



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 E5D0763-01.

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
GACO0426T069S027	E5D0763-01	Soil	April 26, 2025 8:27	04/27/2025 11:30
GACO0426T069S028	E5D0763-02	Soil	April 26, 2025 8:47	04/27/2025 11:30
GACO0426T069S029	E5D0763-03	Soil	April 26, 2025 8:59	04/27/2025 11:30
GACO0426T069S030	E5D0763-04	Soil	April 26, 2025 9:15	04/27/2025 11:30
GACO0426T069S031	E5D0763-05	Soil	April 26, 2025 9:30	04/27/2025 11:30
GACO0426T069S032	E5D0763-06	Soil	April 26, 2025 9:42	04/27/2025 11:30
GACO0426T069T002	E5D0763-07	Water	April 26, 2025 7:30	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: ESD0763 Client: CTEH
Client Project ID: PROJ-054017
Checklist Completed by: JAB/JMB Shipped Via: HD
Date/time completed: 4/27/25 (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: 1/39 °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)

04/28/25
Date/Time Reviewed

Origins Laboratory

J. Bynon

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CTEH
 5120 North Shore Drive
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Kyle Lawrence
 Project Number: PROJ-054017
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GACO0426T069S027
4/26/2025 8:27:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0763-01 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.700		0.0991	mg/L	1	B5D2717	04/27/2025	04/30/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.252	mg/kg	1	B5D2848	04/28/2025	05/09/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2827	04/28/2025	04/28/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: <i>o</i> -Terphenyl	108 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2802	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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GACO0426T069S027
4/26/2025 8:27:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0763-01 (Soil)									
Origins Laboratory									
GBTEX+TMBs by 8260D									
Surrogate: 1,2-Dichloroethane-d4	96.2 %			70-130		B5D2802	04/28/2025	04/28/2025	
Surrogate: Toluene-d8	98.3 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %			70-130		"	"	"	
Metals by Saturated Paste by EPA 6010									
Calcium	3.06		0.499	meq/L	10	[CALC]	04/27/2025	04/30/2025	
Magnesium	1.97		0.823	"	"	"	"	"	
Sodium	3.90		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5D2821	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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Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0763-01 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Fluoranthene	ND		0.020	mg/kg	1	B5D2821	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	101 %			60-130		"	"	"	
Surrogate: Anthracene-d10	96.8 %			60-130		"	"	"	
Surrogate: Pyrene-d10	93.0 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	104 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	8.29			pH Units	1	B5D2723	04/27/2025	04/29/2025	
SAR by 20B Saturated Paste									
SAR	2.46		0.0100	SAR	1	B5D2711	04/27/2025	04/30/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	1.23		0.00500	mmhos/cm	1	B5D2723	04/27/2025	04/29/2025	
Table 915 metals by EPA 6020B									

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GACO0426T069S027
4/26/2025 8:27:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0763-01 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	5.36		0.275	mg/kg	10	B5D2808	04/28/2025	04/29/2025	
Barium	130		9.50	"	"	"	"	"	"
Cadmium	0.200		0.0950	"	"	"	"	"	"
Copper	ND		9.50	"	"	"	"	"	"
Lead	6.71		0.950	"	"	"	"	"	"
Nickel	6.53		0.950	"	"	"	"	"	"
Selenium	0.407		0.247	"	"	"	"	"	"
Silver	ND		0.0950	"	"	"	"	"	"
Zinc	40.4		35.1	"	"	"	"	"	"

