-Chlorotoluene	43.5	1.00	"	50.0	ND	87.0	70-130			
2-Hexanone	245	6.00	"	250	ND	98.1	70-130			
4-Chlorotoluene	43.0	1.00	"	50.0	ND	85.9	70-130			
4-Isopropyltoluene	46.1	1.00	"	50.0	ND	92.2	70-130			
4-Methyl-2-pentanone	242	5.00	"	250	ND	96.6	70-130			
Acetone	196	8.00	"	250	ND	78.6	70-130			
Benzene	42.9	1.00	"	50.0	ND	85.8	70-130			
Bromobenzene	42.2	1.00	"	50.0	ND	84.5	70-130			
Bromochloromethane	42.6	1.00	"	50.0	ND	85.2	70-130			
Bromodichloromethane	43.4	1.00	"	50.0	ND	86.9	70-130			
Bromoform	41.1	1.00	"	50.0	ND	82.2	70-130			
Bromomethane	57.6	1.00	"	50.0	ND	115	70-130			
Carbon disulfide	42.1	5.00	"	50.0	ND	84.2	70-130			
Carbon tetrachloride	44.2	1.00	"	50.0	ND	88.4	70-130			
Chlorobenzene	42.6	1.00	"	50.0	ND	85.3	70-130			
Chloroethane	59.5	1.00	"	50.0	ND	119	70-130			
Chloroform	41.4	1.00	"	50.0	ND	82.9	70-130			
Chloromethane	48.2	1.00	"	50.0	ND	96.4	70-130			
cis-1,2-Dichloroethene	42.7	1.00	"	50.0	ND	85.4	70-130			
cis-1,3-Dichloropropene	41.3	1.00	"	50.0	ND	82.5	70-130			
Dibromochloromethane	44.6	1.00	"	50.0	ND	89.2	70-130			
Dibromomethane	42.7	1.00	"	50.0	ND	85.4	70-130			
Ethylbenzene	42.9	1.00	"	50.0	ND	85.8	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2875 - EPA 5030B (Water)

Matrix Spike (B5D2875-MS1)

Source: E5D0762-07

Prepared: 04/28/2025 Analyzed: 04/29/2025

Hexachlorobutadiene	43.4	5.00	ug/L	50.0	ND	86.8	70-130			
Iodomethane	41.6	10.0	"	50.0	ND	83.1	70-130			
Isopropylbenzene	43.7	1.00	"	50.0	ND	87.5	70-130			
m,p-Xylene	86.5	2.00	"	100	ND	86.5	70-130			
Methylene Chloride	41.9	15.0	"	50.0	ND	83.9	70-130			
Methyl tert-Butyl Ether	35.4	1.00	"	50.0	ND	70.8	70-130			
Naphthalene	46.4	4.00	"	50.0	ND	92.8	70-130			
n-Butylbenzene	46.9	1.00	"	50.0	ND	93.8	70-130			
n-Propylbenzene	44.6	1.00	"	50.0	ND	89.2	70-130			
o-Xylene	44.5	1.00	"	50.0	ND	89.1	70-130			
sec-Butylbenzene	45.8	1.00	"	50.0	ND	91.6	70-130			
Styrene	44.6	1.00	"	50.0	ND	89.2	70-130			
tert-Butylbenzene	42.0	1.00	"	50.0	ND	84.0	70-130			
Tetrachloroethene	43.4	1.00	"	50.0	ND	86.8	70-130			
Toluene	43.6	1.00	"	50.0	ND	87.3	70-130			
trans-1,2-Dichloroethene	41.7	1.00	"	50.0	ND	83.3	70-130			
trans-1,3-Dichloropropene	46.4	1.00	"	50.0	ND	92.7	70-130			
Trichloroethene	42.3	1.00	"	50.0	ND	84.6	70-130			
Trichlorofluoromethane	52.3	1.00	"	50.0	ND	105	70-130			
Vinyl chloride	50.3	1.00	"	50.0	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.5	70-130			

