ORIGINS LABORATORY

CTEH
Kyle Lawrence
5120 North Shore Drive
North Little Rock AR 72118

June 09, 2025

Project Name - PROJ-054017 **Project Number - PROJ-054017**

Attached are your analytical results for PROJ-054017 received by Origins Laboratory April 30, 2025. This project is associated with Origins project number E5E0008-01.

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

THE NELAC INSTITUTE

ORIGINS LABORATORY

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
GACO0430T032S001	E5E0008-01	Soil	April 30, 2025 10:10	04/30/2025 20:40
GACO0430T032S002	E5E0008-02	Soil	April 30, 2025 10:30	04/30/2025 20:40
GACO0430T032S003	E5E0008-03	Soil	April 30, 2025 10:55	04/30/2025 20:40
GACO0430T032S004	E5E0008-04	Soil	April 30, 2025 11:15	04/30/2025 20:40
GACO0430T032C004	E5E0008-05	Soil	April 30, 2025 11:15	04/30/2025 20:40
GACO0430T032T001	E5E0008-06	Water	April 30, 2025 7:30	04/30/2025 20:40

All Chromium Hexavalent samples in this workorder were prepared by EPA 3060A at Enthalpy Denver and analyzed by EPA 7199 at subcontract lab: Enthalpy Richmond. Both laboratories are TNI accredited for this analysis and meets statutory and regulatory requirements for this analysis. See NCM E25005.

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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Project Number: PROJ-054017
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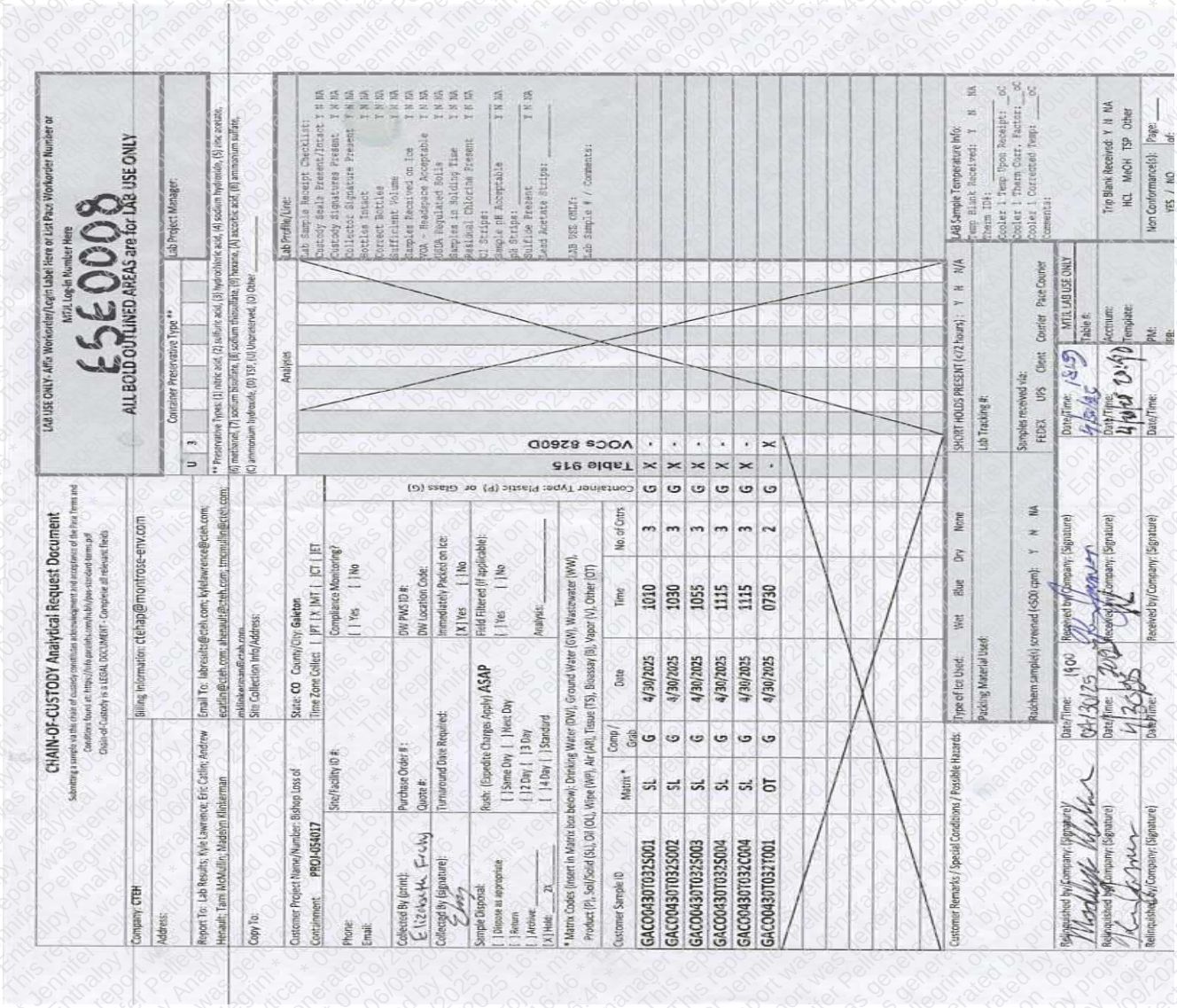

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CTEH
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Project Number: PROJ-054017
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Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: ESE0008 Client: CTEH
Client Project ID: Bishop Loss of Containment

Checklist Completed by: NKM/NKM Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 05/01/25 Airbill #: N/A

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

Cooler Number/Temperature: 1 / -0.3 °c

Thermometer ID: T-007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C[1]?		—		
Is there ice present (document if blue ice is used)	—			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		—		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		—		
Were all samples received intact[1]?	—			
Was adequate sample volume provided[1]?	—			
Are short holding time analytes or samples with HTs due within 48 hours present[1]?		—		
Is a chain-of-custody (COC) present and filled out completely[1]?	—			
Does the COC agree with the number and type of sample bottles received[1]?	—			
Do the sample IDs on the bottle labels match the COC[1]?	—			
Is the COC properly relinquished by the client with date and time recorded[1]?	—			
For volatiles in water – is there headspace (> ¼ inch bubble) present? **If yes, contact client and note in narrative.**		—		
Are samples preserved that require preservation and was it checked[1]? *(note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)*	—			NC
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.*

NKM — Reviewed by (Project Manager)
05/01/25 — Date/Time Reviewed

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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CTEH
5120 North Shore Drive
North Little Rock AR 72118

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

GACO0430T032S001
4/30/2025 10:10:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0008-01 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.45		0.0997	mg/L	1	B5E0109	05/01/2025	05/05/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.256	mg/kg	1	B5E0123	05/01/2025	05/21/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E0125	05/01/2025	05/01/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	*91.2 %*			*50-150*		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0131	05/01/2025	05/01/2025	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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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

GACO0430T032S001
4/30/2025 10:10:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0008-01 (Soil)									
Origins Laboratory									
GBTEX+TMBs by 8260D									
Surrogate: 1,2-Dichloroethane-d4	*86.3 %*			*70-130*		*B5E0131*	*05/01/2025*	*05/01/2025*	
Surrogate: Toluene-d8	*95.2 %*			*70-130*		"	"	"	
Surrogate: 4-Bromofluorobenzene	*105 %*			*70-130*		"	"	"	
Metals by Saturated Paste by EPA 6010									
Calcium	3.65		0.499	meq/L	10	[CALC]	05/01/2025	05/05/2025	
Magnesium	2.38		0.823	"	"	"	"	"	
Sodium	2.50		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0139	05/01/2025	05/01/2025	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
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GACO0430T032S001
4/30/2025 10:10:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0008-01 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Fluoranthene	ND		0.020	mg/kg	1	B5E0139	05/01/2025	05/01/2025	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	*97.8 %*			*60-130*		"	"	"	
Surrogate: Anthracene-d10	*97.7 %*			*60-130*		"	"	"	
Surrogate: Pyrene-d10	*102 %*			*60-130*		"	"	"	
Surrogate: Benzo (a) pyrene-d12	*99.4 %*			*60-130*		"	"	"	
pH in Soil by 9045D									
pH	8.24			pH Units	1	B5E0117	05/01/2025	05/02/2025	
SAR by 20B Saturated Paste									
SAR	1.44		0.0100	SAR	1	B5E0105	05/01/2025	05/05/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	1.01		0.00500	mmhos/cm	1	B5E0117	05/01/2025	05/02/2025	
Table 915 metals by EPA 6020B									