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GACO0426T069S028
4/26/2025 8:47:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0763-02 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.814		0.100	mg/L	1	B5D2717	04/27/2025	04/30/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.248	mg/kg	1	B5D2848	04/28/2025	05/09/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2827	04/28/2025	04/28/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	102 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2802	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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GACO0426T069S028
4/26/2025 8:47:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0763-02 (Soil)									
Origins Laboratory									
GBTEX+TMBs by 8260D									
Surrogate: 1,2-Dichloroethane-d4	101 %			70-130		B5D2802	04/28/2025	04/28/2025	
Surrogate: Toluene-d8	95.3 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %			70-130		"	"	"	
Metals by Saturated Paste by EPA 6010									
Calcium	13.7		0.499	meq/L	10	[CALC]	04/27/2025	04/30/2025	
Magnesium	8.38		0.823	"	"	"	"	"	
Sodium	13.1		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5D2821	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 8:47:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0763-02 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Fluoranthene	ND		0.020	mg/kg	1	B5D2821	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	93.2 %			60-130		"	"	"	
Surrogate: Anthracene-d10	87.9 %			60-130		"	"	"	
Surrogate: Pyrene-d10	102 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	8.12			pH Units	1	B5D2723	04/27/2025	04/29/2025	
SAR by 20B Saturated Paste									
SAR	3.95		0.0100	SAR	1	B5D2711	04/27/2025	04/30/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	3.65		0.00500	mmhos/cm	1	B5D2723	04/27/2025	04/29/2025	
Table 915 metals by EPA 6020B									

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GACO0426T069S028
4/26/2025 8:47:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0763-02 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	4.18		0.256	mg/kg	10	B5D2808	04/28/2025	04/29/2025	
Barium	56.2		8.82	"	"	"	"	"	"
Cadmium	0.169		0.0882	"	"	"	"	"	"
Copper	ND		8.82	"	"	"	"	"	"
Lead	6.54		0.882	"	"	"	"	"	"
Nickel	6.30		0.882	"	"	"	"	"	"
Selenium	0.370		0.229	"	"	"	"	"	"
Silver	ND		0.0882	"	"	"	"	"	"
Zinc	33.8		32.6	"	"	"	"	"	"

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GACO0426T069S029
4/26/2025 8:59:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0763-03 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.05		0.0996	mg/L	1	B5D2717	04/27/2025	04/30/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.247	mg/kg	1	B5D2848	04/28/2025	05/09/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2827	04/28/2025	04/28/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: <i>o</i> -Terphenyl	109 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2802	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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GACO0426T069S029
4/26/2025 8:59:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0763-03 (Soil)									
Origins Laboratory									
GBTEX+TMBs by 8260D									
Surrogate: 1,2-Dichloroethane-d4	106 %			70-130		B5D2802	04/28/2025	04/28/2025	
Surrogate: Toluene-d8	99.0 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.8 %			70-130		"	"	"	
Metals by Saturated Paste by EPA 6010									
Calcium	4.96		0.499	meq/L	10	[CALC]	04/27/2025	04/30/2025	
Magnesium	4.86		0.823	"	"	"	"	"	
Sodium	8.52		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5D2821	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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Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0763-03 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Fluoranthene	ND		0.020	mg/kg	1	B5D2821	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	100 %			60-130		"	"	"	
Surrogate: Anthracene-d10	95.1 %			60-130		"	"	"	
Surrogate: Pyrene-d10	95.5 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	104 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	8.33			pH Units	1	B5D2723	04/27/2025	04/29/2025	
SAR by 20B Saturated Paste									
SAR	3.84		0.0100	SAR	1	B5D2711	04/27/2025	04/30/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	2.42		0.00500	mmhos/cm	1	B5D2723	04/27/2025	04/29/2025	
Table 915 metals by EPA 6020B									

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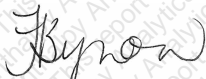
CTEH
5120 North Shore Drive
North Little Rock AR 72118

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

GACO0426T069S029
4/26/2025 8:59:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0763-03 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	6.25		0.276	mg/kg	10	B5D2808	04/28/2025	04/29/2025	
Barium	113		9.51	"	"	"	"	"	"
Cadmium	0.389		0.0951	"	"	"	"	"	"
Copper	11.7		9.51	"	"	"	"	"	"
Lead	8.87		0.951	"	"	"	"	"	"
Nickel	9.96		0.951	"	"	"	"	"	"
Selenium	0.377		0.247	"	"	"	"	"	"
Silver	ND		0.0951	"	"	"	"	"	"
Zinc	63.1		35.2	"	"	"	"	"	"