Matrix Spike Dup (B5D2875-MSD1)

Source: E5D0762-07

Prepared: 04/28/2025 Analyzed: 04/29/2025

1,1,1,2-Tetrachloroethane	52.3	1.00	ug/L	50.0	ND	105	70-130	20.5	20	QR-02
1,1,1-Trichloroethane	51.0	1.00	"	50.0	ND	102	70-130	15.7	20	

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2875 - EPA 5030B (Water)

Matrix Spike Dup (B5D2875-MSD1)

Source: E5D0762-07

Prepared: 04/28/2025 Analyzed: 04/29/2025

1,1,2,2-Tetrachloroethane	54.0	1.00	ug/L	50.0	ND	108	70-130	20.9	20	QR-02
1,1,2-Trichloroethane	52.6	1.00	"	50.0	ND	105	70-130	17.2	20	
1,1-Dichloroethane	48.3	1.00	"	50.0	ND	96.7	70-130	14.4	20	
1,1-Dichloroethene	45.9	1.00	"	50.0	ND	91.8	70-130	14.2	20	
1,1-Dichloropropene	50.5	1.00	"	50.0	ND	101	70-130	15.3	20	
1,2,3-Trichlorobenzene	56.9	5.00	"	50.0	ND	114	70-130	15.3	20	
1,2,3-Trichloropropane	51.6	5.00	"	50.0	ND	103	70-130	18.7	20	
1,2,4-Trichlorobenzene	51.4	5.00	"	50.0	ND	103	70-130	17.1	20	
1,2,4-Trimethylbenzene	54.8	1.00	"	50.0	ND	110	70-130	20.2	20	QR-02
1,2-Dibromo-3-chloropropane	51.1	5.00	"	50.0	ND	102	70-130	23.2	20	QR-02
1,2-Dibromoethane (EDB)	53.2	1.50	"	50.0	ND	106	70-130	17.6	20	
1,2-Dichlorobenzene	52.0	1.00	"	50.0	ND	104	70-130	16.8	20	
1,2-Dichloroethane	49.7	1.00	"	50.0	ND	99.4	70-130	16.8	20	
1,2-Dichloropropane	49.8	1.00	"	50.0	ND	99.7	70-130	17.6	20	
1,3,5-Trimethylbenzene	55.2	1.00	"	50.0	ND	110	70-130	19.6	20	
1,3-Dichlorobenzene	51.6	1.00	"	50.0	ND	103	70-130	21.7	20	QR-02
1,3-Dichloropropane	53.6	1.00	"	50.0	ND	107	70-130	17.6	20	
1,4-Dichlorobenzene	49.0	1.00	"	50.0	ND	98.0	70-130	15.1	20	
2,2-Dichloropropane	47.8	1.00	"	50.0	ND	95.6	70-130	14.1	20	
2-Butanone	289	5.00	"	250	ND	115	70-130	15.6	20	
2-Chlorotoluene	53.0	1.00	"	50.0	ND	106	70-130	19.7	20	
2-Hexanone	296	6.00	"	250	ND	118	70-130	18.6	20	
4-Chlorotoluene	52.4	1.00	"	50.0	ND	105	70-130	19.7	20	
4-Isopropyltoluene	54.8	1.00	"	50.0	ND	110	70-130	17.3	20	
4-Methyl-2-pentanone	301	5.00	"	250	ND	120	70-130	21.8	20	QR-02
Acetone	220	8.00	"	250	ND	88.1	70-130	11.4	20	

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2875 - EPA 5030B (Water)

Matrix Spike Dup (B5D2875-MSD1)