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

GACO0430T032S001
4/30/2025 10:10:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0008-01 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	5.88		0.254	mg/kg	10	B5E0133	05/01/2025	05/02/2025	
Barium	92.1		71.7	"	"	"	"	"	
Cadmium	ND		0.332	"	"	"	"	"	U
Copper	ND		40.2	"	"	"	"	"	U
Lead	ND		12.2	"	"	"	"	"	U
Nickel	ND		22.7	"	"	"	"	"	U
Selenium	0.429		0.227	"	"	"	"	"	
Silver	ND		0.699	"	"	"	"	"	U
Zinc	ND		323	"	"	"	"	"	U

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Project Number: PROJ-054017
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GACO0430T032S002
4/30/2025 10:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0008-02 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	ND		0.100	mg/L	1	B5E0109	05/01/2025	05/05/2025	U
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.246	mg/kg	1	B5E0123	05/01/2025	05/21/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E0125	05/01/2025	05/01/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	*85.8 %*			*50-150*		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0131	05/01/2025	05/01/2025	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

GACO0430T032S002
4/30/2025 10:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0008-02 (Soil)									
Origins Laboratory									
GBTEX+TMBs by 8260D									
Surrogate: 1,2-Dichloroethane-d4	*86.8 %*			*70-130*		*B5E0131*	*05/01/2025*	*05/01/2025*	
Surrogate: Toluene-d8	*95.7 %*			*70-130*		"	"	"	
Surrogate: 4-Bromofluorobenzene	*100 %*			*70-130*		"	"	"	
Metals by Saturated Paste by EPA 6010									
Calcium	0.921		0.499	meq/L	10	[CALC]	05/01/2025	05/05/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0139	05/01/2025	05/01/2025	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

GACO0430T032S002
4/30/2025 10:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0008-02 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Fluoranthene	ND		0.020	mg/kg	1	B5E0139	05/01/2025	05/01/2025	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	*97.6 %*			*60-130*		"	"	"	
Surrogate: Anthracene-d10	*98.1 %*			*60-130*		"	"	"	
Surrogate: Pyrene-d10	*107 %*			*60-130*		"	"	"	
Surrogate: Benzo (a) pyrene-d12	*99.9 %*			*60-130*		"	"	"	
pH in Soil by 9045D									
pH	8.21			pH Units	1	B5E0117	05/01/2025	05/02/2025	
SAR by 20B Saturated Paste									
SAR	0.109		0.0100	SAR	1	B5E0105	05/01/2025	05/05/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.161		0.00500	mmhos/cm	1	B5E0117	05/01/2025	05/02/2025	
Table 915 metals by EPA 6020B									

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North Little Rock AR 72118

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

GACO0430T032S002
4/30/2025 10:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0008-02 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	1.87		0.254	mg/kg	10	B5E0133	05/01/2025	05/02/2025	
Barium	ND		71.7	"	"	"	"	"	U
Cadmium	ND		0.332	"	"	"	"	"	U
Copper	ND		40.2	"	"	"	"	"	U
Lead	ND		12.2	"	"	"	"	"	U
Nickel	ND		22.7	"	"	"	"	"	U
Selenium	ND		0.227	"	"	"	"	"	U
Silver	ND		0.700	"	"	"	"	"	U
Zinc	ND		324	"	"	"	"	"	U

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North Little Rock AR 72118

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Project Number: PROJ-054017
Project: PROJ-054017

GACO0430T032S003
4/30/2025 10:55:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0008-03 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.11		0.100	mg/L	1	B5E0109	05/01/2025	05/05/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.253	mg/kg	1	B5E0123	05/01/2025	05/21/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E0125	05/01/2025	05/01/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	*114 %*			*50-150*		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0131	05/01/2025	05/01/2025	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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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

GACO0430T032S003
4/30/2025 10:55:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0008-03 (Soil)									
Origins Laboratory									
GBTEX+TMBs by 8260D									
Surrogate: 1,2-Dichloroethane-d4	*86.7 %*			*70-130*		*B5E0131*	*05/01/2025*	*05/01/2025*	
Surrogate: Toluene-d8	*94.1 %*			*70-130*		*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene	*102 %*			*70-130*		*"*	*"*	*"*	
Metals by Saturated Paste by EPA 6010									
Calcium	2.17		0.499	meq/L	10	[CALC]	05/01/2025	05/05/2025	
Magnesium	0.999		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0139	05/01/2025	05/01/2025	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

GACO0430T032S003
4/30/2025 10:55:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0008-03 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Fluoranthene	ND		0.020	mg/kg	1	B5E0139	05/01/2025	05/01/2025	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	*97.7 %*			*60-130*		"	"	"	
Surrogate: Pyrene-d10	*104 %*			*60-130*		"	"	"	
Surrogate: Benzo (a) pyrene-d12	*101 %*			*60-130*		"	"	"	
pH in Soil by 9045D									
pH	8.17			pH Units	1	B5E0117	05/01/2025	05/02/2025	
SAR by 20B Saturated Paste									
SAR	0.202		0.0100	SAR	1	B5E0105	05/01/2025	05/05/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.531		0.00500	mmhos/cm	1	B5E0117	05/01/2025	05/02/2025	
Table 915 metals by EPA 6020B									

Origins Laboratory

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Jen Pellegrini For Jordan A. Bynon, Project Manager

CTEH
5120 North Shore Drive
North Little Rock AR 72118

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

GACO0430T032S003
4/30/2025 10:55:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0008-03 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	4.02		0.256	mg/kg	10	B5E0133	05/01/2025	05/02/2025	
Barium	91.5		72.4	"	"	"	"	"	
Cadmium	ND		0.336	"	"	"	"	"	U
Copper	ND		40.6	"	"	"	"	"	U
Lead	ND		12.4	"	"	"	"	"	U
Nickel	ND		23.0	"	"	"	"	"	U
Selenium	0.255		0.230	"	"	"	"	"	
Silver	ND		0.707	"	"	"	"	"	U
Zinc	ND		327	"	"	"	"	"	U

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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CTEH
5120 North Shore Drive
North Little Rock AR 72118

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

GACO0430T032S004
4/30/2025 11:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0008-04 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.897		0.100	mg/L	1	B5E0109	05/01/2025	05/05/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.250	mg/kg	1	B5E0123	05/01/2025	05/21/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E0125	05/01/2025	05/01/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	*98.9 %*			*50-150*		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0131	05/01/2025	05/02/2025	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

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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CTEH
5120 North Shore Drive
North Little Rock AR 72118

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

GACO0430T032S004
4/30/2025 11:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0008-04 (Soil)									
Origins Laboratory									
GBTEX+TMBs by 8260D									
Surrogate: 1,2-Dichloroethane-d4	*86.7 %*			*70-130*		*B5E0131*	*05/01/2025*	*05/02/2025*	
Surrogate: Toluene-d8	*96.4 %*			*70-130*		*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene	*100 %*			*70-130*		*"*	*"*	*"*	
Metals by Saturated Paste by EPA 6010									
Calcium	2.77		0.499	meq/L	10	[CALC]	05/01/2025	05/05/2025	
Magnesium	1.77		0.823	"	"	"	"	"	
Sodium	2.24		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0139	05/01/2025	05/01/2025	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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Jen Pellegrini For Jordan A. Bynon, Project Manager

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CTEH
5120 North Shore Drive
North Little Rock AR 72118