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

GACO0426T069S030
4/26/2025 9:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0763-04 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.28		0.0999	mg/L	1	B5D2717	04/27/2025	04/30/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.243	mg/kg	1	B5D2848	04/28/2025	05/09/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2827	04/28/2025	04/28/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	105 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2802	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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Kyle Lawrence
Project Number: PROJ-054017
Project: PROJ-054017

GACO0426T069S030
4/26/2025 9:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0763-04 (Soil)									
Origins Laboratory									
GBTEX+TMBs by 8260D									
Surrogate: 1,2-Dichloroethane-d4	104 %			70-130		B5D2802	04/28/2025	04/28/2025	
Surrogate: Toluene-d8	98.2 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.2 %			70-130		"	"	"	
Metals by Saturated Paste by EPA 6010									
Calcium	2.98		0.499	meq/L	10	[CALC]	04/27/2025	04/30/2025	
Magnesium	2.37		0.823	"	"	"	"	"	
Sodium	11.1		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5D2821	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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Kyle Lawrence
Project Number: PROJ-054017
Project: PROJ-054017

GACO0426T069S030
4/26/2025 9:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0763-04 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Fluoranthene	ND		0.020	mg/kg	1	B5D2821	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	96.2 %			60-130		"	"	"	
Surrogate: Anthracene-d10	90.5 %			60-130		"	"	"	
Surrogate: Pyrene-d10	103 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	104 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	8.37			pH Units	1	B5D2723	04/27/2025	04/29/2025	
SAR by 20B Saturated Paste									
SAR	6.77		0.0100	SAR	1	B5D2711	04/27/2025	04/30/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	1.98		0.00500	mmhos/cm	1	B5D2723	04/27/2025	04/29/2025	
Table 915 metals by EPA 6020B									

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

GACO0426T069S030
4/26/2025 9:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0763-04 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	5.14		0.275	mg/kg	10	B5D2808	04/28/2025	04/29/2025	
Barium	116		9.48	"	"	"	"	"	"
Cadmium	0.238		0.0948	"	"	"	"	"	"
Copper	12.6		9.48	"	"	"	"	"	"
Lead	10.8		0.948	"	"	"	"	"	"
Nickel	9.57		0.948	"	"	"	"	"	"
Selenium	0.388		0.246	"	"	"	"	"	"
Silver	0.102		0.0948	"	"	"	"	"	"
Zinc	56.4		35.1	"	"	"	"	"	"

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

GACO0426T069S031
4/26/2025 9:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0763-05 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.51		0.100	mg/L	1	B5D2717	04/27/2025	04/30/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.249	mg/kg	1	B5D2848	04/28/2025	05/09/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2827	04/28/2025	04/28/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: <i>o</i> -Terphenyl	109 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2802	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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Kyle Lawrence
Project Number: PROJ-054017
Project: PROJ-054017

GACO0426T069S031
4/26/2025 9:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0763-05 (Soil)									
Origins Laboratory									
GBTEX+TMBs by 8260D									
Surrogate: 1,2-Dichloroethane-d4	108 %			70-130		B5D2802	04/28/2025	04/28/2025	
Surrogate: Toluene-d8	99.0 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	98.8 %			70-130		"	"	"	
Metals by Saturated Paste by EPA 6010									
Calcium	1.64		0.499	meq/L	10	[CALC]	04/27/2025	04/30/2025	
Magnesium	1.22		0.823	"	"	"	"	"	
Sodium	5.43		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5D2821	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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GACO0426T069S031
4/26/2025 9:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0763-05 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Fluoranthene	ND		0.020	mg/kg	1	B5D2821	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	100 %			60-130		"	"	"	
Surrogate: Anthracene-d10	91.9 %			60-130		"	"	"	
Surrogate: Pyrene-d10	93.9 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	104 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	8.43			pH Units	1	B5D2723	04/27/2025	04/29/2025	
SAR by 20B Saturated Paste									
SAR	4.54		0.0100	SAR	1	B5D2711	04/27/2025	04/30/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	1.02		0.00500	mmhos/cm	1	B5D2723	04/27/2025	04/29/2025	
Table 915 metals by EPA 6020B									