Source: E5D0762-07

Prepared: 04/28/2025 Analyzed: 04/29/2025

Benzene	49.8	1.00	ug/L	50.0	ND	99.7	70-130	15.0	20	
Bromobenzene	51.3	1.00	"	50.0	ND	103	70-130	19.3	20	
Bromochloromethane	49.3	1.00	"	50.0	ND	98.6	70-130	14.5	20	
Bromodichloromethane	51.5	1.00	"	50.0	ND	103	70-130	17.1	20	
Bromoform	53.4	1.00	"	50.0	ND	107	70-130	26.0	20	QR-02
Bromomethane	50.2	1.00	"	50.0	ND	100	70-130	13.8	20	
Carbon disulfide	48.4	5.00	"	50.0	ND	96.7	70-130	13.8	20	
Carbon tetrachloride	51.4	1.00	"	50.0	ND	103	70-130	15.0	20	
Chlorobenzene	49.9	1.00	"	50.0	ND	99.8	70-130	15.6	20	
Chloroethane	51.5	1.00	"	50.0	ND	103	70-130	14.5	20	
Chloroform	48.7	1.00	"	50.0	ND	97.4	70-130	16.1	20	
Chloromethane	41.5	1.00	"	50.0	ND	83.0	70-130	14.9	20	
cis-1,2-Dichloroethene	49.2	1.00	"	50.0	ND	98.3	70-130	14.0	20	
cis-1,3-Dichloropropene	49.0	1.00	"	50.0	ND	98.0	70-130	17.2	20	
Dibromochloromethane	53.3	1.00	"	50.0	ND	107	70-130	17.8	20	
Dibromomethane	50.5	1.00	"	50.0	ND	101	70-130	16.7	20	
Ethylbenzene	52.0	1.00	"	50.0	ND	104	70-130	19.1	20	
Hexachlorobutadiene	51.7	5.00	"	50.0	ND	103	70-130	17.5	20	
Iodomethane	47.9	10.0	"	50.0	ND	95.7	70-130	14.1	20	
Isopropylbenzene	52.8	1.00	"	50.0	ND	106	70-130	18.8	20	
m,p-Xylene	104	2.00	"	100	ND	104	70-130	18.6	20	
Methylene Chloride	48.2	15.0	"	50.0	ND	96.3	70-130	13.8	20	
Methyl tert-Butyl Ether	41.8	1.00	"	50.0	ND	83.6	70-130	16.6	20	
Naphthalene	58.5	4.00	"	50.0	ND	117	70-130	23.0	20	QR-02
n-Butylbenzene	55.0	1.00	"	50.0	ND	110	70-130	16.0	20	
n-Propylbenzene	54.1	1.00	"	50.0	ND	108	70-130	19.3	20	

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D2875 - EPA 5030B (Water)

Matrix Spike Dup (B5D2875-MSD1)

Source: E5D0762-07

Prepared: 04/28/2025 Analyzed: 04/29/2025

o-Xylene	54.2	1.00	ug/L	50.0	ND	108	70-130	19.6	20	
sec-Butylbenzene	56.5	1.00	"	50.0	ND	113	70-130	21.0	20	QR-02
Styrene	54.6	1.00	"	50.0	ND	109	70-130	20.2	20	QR-02
tert-Butylbenzene	52.9	1.00	"	50.0	ND	106	70-130	22.9	20	QR-02
Tetrachloroethene	50.6	1.00	"	50.0	ND	101	70-130	15.4	20	
Toluene	51.3	1.00	"	50.0	ND	103	70-130	16.1	20	
trans-1,2-Dichloroethene	47.8	1.00	"	50.0	ND	95.6	70-130	13.8	20	
trans-1,3-Dichloropropene	55.5	1.00	"	50.0	ND	111	70-130	17.9	20	
Trichloroethene	49.7	1.00	"	50.0	ND	99.3	70-130	16.0	20	
Trichlorofluoromethane	44.8	1.00	"	50.0	ND	89.5	70-130	15.6	20	
Vinyl chloride	43.3	1.00	"	50.0	ND	86.6	70-130	15.0	20	
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	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.
 - QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
 - 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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