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

GACO0430T032S004
4/30/2025 11:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0008-04 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Fluoranthene	ND		0.020	mg/kg	1	B5E0139	05/01/2025	05/01/2025	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	*97.8 %*			*60-130*		"	"	"	
Surrogate: Anthracene-d10	*99.2 %*			*60-130*		"	"	"	
Surrogate: Pyrene-d10	*104 %*			*60-130*		"	"	"	
Surrogate: Benzo (a) pyrene-d12	*99.6 %*			*60-130*		"	"	"	
pH in Soil by 9045D									
pH	8.33			pH Units	1	B5E0117	05/01/2025	05/02/2025	
SAR by 20B Saturated Paste									
SAR	1.49		0.0100	SAR	1	B5E0105	05/01/2025	05/05/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.835		0.00500	mmhos/cm	1	B5E0117	05/01/2025	05/02/2025	
Table 915 metals by EPA 6020B									

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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CTEH
5120 North Shore Drive
North Little Rock AR 72118

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

GACO0430T032S004
4/30/2025 11:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0008-04 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	3.43		0.256	mg/kg	10	B5E0133	05/01/2025	05/02/2025	
Barium	92.4		72.5	"	"	"	"	"	
Cadmium	ND		0.336	"	"	"	"	"	U
Copper	ND		40.6	"	"	"	"	"	U
Lead	ND		12.4	"	"	"	"	"	U
Nickel	ND		23.0	"	"	"	"	"	U
Selenium	ND		0.230	"	"	"	"	"	U
Silver	ND		0.707	"	"	"	"	"	U
Zinc	ND		327	"	"	"	"	"	U

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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CTEH
5120 North Shore Drive
North Little Rock AR 72118

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

GACO0430T032C004
4/30/2025 11:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0008-05 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.873		0.0998	mg/L	1	B5E0109	05/01/2025	05/05/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.259	mg/kg	1	B5E0123	05/01/2025	05/21/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E0125	05/01/2025	05/01/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	*85.9 %*			*50-150*		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0131	05/01/2025	05/02/2025	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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Jen Pellegrini For Jordan A. Bynon, Project Manager

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North Little Rock AR 72118

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

GACO0430T032C004
4/30/2025 11:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0008-05 (Soil)									
Origins Laboratory									
GBTEX+TMBs by 8260D									
Surrogate: 1,2-Dichloroethane-d4	*85.2 %*			*70-130*		*B5E0131*	*05/01/2025*	*05/02/2025*	
Surrogate: Toluene-d8	*94.4 %*			*70-130*		*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene	*104 %*			*70-130*		*"*	*"*	*"*	
Metals by Saturated Paste by EPA 6010									
Calcium	3.05		0.499	meq/L	10	[CALC]	05/01/2025	05/05/2025	
Magnesium	1.90		0.823	"	"	"	"	"	
Sodium	2.12		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0139	05/01/2025	05/01/2025	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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Jen Pellegrini For Jordan A. Bynon, Project Manager

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North Little Rock AR 72118

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

GACO0430T032C004
4/30/2025 11:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0008-05 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Fluoranthene	ND		0.020	mg/kg	1	B5E0139	05/01/2025	05/01/2025	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	*97.4 %*			*60-130*		"	"	"	
Surrogate: Anthracene-d10	*98.1 %*			*60-130*		"	"	"	
Surrogate: Pyrene-d10	*103 %*			*60-130*		"	"	"	
Surrogate: Benzo (a) pyrene-d12	*101 %*			*60-130*		"	"	"	
pH in Soil by 9045D									
pH	8.17			pH Units	1	B5E0117	05/01/2025	05/02/2025	
SAR by 20B Saturated Paste									
SAR	1.35		0.0100	SAR	1	B5E0105	05/01/2025	05/05/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.934		0.00500	mmhos/cm	1	B5E0117	05/01/2025	05/02/2025	
Table 915 metals by EPA 6020B									

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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CTEH
5120 North Shore Drive
North Little Rock AR 72118

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

GACO0430T032C004
4/30/2025 11:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0008-05 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	3.66		0.253	mg/kg	10	B5E0133	05/01/2025	05/02/2025	
Barium	79.6		71.5	"	"	"	"	"	
Cadmium	ND		0.331	"	"	"	"	"	U
Copper	ND		40.1	"	"	"	"	"	U
Lead	ND		12.2	"	"	"	"	"	U
Nickel	ND		22.7	"	"	"	"	"	U
Selenium	0.255		0.227	"	"	"	"	"	
Silver	ND		0.697	"	"	"	"	"	U
Zinc	ND		322	"	"	"	"	"	U

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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CTEH
5120 North Shore Drive
North Little Rock AR 72118

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

GACO0430T032T001
4/30/2025 7:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0008-06 (Water)									
Origins Laboratory									
VOC by EPA 8260D									
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L	1	B5E0227	05/02/2025	05/02/2025	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

Jen Pellegrini For Jordan A. Bynon, Project Manager

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CTEH
5120 North Shore Drive
North Little Rock AR 72118

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

GACO0430T032T001
4/30/2025 7:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0008-06 (Water)									
Origins Laboratory									
VOC by EPA 8260D									
1,4-Dichlorobenzene	ND		1.00	ug/L	1	B5E0227	05/02/2025	05/02/2025	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	"	"	"	"	"	U
Carbon disulfide	ND		5.00	"	"	"	"	"	U
Carbon tetrachloride	ND		1.00	"	"	"	"	"	U
Chlorobenzene	ND		1.00	"	"	"	"	"	U
Chloroethane	ND		1.00	"	"	"	"	"	U

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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CTEH
5120 North Shore Drive
North Little Rock AR 72118

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

GACO0430T032T001
4/30/2025 7:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0008-06 (Water)									
Origins Laboratory									
VOC by EPA 8260D									
Chloroform	ND		1.00	ug/L	1	B5E0227	05/02/2025	05/02/2025	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
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
sec-Butylbenzene	ND		1.00	"	"	"	"	"	U
Styrene	ND		1.00	"	"	"	"	"	U
tert-Butylbenzene	ND		1.00	"	"	"	"	"	U
Tetrachloroethene	ND		1.00	"	"	"	"	"	U

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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CTEH
5120 North Shore Drive
North Little Rock AR 72118

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

GACO0430T032T001
4/30/2025 7:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0008-06 (Water)									
Origins Laboratory									
VOC by EPA 8260D									
Toluene	ND		1.00	ug/L	1	B5E0227	05/02/2025	05/02/2025	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
o-Xylene	ND		1.00	"	"	"	"	"	U
m,p-Xylene	ND		2.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	*98.8 %*			*70-130*		"	"	"	
Surrogate: Toluene-d8	*95.3 %*			*70-130*		"	"	"	
Surrogate: 4-Bromofluorobenzene	*105 %*			*70-130*		"	"	"	

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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CTEH
5120 North Shore Drive
North Little Rock AR 72118

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 B5E0123 - EPA 3060A										
Blank (B5E0123-BLK1)					Prepared: 05/01/2025 Analyzed: 05/21/2025					
Hexavalent Chromium	ND	0.250	mg/kg							U
LCS (B5E0123-BS1)					Prepared: 05/01/2025 Analyzed: 05/21/2025					
Hexavalent Chromium	2.42	0.250	mg/kg	2.50		97.0	80-120			
Matrix Spike (B5E0123-MS1)		**Source: E5E0009-03**			Prepared: 05/01/2025 Analyzed: 05/21/2025					**QM-14**
Hexavalent Chromium	0.437	0.259	mg/kg	2.59	ND	16.9	75-125			
Matrix Spike (B5E0123-MS2)		**Source: E5E0009-03**			Prepared: 05/01/2025 Analyzed: 05/21/2025					**QM-14**
Hexavalent Chromium	179	24.0	mg/kg	246	ND	72.9	75-125			
Matrix Spike Dup (B5E0123-MSD1)		**Source: E5E0009-03**			Prepared: 05/01/2025 Analyzed: 05/21/2025					**QM-14, QR-03**
Hexavalent Chromium	0.157	0.258	mg/kg	2.58	ND	6.08	75-125	94.4	200	U
Post Spike (B5E0123-PS1)		**Source: E5E0009-03**			Prepared: 05/01/2025 Analyzed: 05/29/2025					**QM-11**
Hexavalent Chromium	126		ug/L	100	0.00	126	80-120			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