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GACO0426T069S031
4/26/2025 9:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0763-05 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	5.47		0.273	mg/kg	10	B5D2808	04/28/2025	04/29/2025	
Barium	280		9.41	"	"	"	"	"	"
Cadmium	0.258		0.0941	"	"	"	"	"	"
Copper	12.6		9.41	"	"	"	"	"	"
Lead	16.7		0.941	"	"	"	"	"	"
Nickel	10.1		0.941	"	"	"	"	"	"
Selenium	0.383		0.245	"	"	"	"	"	"
Silver	ND		0.0941	"	"	"	"	"	"
Zinc	51.4		34.8	"	"	"	"	"	"

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GACO0426T069S032
4/26/2025 9:42:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0763-06 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.812		0.0992	mg/L	1	B5D2717	04/27/2025	04/30/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.254	mg/kg	1	B5D2848	04/28/2025	05/09/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2827	04/28/2025	04/28/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: <i>o</i> -Terphenyl	108 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2802	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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North Little Rock AR 72118

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

GACO0426T069S032
4/26/2025 9:42:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0763-06 (Soil)									
Origins Laboratory									
GBTEX+TMBs by 8260D									
Surrogate: 1,2-Dichloroethane-d4	95.7 %			70-130		B5D2802	04/28/2025	04/28/2025	
Surrogate: Toluene-d8	96.4 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %			70-130		"	"	"	
Metals by Saturated Paste by EPA 6010									
Calcium	3.13		0.499	meq/L	10	[CALC]	04/27/2025	04/30/2025	
Magnesium	2.14		0.823	"	"	"	"	"	
Sodium	5.37		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5D2821	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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Project Number: PROJ-054017
Project: PROJ-054017

GACO0426T069S032
4/26/2025 9:42:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0763-06 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND		0.020	mg/kg	1	B5D2821	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	100 %			60-130		"	"	"	
Surrogate: Anthracene-d10	95.4 %			60-130		"	"	"	
Surrogate: Pyrene-d10	96.8 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.31			pH Units	1	B5D2723	04/27/2025	04/29/2025	
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SAR by 20B Saturated Paste


SAR	3.31		0.0100	SAR	1	B5D2711	04/27/2025	04/30/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.36		0.00500	mmhos/cm	1	B5D2723	04/27/2025	04/29/2025	
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Table 915 metals by EPA 6020B

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 Project: PROJ-054017

GACO0426T069S032
4/26/2025 9:42:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0763-06 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	5.10		0.253	mg/kg	10	B5D2808	04/28/2025	04/29/2025	
Barium	124		8.74	"	"	"	"	"	"
Cadmium	0.225		0.0874	"	"	"	"	"	"
Copper	10.0		8.74	"	"	"	"	"	"
Lead	6.74		0.874	"	"	"	"	"	"
Nickel	8.19		0.874	"	"	"	"	"	"
Selenium	0.470		0.227	"	"	"	"	"	"
Silver	ND		0.0874	"	"	"	"	"	"
Zinc	41.1		32.3	"	"	"	"	"	"

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5120 North Shore Drive
North Little Rock AR 72118

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

GACO0426T069T002
4/26/2025 7:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0763-07 (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

Origins Laboratory



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CTEH
5120 North Shore Drive
North Little Rock AR 72118

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

GACO0426T069T002
4/26/2025 7:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0763-07 (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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CTEH
5120 North Shore Drive
North Little Rock AR 72118

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

GACO0426T069T002
4/26/2025 7:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0763-07 (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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5120 North Shore Drive
North Little Rock AR 72118

