



CTEH

May 28, 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 30, 2025. This project is associated with Origins project number E5E0011-01.

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
GACO0430T031S001	E5E0011-01	Soil	April 30, 2025 9:44	04/30/2025 20:40
GACO0430T031S002	E5E0011-02	Soil	April 30, 2025 10:05	04/30/2025 20:40
GACO0430T031S003	E5E0011-03	Soil	April 30, 2025 10:30	04/30/2025 20:40
GACO0430T031S004	E5E0011-04	Soil	April 30, 2025 10:50	04/30/2025 20:40
GACO0430T031S005	E5E0011-05	Soil	April 30, 2025 11:25	04/30/2025 20:40
GACO0430T031S006	E5E0011-06	Soil	April 30, 2025 15:30	04/30/2025 20:40
GACO0430T031S007	E5E0011-07	Soil	April 30, 2025 15:35	04/30/2025 20:40
GACO0430T031T003	E5E0011-08	Water	April 30, 2025 7:00	04/30/2025 20:40

Origins Laboratory

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Jen Pellegrini For Jordan A. Bynon, Project Manager

ORIGINS LABORATORY

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CHAIN-OF-CUSTODY Analytical Request Document
 Submitting a sample as the owner of custody certifies subsequence and compliance of the Title Form and Content found at <https://mtl.pca.com/mtl/chain-of-custody-standard-sops.pdf>
 Chain of Custody is a LEGAL DOCUMENT. Complete all relevant fields.

Company: CTEH
 Billing Information: ctehap@montrose-env.com

Report To: Lab Results: Kyle Lawrence (kylaw@cteh.com); Kyle Lawrence (kylaw@cteh.com);
 Metadata: jenn.pellegrini@mtl.com; jenn.pellegrini@mtl.com; jenn.pellegrini@mtl.com;
 Copy To: Site Collection Info/Address:

Customer Project Name/Number: Blimp Loss of Containment PROJ-054017
 State: CO County/City: Golden Time Zone: Collect: IPT [X] JMT [] CT [] ET []
 Phone: Site Facility ID #: Compliance Monitoring? [] Yes [] No
 Email: Purchase Order #: DW PWS ID #: DW Location Code: Immediately placed on ice: [] Yes [] No
 Collected By (Agent): Sheryl Bell
 Collected By (Signature): [Signature]
 Sample Disposed: [] Dispose as appropriate [] Return [] Archive []
 X1 Held: 28

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Sediment (S), Oil (O), Waste (W), Air (AR), Tissue (TS), Biossary (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Date	Time	No. of Cans
GAC004307031S001	SL G		4/30/2025	0944	3
GAC004307031S002	SL G		4/30/2025	1005	3
GAC004307031S003	SL G		4/30/2025	1030	3
GAC004307031S004	SL G		4/30/2025	1050	3
GAC004307031S005	SL G		4/30/2025	1125	3
GAC004307031S006	SL G		4/30/2025	1530	3
GAC004307031S007	SL G		4/30/2025	1535	3
GAC004307031S007MS	SL G		4/30/2025	1535	3
GAC004307031S007MSD	SL G		4/30/2025	1535	3
GAC004307031T003	OT G		4/30/2025	0700	2

Container Type: Plastic (P) or Glass (G)
 VOCs #260D
 Table 915

Lab Project Manager: U 3
 Lab Project Number: ESE0011
 Lab Project Name: ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Lab Profile/Use:
 Lab Sample Receipt: []
 Analytical: []
 Storage: []
 Shipping: []
 Other: []

Customer Remarks / Special Conditions / Possible Hazards:
 SHOT - HOLDS PRESENT (<72 hours): Y N N/A
 Lab Tracking #: []
 Sample received via: []
 FEED: UPS Client: Courier Piece Counter
 Date/Time: 4/30/25 10:40
 Date/Time: 4/30/25 10:40
 Date/Time: []
 Date/Time: []

Relinquished by Company (Signature): [Signature]
 Relinquished by Company (Signature): [Signature]
 Relinquished by Company (Signature): [Signature]

Relinquished by Company (Signature): [Signature]
 Relinquished by Company (Signature): [Signature]
 Relinquished by Company (Signature): [Signature]

Lab Sample Temperature Info:
 Deep Freeze: []
 Chiller 1 Temp: []
 Chiller 2 Temp: []
 Comments: []

MTL Lab Use Only:
 Trip Blank Received: Y N NA
 HCL MECH TSP Other
 Non Conformity: Page 1 of 1

Origins Laboratory

Jen Pellegrini

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

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

Sample Receipt Checklist

Origins Work Order: ESE0011 Client: CTEH
 Client Project ID: Bishop Loss of Containment

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

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / -0.3 °c (Describe)

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 HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +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.