CTEH
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North Little Rock AR 72118

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
Batch B5E0105 - Saturated Paste Metals										
Blank (B5E0105-BLK1)					Prepared: 05/01/2025 Analyzed: 05/05/2025					
SAR	ND	0.0100	SAR							U
Calcium PPM	ND	10.0	mg/L							U
Magnesium PPM	ND	10.0	"							U
Sodium PPM	ND	10.0	"							U
Duplicate (B5E0105-DUP1)		**Source: E5E0009-03**			Prepared: 05/01/2025 Analyzed: 05/05/2025					
SAR	ND	0.0100	SAR		ND				200	U
Calcium PPM	35.3	10.0	mg/L		49.4			33.1	50	
Magnesium PPM	26.6	10.0	"		39.7			39.5	50	
Sodium PPM	233	10.0	"		301			25.5	50	
Batch B5E0109 - DTPA Sorbitol Preparation										
Blank (B5E0109-BLK1)					Prepared: 05/01/2025 Analyzed: 05/05/2025					
Boron	ND	0.100	mg/L							U
Duplicate (B5E0109-DUP1)		**Source: E5E0009-03**			Prepared: 05/01/2025 Analyzed: 05/05/2025					
Boron	2.02	0.0997	mg/L		1.96			3.21	50	

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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
Batch B5E0139 - EPA 3580										
Blank (B5E0139-BLK1)				Prepared: 05/01/2025 Analyzed: 05/01/2025						
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	*200*		*ug/kg*	*200*		*98.7*	*60-130*			
Surrogate: Anthracene-d10	*200*		*"*	*200*		*98.4*	*60-130*			
Surrogate: Pyrene-d10	*210*		*"*	*200*		*107*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*200*		*"*	*200*		*100*	*60-130*			
LCS (B5E0139-BS1)				Prepared: 05/01/2025 Analyzed: 05/01/2025						
1-Methylnaphthalene	0.180	0.002	mg/kg	0.200		89.9	70-130			
2-Methylnaphthalene	0.180	0.002	"	0.200		90.2	70-130			
Acenaphthene	0.184	0.020	"	0.200		92.1	70-130			
Anthracene	0.176	0.020	"	0.200		88.1	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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
Batch B5E0139 - EPA 3580										
LCS (B5E0139-BS1)					Prepared: 05/01/2025 Analyzed: 05/01/2025					
Benzo (a) anthracene	0.186	0.005	mg/kg	0.200		92.8	70-130			
Benzo (a) pyrene	0.185	0.020	"	0.200		92.7	70-130			
Benzo (b) fluoranthene	0.191	0.020	"	0.200		95.5	70-130			
Benzo (g,h,i) perylene	0.203	0.020	"	0.200		102	70-130			
Benzo (k) fluoranthene	0.188	0.020	"	0.200		93.9	70-130			
Chrysene	0.185	0.020	"	0.200		92.6	70-130			
Dibenz (a,h) anthracene	0.193	0.020	"	0.200		96.5	70-130			
Fluoranthene	0.200	0.020	"	0.200		100	70-130			
Fluorene	0.180	0.020	"	0.200		89.8	70-130			
Indeno (1,2,3-cd) pyrene	0.191	0.020	"	0.200		95.7	70-130			
Naphthalene	0.199	0.002	"	0.200		99.3	70-130			
Phenanthrene	0.185	0.020	"	0.200		92.7	70-130			
Pyrene	0.200	0.020	"	0.200		99.8	70-130			
Surrogate: Fluorene-d10	*200*		*ug/kg*	*200*		*98.4*	*60-130*			
Surrogate: Anthracene-d10	*200*		*"*	*200*		*98.0*	*60-130*			
Surrogate: Pyrene-d10	*210*		*"*	*200*		*106*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*200*		*"*	*200*		*99.9*	*60-130*			
Matrix Spike (B5E0139-MS1)		**Source: E5E0009-03**			Prepared: 05/01/2025 Analyzed: 05/01/2025					
1-Methylnaphthalene	0.199	0.002	mg/kg	0.200	ND	99.7	70-130			
2-Methylnaphthalene	0.199	0.002	"	0.200	0.001	98.8	70-130			
Acenaphthene	0.195	0.020	"	0.200	0.0006	97.1	70-130			
Anthracene	0.191	0.020	"	0.200	ND	95.5	70-130			
Benzo (a) anthracene	0.194	0.005	"	0.200	ND	96.8	70-130			
Benzo (a) pyrene	0.205	0.020	"	0.200	ND	102	70-130			
Benzo (b) fluoranthene	0.198	0.020	"	0.200	0.0007	98.5	70-130			
Benzo (g,h,i) perylene	0.209	0.020	"	0.200	0.0006	104	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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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
Batch B5E0139 - EPA 3580										
Matrix Spike (B5E0139-MS1)		**Source: E5E0009-03**			Prepared: 05/01/2025 Analyzed: 05/01/2025					
Benzo (k) fluoranthene	0.194	0.020	mg/kg	0.200	ND	97.1	70-130			
Chrysene	0.191	0.020	"	0.200	0.0009	95.1	70-130			
Dibenz (a,h) anthracene	0.204	0.020	"	0.200	ND	102	70-130			
Fluoranthene	0.206	0.020	"	0.200	0.0009	103	70-130			
Fluorene	0.188	0.020	"	0.200	0.0006	93.7	70-130			
Indeno (1,2,3-cd) pyrene	0.208	0.020	"	0.200	ND	104	70-130			
Naphthalene	0.200	0.002	"	0.200	ND	100	70-130			
Phenanthrene	0.197	0.020	"	0.200	0.0009	98.0	70-130			
Pyrene	0.206	0.020	"	0.200	0.0009	103	70-130			
Surrogate: Fluorene-d10	*190*		*ug/kg*	*200*		*96.7*	*60-130*			
Surrogate: Anthracene-d10	*200*		*"*	*200*		*98.7*	*60-130*			
Surrogate: Pyrene-d10	*200*		*"*	*200*		*102*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*200*		*"*	*200*		*100*	*60-130*			
Matrix Spike Dup (B5E0139-MSD1)		**Source: E5E0009-03**			Prepared: 05/01/2025 Analyzed: 05/01/2025					
1-Methylnaphthalene	0.206	0.002	mg/kg	0.200	ND	103	70-130	3.10	20	
2-Methylnaphthalene	0.207	0.002	"	0.200	0.001	103	70-130	4.28	20	
Acenaphthene	0.199	0.020	"	0.200	0.0006	99.1	70-130	2.06	20	
Anthracene	0.194	0.020	"	0.200	ND	97.2	70-130	1.84	20	
Benzo (a) anthracene	0.203	0.005	"	0.200	ND	102	70-130	4.75	20	
Benzo (a) pyrene	0.207	0.020	"	0.200	ND	104	70-130	1.24	20	
Benzo (b) fluoranthene	0.203	0.020	"	0.200	0.0007	101	70-130	2.68	20	
Benzo (g,h,i) perylene	0.212	0.020	"	0.200	0.0006	105	70-130	1.23	20	
Benzo (k) fluoranthene	0.205	0.020	"	0.200	ND	102	70-130	5.23	20	
Chrysene	0.205	0.020	"	0.200	0.0009	102	70-130	7.18	20	
Dibenz (a,h) anthracene	0.212	0.020	"	0.200	ND	106	70-130	3.75	20	
Fluoranthene	0.212	0.020	"	0.200	0.0009	106	70-130	2.85	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
Batch B5E0139 - EPA 3580										
Matrix Spike Dup (B5E0139-MSD1)		**Source: E5E0009-03**			Prepared: 05/01/2025 Analyzed: 05/01/2025					
Fluorene	0.191	0.020	mg/kg	0.200	0.0006	95.3	70-130	1.66	20	
Indeno (1,2,3-cd) pyrene	0.214	0.020	"	0.200	ND	107	70-130	2.64	20	
Naphthalene	0.205	0.002	"	0.200	ND	102	70-130	2.12	20	
Phenanthrene	0.204	0.020	"	0.200	0.0009	101	70-130	3.39	20	
Pyrene	0.212	0.020	"	0.200	0.0009	106	70-130	2.80	20	
Surrogate: Fluorene-d10	*190*		*ug/kg*	*200*		*96.3*	*60-130*			
Surrogate: Anthracene-d10	*200*		*"*	*200*		*98.8*	*60-130*			
Surrogate: Pyrene-d10	*200*		*"*	*200*		*102*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*200*		*"*	*200*		*101*	*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 B5E0125 - EPA 3550B										
Blank (B5E0125-BLK1)					Prepared: 05/01/2025 Analyzed: 05/01/2025					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	*23*		"	*24.9*		*93.1*	*50-150*			
LCS (B5E0125-BS1)					Prepared: 05/01/2025 Analyzed: 05/01/2025					
Diesel (C10-C28)	913	50.0	mg/kg	1000		91.3	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000		100	70-130			
Surrogate: o-Terphenyl	*61*		"	*49.8*		*123*	*50-150*			
Matrix Spike (B5E0125-MS1)		**Source: E5E0009-03**			Prepared: 05/01/2025 Analyzed: 05/01/2025					
Diesel (C10-C28)	803	50.0	mg/kg	1000	ND	80.3	70-130			
Residual Range Organics (C28-C40)	906	200	"	1000	ND	90.6	70-130			
Surrogate: o-Terphenyl	*51*		"	*49.8*		*103*	*50-150*			
Matrix Spike Dup (B5E0125-MSD1)		**Source: E5E0009-03**			Prepared: 05/01/2025 Analyzed: 05/01/2025					
Diesel (C10-C28)	796	50.0	mg/kg	1000	ND	79.6	70-130	0.850	35	
Residual Range Organics (C28-C40)	890	200	"	1000	ND	89.0	70-130	1.83	35	
Surrogate: o-Terphenyl	*56*		"	*49.8*		*112*	*50-150*			