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

GACO0426T069T002
4/26/2025 7:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0763-07 (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	103 %			70-130	"	"	"	04/28/2025	
Surrogate: Toluene-d8	99.8 %			70-130	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %			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
Batch B5D2848 - EPA 3060A										
Blank (B5D2848-BLK1)										
					Prepared: 04/28/2025 Analyzed: 05/09/2025					
Hexavalent Chromium	ND	0.250	mg/kg							
LCS (B5D2848-BS1)										
					Prepared: 04/28/2025 Analyzed: 05/09/2025					
Hexavalent Chromium	2.51	0.250	mg/kg	2.50		100	80-120			
Matrix Spike (B5D2848-MS1)										
		Source: E5D0750-06								
					Prepared: 04/28/2025 Analyzed: 05/09/2025					
Hexavalent Chromium	2.29	0.241	mg/kg	2.41	ND	94.8	75-125			
Matrix Spike (B5D2848-MS2)										
		Source: E5D0750-06								
					Prepared: 04/28/2025 Analyzed: 05/09/2025					
Hexavalent Chromium	227	24.7	mg/kg	265	ND	85.7	75-125			
Matrix Spike Dup (B5D2848-MSD1)										
		Source: E5D0750-06								
					Prepared: 04/28/2025 Analyzed: 05/09/2025					
Hexavalent Chromium	2.43	0.249	mg/kg	2.49	ND	97.6	75-125	5.96	200	
Post Spike (B5D2848-PS1)										
		Source: E5D0750-06								
					Prepared: 04/28/2025 Analyzed: 05/09/2025					
Hexavalent Chromium	54.2		ug/L	50.0	0.00	108	80-120			

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CTEH
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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 B5D2711 - Saturated Paste Metals

Blank (B5D2711-BLK1)

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

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

Duplicate (B5D2711-DUP1)

Source: E5D0762-03

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

SAR	ND	0.0100	SAR	1.60				200		
Calcium PPM	29.0	10.0	mg/L	48.8				50.9	50	QR-DUP
Magnesium PPM	10.1	10.0	"	17.8				55.0	50	QR-DUP
Sodium PPM	25.2	10.0	"	51.5				68.7	50	QR-DUP

Batch B5D2717 - DTPA Sorbitol Preparation

Blank (B5D2717-BLK1)

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

Boron	ND	0.100	mg/L							
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Duplicate (B5D2717-DUP1)

Source: E5D0762-02

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

Boron	0.996	0.100	mg/L	1.08				8.19	50	
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CTEH
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 North Little Rock AR 72118

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 B5D2821 - EPA 3580

Blank (B5D2821-BLK1)

Prepared: 04/28/2025 Analyzed: 04/30/2025

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		93.6	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

LCS (B5D2821-BS1)

Prepared: 04/28/2025 Analyzed: 04/30/2025

1-Methylnaphthalene	0.185	0.002	mg/kg	0.200		92.5	70-130			
2-Methylnaphthalene	0.180	0.002	"	0.200		89.9	70-130			
Acenaphthene	0.198	0.020	"	0.200		98.8	70-130			
Anthracene	0.201	0.020	"	0.200		100	70-130			

Origins Laboratory

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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 B5D2821 - EPA 3580

LCS (B5D2821-BS1)

Prepared: 04/28/2025 Analyzed: 04/30/2025

Benzo (a) anthracene	0.194	0.005	mg/kg	0.200		96.9	70-130			
Benzo (a) pyrene	0.201	0.020	"	0.200		100	70-130			
Benzo (b) fluoranthene	0.204	0.020	"	0.200		102	70-130			
Benzo (g,h,i) perylene	0.205	0.020	"	0.200		103	70-130			
Benzo (k) fluoranthene	0.199	0.020	"	0.200		99.6	70-130			
Chrysene	0.196	0.020	"	0.200		98.0	70-130			
Dibenz (a,h) anthracene	0.226	0.020	"	0.200		113	70-130			
Fluoranthene	0.211	0.020	"	0.200		105	70-130			
Fluorene	0.193	0.020	"	0.200		96.7	70-130			
Indeno (1,2,3-cd) pyrene	0.208	0.020	"	0.200		104	70-130			
Naphthalene	0.197	0.002	"	0.200		98.6	70-130			
Phenanthrene	0.189	0.020	"	0.200		94.5	70-130			
Pyrene	0.213	0.020	"	0.200		106	70-130			

Surrogate: Fluorene-d10	190		ug/kg	200		94.5	60-130			
Surrogate: Anthracene-d10	200		"	200		99.1	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