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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CTEH
5120 North Shore Drive
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
Batch B5E0133 - EPA 3050B										
Blank (B5E0133-BLK1)				Prepared: 05/01/2025 Analyzed: 05/02/2025						
Arsenic	ND	0.290	mg/kg							U
Barium	ND	82.0	"							U
Cadmium	ND	0.380	"							U
Copper	ND	46.0	"							U
Lead	ND	14.0	"							U
Nickel	ND	26.0	"							U
Selenium	ND	0.260	"							U
Silver	ND	0.800	"							U
Zinc	ND	370	"							U
LCS (B5E0133-BS1)				Prepared: 05/01/2025 Analyzed: 05/02/2025						
Arsenic	5.48	0.290	mg/kg	5.00		110	80-120			
Barium	556	82.0	"	500		111	80-120			
Cadmium	5.46	0.380	"	5.00		109	80-120			
Copper	57.4	46.0	"	50.0		115	80-120			
Lead	5.41	14.0	"	5.00		108	80-120			U
Nickel	5.68	26.0	"	5.00		114	80-120			U
Selenium	5.44	0.260	"	5.00		109	80-120			
Silver	5.41	0.800	"	5.00		108	80-120			
Zinc	57.3	370	"	50.0		115	80-120			U
Matrix Spike (B5E0133-MS1)		**Source: E5E0009-03**		Prepared: 05/01/2025 Analyzed: 05/02/2025						
Arsenic	12.4	0.273	mg/kg	4.71	4.31	171	75-125			QM-07
Barium	636	77.3	"	471	107	112	75-125			
Cadmium	5.42	0.358	"	4.71	0.261	109	75-125			
Copper	85.6	43.4	"	47.1	28.5	121	75-125			
Lead	15.5	13.2	"	4.71	9.50	127	75-125			QM-07

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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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
Batch B5E0133 - EPA 3050B										
Matrix Spike (B5E0133-MS1)		**Source: E5E0009-03**			Prepared: 05/01/2025 Analyzed: 05/02/2025					
Nickel	17.1	24.5	mg/kg	4.71	10.3	145	75-125			QM-07, U
Selenium	5.40	0.245	"	4.71	0.408	106	75-125			
Silver	5.12	0.754	"	4.71	0.0435	108	75-125			
Zinc	126	349	"	47.1	67.1	126	75-125			QM-07, U
Matrix Spike Dup (B5E0133-MSD1)		**Source: E5E0009-03**			Prepared: 05/01/2025 Analyzed: 05/02/2025					
Arsenic	15.0	0.269	mg/kg	4.63	4.31	231	75-125	19.5	20	QM-07
Barium	649	76.0	"	463	107	117	75-125	2.00	20	
Cadmium	5.41	0.352	"	4.63	0.261	111	75-125	0.221	20	
Copper	85.2	42.6	"	46.3	28.5	122	75-125	0.465	20	
Lead	16.0	13.0	"	4.63	9.50	140	75-125	3.24	20	QM-07
Nickel	20.1	24.1	"	4.63	10.3	213	75-125	16.3	20	QM-07, U
Selenium	5.71	0.241	"	4.63	0.408	115	75-125	5.54	20	
Silver	5.05	0.741	"	4.63	0.0435	108	75-125	1.46	20	
Zinc	146	343	"	46.3	67.1	171	75-125	14.6	20	QM-07, U

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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CTEH
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North Little Rock AR 72118

Kyle Lawrence
Project Number: PROJ-054017
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
Batch B5E0117 - Saturated Paste pH/EC										
Blank (B5E0117-BLK1)					Prepared: 05/01/2025 Analyzed: 05/02/2025					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
Duplicate (B5E0117-DUP1)			**Source: E5E0009-03**		Prepared: 05/01/2025 Analyzed: 05/02/2025					
pH	8.60		pH Units		8.65			0.580	25	
Specific Conductance (EC)	2.26	0.00500	mmhos/cm		2.79			20.8	25	

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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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
Batch B5E0131 - EPA 5030 (soil)										
Blank (B5E0131-BLK1)					Prepared: 05/01/2025 Analyzed: 05/01/2025					
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	*0.091*		"	*0.125*		*72.9*	*70-130*			
Surrogate: Toluene-d8	*0.12*		"	*0.125*		*98.1*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.13*		"	*0.125*		*102*	*70-130*			
LCS (B5E0131-BS1)					Prepared: 05/01/2025 Analyzed: 05/01/2025					
1,2,4-Trimethylbenzene	0.119	0.00200	mg/kg	0.100		119	70-130			
1,3,5-Trimethylbenzene	0.120	0.00200	"	0.100		120	70-130			
Benzene	0.105	0.00200	"	0.100		105	70-130			
Ethylbenzene	0.117	0.00200	"	0.100		117	70-130			
Naphthalene	0.0879	0.00380	"	0.100		87.9	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
o-Xylene	0.118	0.00200	"	0.100		118	70-130			
m,p-Xylene	0.237	0.00400	"	0.200		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.088*		"	*0.125*		*70.7*	*70-130*			
Surrogate: Toluene-d8	*0.12*		"	*0.125*		*99.1*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.12*		"	*0.125*		*98.7*	*70-130*			
Matrix Spike (B5E0131-MS1)		**Source: E5E0009-03**			Prepared: 05/01/2025 Analyzed: 05/01/2025					
1,2,4-Trimethylbenzene	0.0997	0.00200	mg/kg	0.100	ND	99.7	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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
Batch B5E0131 - EPA 5030 (soil)										
Matrix Spike (B5E0131-MS1)		**Source: E5E0009-03**			Prepared: 05/01/2025 Analyzed: 05/01/2025					
1,3,5-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130			
Benzene	0.0905	0.00200	"	0.100	ND	90.5	70-130			
Ethylbenzene	0.118	0.00200	"	0.100	ND	118	70-130			
Naphthalene	0.0537	0.00380	"	0.100	ND	53.7	70-130			QM-07
Toluene	0.0919	0.00200	"	0.100	ND	91.9	70-130			
o-Xylene	0.119	0.00200	"	0.100	ND	119	70-130			
m,p-Xylene	0.234	0.00400	"	0.200	ND	117	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.089*		"	*0.125*		*71.5*	*70-130*			
Surrogate: Toluene-d8	*0.13*		"	*0.125*		*106*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.14*		"	*0.125*		*114*	*70-130*			
Matrix Spike Dup (B5E0131-MSD1)		**Source: E5E0009-03**			Prepared: 05/01/2025 Analyzed: 05/01/2025					
1,2,4-Trimethylbenzene	0.0746	0.00200	mg/kg	0.100	ND	74.6	70-130	28.7	20	QR-02
1,3,5-Trimethylbenzene	0.0764	0.00200	"	0.100	ND	76.4	70-130	28.0	20	QR-02
Benzene	0.0788	0.00200	"	0.100	ND	78.8	70-130	13.8	20	
Ethylbenzene	0.0907	0.00200	"	0.100	ND	90.7	70-130	26.2	20	QR-02
Naphthalene	0.0410	0.00380	"	0.100	ND	41.0	70-130	26.7	20	QM-07
Toluene	0.0750	0.00200	"	0.100	ND	75.0	70-130	20.2	20	QR-02
o-Xylene	0.0917	0.00200	"	0.100	ND	91.7	70-130	25.8	20	QR-02
m,p-Xylene	0.183	0.00400	"	0.200	ND	91.3	70-130	24.8	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	*0.096*		"	*0.125*		*76.7*	*70-130*			
Surrogate: Toluene-d8	*0.13*		"	*0.125*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.14*		"	*0.125*		*112*	*70-130*			
Batch B5E0227 - EPA 5030B (Water)										
Blank (B5E0227-BLK1)					Prepared: 05/02/2025 Analyzed: 05/02/2025					
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
Batch B5E0227 - EPA 5030B (Water)										
Blank (B5E0227-BLK1)					Prepared: 05/02/2025 Analyzed: 05/02/2025					
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
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5E0227 - EPA 5030B (Water)										
Blank (B5E0227-BLK1)					Prepared: 05/02/2025 Analyzed: 05/02/2025					
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
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

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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
Batch B5E0227 - EPA 5030B (Water)										
Blank (B5E0227-BLK1)					Prepared: 05/02/2025 Analyzed: 05/02/2025					
sec-Butylbenzene	ND	1.00	ug/L							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
o-Xylene	ND	1.00	"							U
m,p-Xylene	ND	2.00	"							U
Surrogate: 1,2-Dichloroethane-d4	*62*		"	*62.5*		*99.7*	*70-130*			
Surrogate: Toluene-d8	*60*		"	*62.5*		*95.9*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*63*		"	*62.5*		*102*	*70-130*			
LCS (B5E0227-BS1)					Prepared: 05/02/2025 Analyzed: 05/02/2025					
1,1,1,2-Tetrachloroethane	44.6	1.00	ug/L	50.0		89.1	70-130			
1,1,1-Trichloroethane	44.0	1.00	"	50.0		88.0	70-130			
1,1,2,2-Tetrachloroethane	43.5	1.00	"	50.0		87.0	70-130			
1,1,2-Trichloroethane	41.5	1.00	"	50.0		83.1	70-130			
1,1-Dichloroethane	43.1	1.00	"	50.0		86.1	70-130			
1,1-Dichloroethene	42.5	1.00	"	50.0		85.0	70-130			
1,1-Dichloropropene	43.8	1.00	"	50.0		87.7	70-130			
1,2,3-Trichlorobenzene	46.8	5.00	"	50.0		93.6	70-130			
1,2,3-Trichloropropane	41.5	5.00	"	50.0		83.1	70-130			
1,2,4-Trichlorobenzene	47.9	5.00	"	50.0		95.8	70-130			

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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
Batch B5E0227 - EPA 5030B (Water)										
LCS (B5E0227-BS1)					Prepared: 05/02/2025 Analyzed: 05/02/2025					
1,2,4-Trimethylbenzene	46.0	1.00	ug/L	50.0		92.0	70-130			
1,2-Dibromo-3-chloropropane	42.4	5.00	"	50.0		84.8	70-130			
1,2-Dibromoethane (EDB)	41.4	1.50	"	50.0		82.8	70-130			
1,2-Dichlorobenzene	42.8	1.00	"	50.0		85.7	70-130			
1,2-Dichloroethane	42.8	1.00	"	50.0		85.7	70-130			
1,2-Dichloropropane	41.2	1.00	"	50.0		82.4	70-130			
1,3,5-Trimethylbenzene	46.0	1.00	"	50.0		92.0	70-130			
1,3-Dichlorobenzene	44.6	1.00	"	50.0		89.3	70-130			
1,3-Dichloropropane	41.2	1.00	"	50.0		82.4	70-130			
1,4-Dichlorobenzene	42.5	1.00	"	50.0		85.0	70-130			
2,2-Dichloropropane	46.8	1.00	"	50.0		93.5	70-130			
2-Butanone	200	5.00	"	250		80.1	70-130			
2-Chlorotoluene	44.3	1.00	"	50.0		88.5	70-130			
2-Hexanone	201	6.00	"	250		80.5	70-130			
4-Chlorotoluene	44.3	1.00	"	50.0		88.6	70-130			
4-Isopropyltoluene	46.5	1.00	"	50.0		93.0	70-130			
4-Methyl-2-pentanone	223	5.00	"	250		89.1	70-130			
Acetone	205	8.00	"	250		81.9	70-130			
Benzene	43.2	1.00	"	50.0		86.4	70-130			
Bromobenzene	42.5	1.00	"	50.0		85.0	70-130			
Bromochloromethane	42.8	1.00	"	50.0		85.5	70-130			
Bromodichloromethane	42.4	1.00	"	50.0		84.8	70-130			
Bromoform	42.7	1.00	"	50.0		85.4	70-130			
Bromomethane	48.1	1.00	"	50.0		96.2	70-130			
Carbon disulfide	44.4	5.00	"	50.0		88.7	70-130			
Carbon tetrachloride	41.2	1.00	"	50.0		82.4	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5E0227 - EPA 5030B (Water)										
LCS (B5E0227-BS1)					Prepared: 05/02/2025 Analyzed: 05/02/2025					
Chlorobenzene	41.5	1.00	ug/L	50.0		82.9	70-130			
Chloroethane	46.3	1.00	"	50.0		92.7	70-130			
Chloroform	44.8	1.00	"	50.0		89.6	70-130			
Chloromethane	47.5	1.00	"	50.0		94.9	70-130			
cis-1,2-Dichloroethene	43.5	1.00	"	50.0		87.0	70-130			
cis-1,3-Dichloropropene	42.8	1.00	"	50.0		85.6	70-130			
Dibromochloromethane	43.0	1.00	"	50.0		85.9	70-130			
Dibromomethane	41.4	1.00	"	50.0		82.9	70-130			
Ethylbenzene	43.5	1.00	"	50.0		87.0	70-130			
Hexachlorobutadiene	47.8	5.00	"	50.0		95.6	70-130			
Iodomethane	43.0	10.0	"	50.0		86.1	70-130			
Isopropylbenzene	45.6	1.00	"	50.0		91.1	70-130			
Methylene Chloride	41.8	15.0	"	50.0		83.6	70-130			
Methyl tert-Butyl Ether	40.3	1.00	"	50.0		80.7	70-130			
Naphthalene	44.9	4.00	"	50.0		89.9	70-130			
n-Butylbenzene	48.1	1.00	"	50.0		96.1	70-130			
n-Propylbenzene	45.4	1.00	"	50.0		90.8	70-130			
sec-Butylbenzene	46.1	1.00	"	50.0		92.2	70-130			
Styrene	43.4	1.00	"	50.0		86.7	70-130			
tert-Butylbenzene	45.7	1.00	"	50.0		91.3	70-130			
Tetrachloroethene	44.4	1.00	"	50.0		88.9	70-130			
Toluene	42.7	1.00	"	50.0		85.4	70-130			
trans-1,2-Dichloroethene	43.2	1.00	"	50.0		86.5	70-130			
trans-1,3-Dichloropropene	41.7	1.00	"	50.0		83.3	70-130			
Trichloroethene	42.8	1.00	"	50.0		85.6	70-130			
Trichlorofluoromethane	48.5	1.00	"	50.0		97.0	70-130			