Matrix Spike (B5D2821-MS1)

Source: E5D0763-01

Prepared: 04/28/2025 Analyzed: 04/30/2025

1-Methylnaphthalene	0.189	0.002	mg/kg	0.200	ND	94.3	70-130			
2-Methylnaphthalene	0.193	0.002	"	0.200	0.002	95.6	70-130			
Acenaphthene	0.200	0.020	"	0.200	ND	99.8	70-130			
Anthracene	0.202	0.020	"	0.200	0.0006	101	70-130			
Benzo (a) anthracene	0.211	0.005	"	0.200	ND	105	70-130			
Benzo (a) pyrene	0.212	0.020	"	0.200	0.0007	106	70-130			
Benzo (b) fluoranthene	0.222	0.020	"	0.200	0.0008	111	70-130			
Benzo (g,h,i) perylene	0.192	0.020	"	0.200	0.0008	95.7	70-130			

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North Little Rock AR 72118

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 B5D2821 - EPA 3580

Matrix Spike (B5D2821-MS1)		Source: E5D0763-01			Prepared: 04/28/2025 Analyzed: 04/30/2025					
Benzo (k) fluoranthene	0.204	0.020	mg/kg	0.200	0.001	101	70-130			
Chrysene	0.205	0.020	"	0.200	0.0006	102	70-130			
Dibenz (a,h) anthracene	0.217	0.020	"	0.200	0.0006	108	70-130			
Fluoranthene	0.211	0.020	"	0.200	0.0005	105	70-130			
Fluorene	0.201	0.020	"	0.200	ND	101	70-130			
Indeno (1,2,3-cd) pyrene	0.193	0.020	"	0.200	0.002	95.8	70-130			
Naphthalene	0.199	0.002	"	0.200	ND	99.5	70-130			
Phenanthrene	0.206	0.020	"	0.200	ND	103	70-130			
Pyrene	0.210	0.020	"	0.200	ND	105	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.4	60-130			
Surrogate: Anthracene-d10	190		"	200		94.3	60-130			
Surrogate: Pyrene-d10	200		"	200		98.6	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

Matrix Spike Dup (B5D2821-MSD1)		Source: E5D0763-01			Prepared: 04/28/2025 Analyzed: 04/30/2025					
1-Methylnaphthalene	0.182	0.002	mg/kg	0.200	ND	91.2	70-130	3.38	20	
2-Methylnaphthalene	0.184	0.002	"	0.200	0.002	91.1	70-130	4.73	20	
Acenaphthene	0.197	0.020	"	0.200	ND	98.7	70-130	1.11	20	
Anthracene	0.194	0.020	"	0.200	0.0006	96.7	70-130	3.84	20	
Benzo (a) anthracene	0.205	0.005	"	0.200	ND	102	70-130	3.03	20	
Benzo (a) pyrene	0.206	0.020	"	0.200	0.0007	103	70-130	2.79	20	
Benzo (b) fluoranthene	0.223	0.020	"	0.200	0.0008	111	70-130	0.465	20	
Benzo (g,h,i) perylene	0.190	0.020	"	0.200	0.0008	94.8	70-130	0.917	20	
Benzo (k) fluoranthene	0.192	0.020	"	0.200	0.001	95.3	70-130	6.08	20	
Chrysene	0.206	0.020	"	0.200	0.0006	103	70-130	0.778	20	
Dibenz (a,h) anthracene	0.218	0.020	"	0.200	0.0006	109	70-130	0.140	20	
Fluoranthene	0.203	0.020	"	0.200	0.0005	101	70-130	3.77	20	

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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 B5D2821 - EPA 3580

Matrix Spike Dup (B5D2821-MSD1)

Source: E5D0763-01

Prepared: 04/28/2025 Analyzed: 04/30/2025

Fluorene	0.201	0.020	mg/kg	0.200	ND	100	70-130	0.118	20	
Indeno (1,2,3-cd) pyrene	0.194	0.020	"	0.200	0.002	96.0	70-130	0.258	20	
Naphthalene	0.193	0.002	"	0.200	ND	96.7	70-130	2.88	20	
Phenanthrene	0.200	0.020	"	0.200	ND	100	70-130	2.63	20	
Pyrene	0.198	0.020	"	0.200	ND	99.0	70-130	5.94	20	
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	190		"	200		94.4	60-130			
Surrogate: Pyrene-d10	190		"	200		95.0	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