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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
Batch B5E0227 - EPA 5030B (Water)										
LCS (B5E0227-BS1)						Prepared: 05/02/2025 Analyzed: 05/02/2025				
Vinyl chloride	49.1	1.00	ug/L	50.0		98.2	70-130			
o-Xylene	44.2	1.00	"	50.0		88.3	70-130			
m,p-Xylene	87.9	2.00	"	100		87.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	*61*		"	*62.5*		*97.6*	*70-130*			
Surrogate: Toluene-d8	*62*		"	*62.5*		*99.6*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*63*		"	*62.5*		*101*	*70-130*			
Matrix Spike (B5E0227-MS1)		**Source: E5E0001-02**				Prepared: 05/02/2025 Analyzed: 05/02/2025				
1,1,1,2-Tetrachloroethane	39.9	1.00	ug/L	50.0	ND	79.9	70-130			
1,1,1-Trichloroethane	40.1	1.00	"	50.0	ND	80.2	70-130			
1,1,2,2-Tetrachloroethane	39.6	1.00	"	50.0	ND	79.2	70-130			
1,1,2-Trichloroethane	38.0	1.00	"	50.0	ND	76.0	70-130			
1,1-Dichloroethane	39.3	1.00	"	50.0	ND	78.5	70-130			
1,1-Dichloroethene	39.4	1.00	"	50.0	ND	78.7	70-130			
1,1-Dichloropropene	39.7	1.00	"	50.0	ND	79.4	70-130			
1,2,3-Trichlorobenzene	42.2	5.00	"	50.0	0.930	82.5	70-130			
1,2,3-Trichloropropane	37.0	5.00	"	50.0	ND	73.9	70-130			
1,2,4-Trichlorobenzene	43.8	5.00	"	50.0	ND	87.5	70-130			
1,2,4-Trimethylbenzene	42.3	1.00	"	50.0	ND	84.6	70-130			
1,2-Dibromo-3-chloropropane	37.7	5.00	"	50.0	ND	75.3	70-130			
1,2-Dibromoethane (EDB)	38.8	1.50	"	50.0	ND	77.5	70-130			
1,2-Dichlorobenzene	39.2	1.00	"	50.0	ND	78.3	70-130			
1,2-Dichloroethane	40.3	1.00	"	50.0	ND	80.7	70-130			
1,2-Dichloropropane	37.9	1.00	"	50.0	ND	75.8	70-130			
1,3,5-Trimethylbenzene	42.1	1.00	"	50.0	ND	84.2	70-130			
1,3-Dichlorobenzene	40.8	1.00	"	50.0	ND	81.7	70-130			
1,3-Dichloropropane	38.2	1.00	"	50.0	ND	76.4	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5E0227 - EPA 5030B (Water)										
Matrix Spike (B5E0227-MS1)		**Source: E5E0001-02**			Prepared: 05/02/2025 Analyzed: 05/02/2025					
1,4-Dichlorobenzene	40.0	1.00	ug/L	50.0	ND	80.0	70-130			
2,2-Dichloropropane	42.9	1.00	"	50.0	ND	85.8	70-130			
2-Butanone	187	5.00	"	250	ND	74.6	70-130			
2-Chlorotoluene	40.8	1.00	"	50.0	ND	81.5	70-130			
2-Hexanone	186	6.00	"	250	ND	74.3	70-130			
4-Chlorotoluene	41.1	1.00	"	50.0	ND	82.2	70-130			
4-Isopropyltoluene	42.7	1.00	"	50.0	ND	85.4	70-130			
4-Methyl-2-pentanone	197	5.00	"	250	ND	79.0	70-130			
Acetone	194	8.00	"	250	ND	77.8	70-130			
Benzene	39.7	1.00	"	50.0	ND	79.3	70-130			
Bromobenzene	39.3	1.00	"	50.0	ND	78.6	70-130			
Bromochloromethane	39.3	1.00	"	50.0	ND	78.6	70-130			
Bromodichloromethane	38.6	1.00	"	50.0	ND	77.3	70-130			
Bromoform	38.2	1.00	"	50.0	ND	76.4	70-130			
Bromomethane	54.5	1.00	"	50.0	ND	109	70-130			
Carbon disulfide	40.7	5.00	"	50.0	ND	81.4	70-130			
Carbon tetrachloride	41.1	1.00	"	50.0	ND	82.3	70-130			
Chlorobenzene	38.2	1.00	"	50.0	ND	76.5	70-130			
Chloroethane	52.9	1.00	"	50.0	ND	106	70-130			
Chloroform	38.9	1.00	"	50.0	ND	77.7	70-130			
Chloromethane	53.6	1.00	"	50.0	ND	107	70-130			
cis-1,2-Dichloroethene	40.2	1.00	"	50.0	ND	80.4	70-130			
cis-1,3-Dichloropropene	38.0	1.00	"	50.0	ND	76.0	70-130			
Dibromochloromethane	38.6	1.00	"	50.0	ND	77.1	70-130			
Dibromomethane	38.3	1.00	"	50.0	ND	76.6	70-130			
Ethylbenzene	39.9	1.00	"	50.0	ND	79.9	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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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
Batch B5E0227 - EPA 5030B (Water)										
Matrix Spike (B5E0227-MS1)		**Source: E5E0001-02**			Prepared: 05/02/2025 Analyzed: 05/02/2025					
Hexachlorobutadiene	43.8	5.00	ug/L	50.0	ND	87.6	70-130			
Iodomethane	39.8	10.0	"	50.0	ND	79.5	70-130			
Isopropylbenzene	41.2	1.00	"	50.0	ND	82.3	70-130			
Methylene Chloride	38.4	15.0	"	50.0	ND	76.8	70-130			
Methyl tert-Butyl Ether	35.7	1.00	"	50.0	ND	71.4	70-130			
Naphthalene	40.2	4.00	"	50.0	0.930	78.6	70-130			
n-Butylbenzene	44.4	1.00	"	50.0	ND	88.7	70-130			
n-Propylbenzene	41.6	1.00	"	50.0	ND	83.2	70-130			
sec-Butylbenzene	42.3	1.00	"	50.0	ND	84.6	70-130			
Styrene	40.1	1.00	"	50.0	ND	80.2	70-130			
tert-Butylbenzene	41.1	1.00	"	50.0	ND	82.2	70-130			
Tetrachloroethene	40.1	1.00	"	50.0	ND	80.2	70-130			
Toluene	39.0	1.00	"	50.0	ND	78.1	70-130			
trans-1,2-Dichloroethene	39.8	1.00	"	50.0	ND	79.7	70-130			
trans-1,3-Dichloropropene	38.4	1.00	"	50.0	ND	76.8	70-130			
Trichloroethene	39.1	1.00	"	50.0	ND	78.2	70-130			
Trichlorofluoromethane	55.5	1.00	"	50.0	ND	111	70-130			
Vinyl chloride	56.3	1.00	"	50.0	ND	113	70-130			
o-Xylene	40.5	1.00	"	50.0	ND	81.0	70-130			
m,p-Xylene	80.9	2.00	"	100	ND	80.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	*62*		"	*62.5*		*98.7*	*70-130*			
Surrogate: Toluene-d8	*61*		"	*62.5*		*97.9*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*63*		"	*62.5*		*101*	*70-130*			
Matrix Spike Dup (B5E0227-MSD1)		**Source: E5E0001-02**			Prepared: 05/02/2025 Analyzed: 05/02/2025					
1,1,1,2-Tetrachloroethane	47.1	1.00	ug/L	50.0	ND	94.3	70-130	16.5	20	
1,1,1-Trichloroethane	47.4	1.00	"	50.0	ND	94.8	70-130	16.7	20	

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5E0227 - EPA 5030B (Water)										
Matrix Spike Dup (B5E0227-MSD1)		**Source: E5E0001-02**			Prepared: 05/02/2025 Analyzed: 05/02/2025					
1,1,2,2-Tetrachloroethane	47.0	1.00	ug/L	50.0	ND	94.1	70-130	17.1	20	
1,1,2-Trichloroethane	45.9	1.00	"	50.0	ND	91.9	70-130	18.8	20	
1,1-Dichloroethane	45.6	1.00	"	50.0	ND	91.1	70-130	14.9	20	
1,1-Dichloroethene	45.9	1.00	"	50.0	ND	91.7	70-130	15.2	20	
1,1-Dichloropropene	47.2	1.00	"	50.0	ND	94.4	70-130	17.2	20	
1,2,3-Trichlorobenzene	49.3	5.00	"	50.0	0.930	96.7	70-130	15.5	20	
1,2,3-Trichloropropane	44.8	5.00	"	50.0	ND	89.6	70-130	19.2	20	
1,2,4-Trichlorobenzene	50.7	5.00	"	50.0	ND	101	70-130	14.7	20	
1,2,4-Trimethylbenzene	49.6	1.00	"	50.0	ND	99.2	70-130	15.9	20	
1,2-Dibromo-3-chloropropane	45.5	5.00	"	50.0	ND	91.1	70-130	18.9	20	
1,2-Dibromoethane (EDB)	46.4	1.50	"	50.0	ND	92.8	70-130	18.0	20	
1,2-Dichlorobenzene	46.3	1.00	"	50.0	ND	92.6	70-130	16.8	20	
1,2-Dichloroethane	47.6	1.00	"	50.0	ND	95.3	70-130	16.6	20	
1,2-Dichloropropane	45.6	1.00	"	50.0	ND	91.3	70-130	18.6	20	
1,3,5-Trimethylbenzene	49.8	1.00	"	50.0	ND	99.7	70-130	16.9	20	
1,3-Dichlorobenzene	48.7	1.00	"	50.0	ND	97.4	70-130	17.5	20	
1,3-Dichloropropane	45.9	1.00	"	50.0	ND	91.8	70-130	18.4	20	
1,4-Dichlorobenzene	46.9	1.00	"	50.0	ND	93.8	70-130	15.9	20	
2,2-Dichloropropane	50.2	1.00	"	50.0	ND	100	70-130	15.7	20	
2-Butanone	222	5.00	"	250	ND	88.9	70-130	17.5	20	
2-Chlorotoluene	48.1	1.00	"	50.0	ND	96.2	70-130	16.5	20	
2-Hexanone	218	6.00	"	250	ND	87.1	70-130	15.9	20	
4-Chlorotoluene	48.7	1.00	"	50.0	ND	97.5	70-130	17.1	20	
4-Isopropyltoluene	50.1	1.00	"	50.0	ND	100	70-130	16.1	20	
4-Methyl-2-pentanone	230	5.00	"	250	ND	92.1	70-130	15.3	20	
Acetone	209	8.00	"	250	ND	83.5	70-130	7.17	20	

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5E0227 - EPA 5030B (Water)										
Matrix Spike Dup (B5E0227-MSD1)		**Source: E5E0001-02**			Prepared: 05/02/2025 Analyzed: 05/02/2025					
Benzene	47.0	1.00	ug/L	50.0	ND	94.1	70-130	17.0	20	
Bromobenzene	46.7	1.00	"	50.0	ND	93.3	70-130	17.1	20	
Bromochloromethane	46.1	1.00	"	50.0	ND	92.1	70-130	15.8	20	
Bromodichloromethane	46.9	1.00	"	50.0	ND	93.8	70-130	19.3	20	
Bromoform	47.3	1.00	"	50.0	ND	94.5	70-130	21.3	20	QR-02
Bromomethane	50.3	1.00	"	50.0	ND	101	70-130	8.07	20	
Carbon disulfide	47.2	5.00	"	50.0	ND	94.5	70-130	14.9	20	
Carbon tetrachloride	48.6	1.00	"	50.0	ND	97.2	70-130	16.7	20	
Chlorobenzene	45.6	1.00	"	50.0	ND	91.1	70-130	17.4	20	
Chloroethane	49.4	1.00	"	50.0	ND	98.7	70-130	6.98	20	
Chloroform	45.9	1.00	"	50.0	ND	91.8	70-130	16.6	20	
Chloromethane	50.6	1.00	"	50.0	ND	101	70-130	5.82	20	
cis-1,2-Dichloroethene	46.4	1.00	"	50.0	ND	92.8	70-130	14.3	20	
cis-1,3-Dichloropropene	46.3	1.00	"	50.0	ND	92.5	70-130	19.6	20	
Dibromochloromethane	46.9	1.00	"	50.0	ND	93.8	70-130	19.4	20	
Dibromomethane	46.9	1.00	"	50.0	ND	93.8	70-130	20.1	20	QR-02
Ethylbenzene	47.9	1.00	"	50.0	ND	95.8	70-130	18.1	20	
Hexachlorobutadiene	52.6	5.00	"	50.0	ND	105	70-130	18.3	20	
Iodomethane	46.6	10.0	"	50.0	ND	93.1	70-130	15.7	20	
Isopropylbenzene	48.9	1.00	"	50.0	ND	97.7	70-130	17.1	20	
Methylene Chloride	44.8	15.0	"	50.0	ND	89.5	70-130	15.3	20	
Methyl tert-Butyl Ether	42.0	1.00	"	50.0	ND	84.1	70-130	16.3	20	
Naphthalene	47.8	4.00	"	50.0	0.930	93.7	70-130	17.2	20	
n-Butylbenzene	51.8	1.00	"	50.0	ND	104	70-130	15.5	20	
n-Propylbenzene	49.5	1.00	"	50.0	ND	99.0	70-130	17.4	20	
sec-Butylbenzene	50.2	1.00	"	50.0	ND	100	70-130	17.1	20	

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5E0227 - EPA 5030B (Water)										
Matrix Spike Dup (B5E0227-MSD1)		**Source: E5E0001-02**			Prepared: 05/02/2025 Analyzed: 05/02/2025					
Styrene	48.2	1.00	ug/L	50.0	ND	96.3	70-130	18.3	20	
tert-Butylbenzene	49.8	1.00	"	50.0	ND	99.7	70-130	19.2	20	
Tetrachloroethene	48.0	1.00	"	50.0	ND	96.0	70-130	18.0	20	
Toluene	46.2	1.00	"	50.0	ND	92.4	70-130	16.8	20	
trans-1,2-Dichloroethene	46.0	1.00	"	50.0	ND	92.0	70-130	14.4	20	
trans-1,3-Dichloropropene	47.2	1.00	"	50.0	ND	94.4	70-130	20.6	20	QR-02
Trichloroethene	47.0	1.00	"	50.0	ND	93.9	70-130	18.2	20	
Trichlorofluoromethane	51.4	1.00	"	50.0	ND	103	70-130	7.71	20	
Vinyl chloride	52.3	1.00	"	50.0	ND	105	70-130	7.33	20	
o-Xylene	48.1	1.00	"	50.0	ND	96.2	70-130	17.2	20	
m,p-Xylene	96.4	2.00	"	100	ND	96.4	70-130	17.4	20	
Surrogate: 1,2-Dichloroethane-d4	*62*		"	*62.5*		*99.2*	*70-130*			
Surrogate: Toluene-d8	*61*		"	*62.5*		*98.0*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*64*		"	*62.5*		*102*	*70-130*			

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Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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-14 The pre-digestion matrix spike recoveries for Cr6 were less than the acceptance range min. The soil sample reduced Cr6 and no measurable native Cr6 existed in the unspiked sample. Batch QC deemed acceptable based on passing LCS recovery.

QM-11 Spike recovery was outside acceptance limits for LCS, however samples are non-detect for this compound.

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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