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 North Little Rock AR 72118

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 B5D2827 - EPA 3550B										
Blank (B5D2827-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	28		"	24.9		112	50-150			
LCS (B5D2827-BS1)										
						Prepared: 04/28/2025 Analyzed: 04/28/2025				
Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	70-130			
Residual Range Organics (C28-C40)	998	200	"	1000		99.8	70-130			
Surrogate: o-Terphenyl	57		"	49.8		114	50-150			
Matrix Spike (B5D2827-MS1)										
			Source: E5D0762-03			Prepared: 04/28/2025 Analyzed: 04/28/2025				
Diesel (C10-C28)	1030	50.0	mg/kg	1000	ND	103	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130			
Surrogate: o-Terphenyl	65		"	49.8		130	50-150			
Matrix Spike Dup (B5D2827-MSD1)										
			Source: E5D0762-03			Prepared: 04/28/2025 Analyzed: 04/28/2025				
Diesel (C10-C28)	1200	50.0	mg/kg	1000	ND	120	70-130	14.9	35	
Residual Range Organics (C28-C40)	1200	200	"	1000	ND	120	70-130	13.3	35	
Surrogate: o-Terphenyl	59		"	49.8		118	50-150			

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CTEH
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 North Little Rock AR 72118

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

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 B5D2808 - EPA 3050B

Blank (B5D2808-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 (B5D2808-BS1)

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

Arsenic	5.25	0.290	mg/kg	5.00		105	80-120			
Barium	502	10.0	"	500		100	80-120			
Cadmium	5.83	0.100	"	5.00		117	80-120			
Copper	54.5	10.0	"	50.0		109	80-120			
Lead	5.31	1.00	"	5.00		106	80-120			
Nickel	5.51	1.00	"	5.00		110	80-120			
Selenium	5.37	0.260	"	5.00		107	80-120			
Silver	5.64	0.100	"	5.00		113	80-120			
Zinc	54.0	37.0	"	50.0		108	80-120			

Matrix Spike (B5D2808-MS1)

Source: E5D0762-01

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

Arsenic	9.92	0.258	mg/kg	4.46	5.37	102	75-125			
Barium	524	8.91	"	446	84.8	98.5	75-125			
Cadmium	4.96	0.0891	"	4.46	0.265	105	75-125			
Copper	54.2	8.91	"	44.6	9.96	99.3	75-125			
Lead	13.6	0.891	"	4.46	8.75	108	75-125			

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Kyle Lawrence
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 Project: PROJ-054017

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 B5D2808 - EPA 3050B

Matrix Spike (B5D2808-MS1)

Source: E5D0762-01

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

Nickel	13.0	0.891	mg/kg	4.46	8.23	107	75-125			
Selenium	4.74	0.232	"	4.46	0.362	98.2	75-125			
Silver	4.63	0.0891	"	4.46	0.0310	103	75-125			
Zinc	94.9	33.0	"	44.6	50.8	98.9	75-125			

Matrix Spike Dup (B5D2808-MSD1)

Source: E5D0762-01

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

Arsenic	12.9	0.288	mg/kg	4.97	5.37	152	75-125	26.4	20	QM-07, QR-DUP
Barium	578	9.94	"	497	84.8	99.3	75-125	9.95	20	
Cadmium	5.71	0.0994	"	4.97	0.265	109	75-125	13.9	20	
Copper	63.3	9.94	"	49.7	9.96	107	75-125	15.4	20	
Lead	14.7	0.994	"	4.97	8.75	120	75-125	8.27	20	
Nickel	17.2	0.994	"	4.97	8.23	181	75-125	28.0	20	QM-07, QR-DUP
Selenium	5.40	0.259	"	4.97	0.362	101	75-125	13.0	20	
Silver	5.31	0.0994	"	4.97	0.0310	106	75-125	13.6	20	
Zinc	120	36.8	"	49.7	50.8	139	75-125	23.3	20	QM-07, QR-DUP

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 Project: PROJ-054017

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 B5D2723 - Saturated Paste pH/EC

Blank (B5D2723-BLK1)

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

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B5D2723-DUP1)

Source: E5D0762-03

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

pH	8.17		pH Units		8.05			1.48	25	
Specific Conductance (EC)	0.380	0.00500	mmhos/cm		0.742			64.6	25	QR-DUP

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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 B5D2802 - EPA 5030 (soil)

Blank (B5D2802-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	0.11	"	0.125	87.2	70-130
Surrogate: Toluene-d8	0.12	"	0.125	98.1	70-130
Surrogate: 4-Bromofluorobenzene	0.12	"	0.125	99.5	70-130

LCS (B5D2802-BS1)

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

1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100	111	70-130
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100	109	70-130
Benzene	0.0959	0.00200	"	0.100	95.9	70-130
Ethylbenzene	0.100	0.00200	"	0.100	100	70-130
Naphthalene	0.0951	0.00380	"	0.100	95.1	70-130
Toluene	0.0960	0.00200	"	0.100	96.0	70-130
o-Xylene	0.105	0.00200	"	0.100	105	70-130
m,p-Xylene	0.203	0.00400	"	0.200	101	70-130

Surrogate: 1,2-Dichloroethane-d4	0.12	"	0.125	93.4	70-130
Surrogate: Toluene-d8	0.12	"	0.125	98.4	70-130
Surrogate: 4-Bromofluorobenzene	0.12	"	0.125	94.0	70-130

Matrix Spike (B5D2802-MS1)

Source: E5D0762-01

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

1,2,4-Trimethylbenzene	0.0836	0.00200	mg/kg	0.100	ND	83.6	70-130
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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 B5D2802 - EPA 5030 (soil)

Matrix Spike (B5D2802-MS1)		Source: E5D0762-01			Prepared: 04/28/2025 Analyzed: 04/28/2025					
1,3,5-Trimethylbenzene	0.0821	0.00200	mg/kg	0.100	ND	82.1	70-130			
Benzene	0.0885	0.00200	"	0.100	ND	88.5	70-130			
Ethylbenzene	0.0901	0.00200	"	0.100	ND	90.1	70-130			
Naphthalene	0.0561	0.00380	"	0.100	ND	56.1	70-130			QM-07
Toluene	0.0843	0.00200	"	0.100	ND	84.3	70-130			
o-Xylene	0.0924	0.00200	"	0.100	ND	92.4	70-130			
m,p-Xylene	0.180	0.00400	"	0.200	ND	90.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.7	70-130			

Matrix Spike Dup (B5D2802-MSD1)		Source: E5D0762-01			Prepared: 04/28/2025 Analyzed: 04/28/2025					
1,2,4-Trimethylbenzene	0.0763	0.00200	mg/kg	0.100	ND	76.3	70-130	9.13	20	
1,3,5-Trimethylbenzene	0.0747	0.00200	"	0.100	ND	74.7	70-130	9.44	20	
Benzene	0.0836	0.00200	"	0.100	ND	83.6	70-130	5.70	20	
Ethylbenzene	0.0820	0.00200	"	0.100	ND	82.0	70-130	9.51	20	
Naphthalene	0.0579	0.00380	"	0.100	ND	57.9	70-130	3.12	20	QM-07
Toluene	0.0791	0.00200	"	0.100	ND	79.1	70-130	6.34	20	
o-Xylene	0.0847	0.00200	"	0.100	ND	84.7	70-130	8.65	20	
m,p-Xylene	0.164	0.00400	"	0.200	ND	82.2	70-130	9.23	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.9	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
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

1,1,1-Trichloroethane	ND	1.00	ug/L							U
1,1,1,2-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
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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

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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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

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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CTEH
5120 North Shore Drive
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)

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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Kyle Lawrence
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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)

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 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)

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

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