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

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 North Little Rock AR 72118

Kyle Lawrence
 Project Number: PROJ-054017
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GACO0430T031S001
4/30/2025 9:44:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0011-01 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.23		0.0997	mg/L	1	B5E0110	05/01/2025	05/05/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.252	mg/kg	1	B5E0124	05/01/2025	05/13/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E0126	05/01/2025	05/01/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	79.4 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0132	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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Kyle Lawrence
 Project Number: PROJ-054017
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GACO0430T031S001
4/30/2025 9:44:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0011-01 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	114 %			70-130		B5E0132	05/01/2025	05/01/2025	
Surrogate: Toluene-d8	99.2 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	4.06		0.499	meq/L	10	[CALC]	05/01/2025	05/05/2025	
Magnesium	3.01		0.823	"	"	"	"	"	
Sodium	1.32		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0140	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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GACO0430T031S001
4/30/2025 9:44:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0011-01 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND		0.020	mg/kg	1	B5E0140	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	98.6 %			60-130		"	"	"	
Surrogate: Anthracene-d10	92.7 %			60-130		"	"	"	
Surrogate: Pyrene-d10	99.1 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.5 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.11			pH Units	1	B5E0118	05/01/2025	05/02/2025	
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SAR by 20B Saturated Paste

SAR	0.700		0.0100	SAR	1	B5E0106	05/01/2025	05/05/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.06		0.00500	mmhos/cm	1	B5E0118	05/01/2025	05/02/2025	
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Table 915 metals by EPA 6020B

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GACO0430T031S001
4/30/2025 9:44:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0011-01 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	5.26		0.248	mg/kg	10	B5E0134	05/01/2025	05/02/2025	
Barium	114		70.2	"	"	"	"	"	
Cadmium	0.378		0.325	"	"	"	"	"	
Copper	ND		39.4	"	"	"	"	"	U
Lead	ND		12.0	"	"	"	"	"	U
Nickel	ND		22.3	"	"	"	"	"	U
Selenium	0.345		0.223	"	"	"	"	"	
Silver	ND		0.685	"	"	"	"	"	U
Zinc	ND		317	"	"	"	"	"	U

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CTEH
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 Project Number: PROJ-054017
 Project: PROJ-054017

GACO0430T031S002
4/30/2025 10:05:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0011-02 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.666		0.0996	mg/L	1	B5E0110	05/01/2025	05/05/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.275	mg/kg	1	B5E0124	05/01/2025	05/13/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E0126	05/01/2025	05/01/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	92.1 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0132	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



CTEH
 5120 North Shore Drive
 North Little Rock AR 72118

Kyle Lawrence
 Project Number: PROJ-054017
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GACO0430T031S002
4/30/2025 10:05:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0011-02 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	111 %			70-130		B5E0132	05/01/2025	05/01/2025	
Surrogate: Toluene-d8	101 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.30		0.499	meq/L	10	[CALC]	05/01/2025	05/05/2025	
Magnesium	0.974		0.823	"	"	"	"	"	
Sodium	0.712		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0140	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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GACO0430T031S002
4/30/2025 10:05:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0011-02 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND		0.020	mg/kg	1	B5E0140	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	99.1 %			60-130		"	"	"	
Surrogate: Anthracene-d10	93.7 %			60-130		"	"	"	
Surrogate: Pyrene-d10	99.3 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.04			pH Units	1	B5E0118	05/01/2025	05/02/2025	
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SAR by 20B Saturated Paste

SAR	0.669		0.0100	SAR	1	B5E0106	05/01/2025	05/05/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.691		0.00500	mmhos/cm	1	B5E0118	05/01/2025	05/02/2025	
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Table 915 metals by EPA 6020B

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

GACO0430T031S002
4/30/2025 10:05:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0011-02 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	2.42		0.280	mg/kg	10	B5E0134	05/01/2025	05/02/2025	
Barium	ND		79.1	"	"	"	"	"	U
Cadmium	ND		0.367	"	"	"	"	"	U
Copper	ND		44.4	"	"	"	"	"	U
Lead	ND		13.5	"	"	"	"	"	U
Nickel	ND		25.1	"	"	"	"	"	U
Selenium	ND		0.251	"	"	"	"	"	U
Silver	ND		0.772	"	"	"	"	"	U
Zinc	ND		357	"	"	"	"	"	U

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CTEH
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Kyle Lawrence
 Project Number: PROJ-054017
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GACO0430T031S003
4/30/2025 10:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0011-03 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	5.36		0.100	mg/L	1	B5E0110	05/01/2025	05/05/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.241	mg/kg	1	B5E0124	05/01/2025	05/13/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E0126	05/01/2025	05/01/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	79.0 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0132	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



CTEH
 5120 North Shore Drive
 North Little Rock AR 72118

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

GACO0430T031S003
4/30/2025 10:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0011-03 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	110 %			70-130		B5E0132	05/01/2025	05/01/2025	
Surrogate: Toluene-d8	99.2 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	20.2		0.499	meq/L	10	[CALC]	05/01/2025	05/05/2025	
Magnesium	44.4		0.823	"	"	"	"	"	
Sodium	22.7		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0140	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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CTEH
 5120 North Shore Drive
 North Little Rock AR 72118

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

GACO0430T031S003
4/30/2025 10:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0011-03 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND		0.020	mg/kg	1	B5E0140	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	98.4 %			60-130		"	"	"	
Surrogate: Anthracene-d10	95.2 %			60-130		"	"	"	
Surrogate: Pyrene-d10	98.7 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.45			pH Units	1	B5E0118	05/01/2025	05/02/2025	
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SAR by 20B Saturated Paste

SAR	4.00		0.0100	SAR	1	B5E0106	05/01/2025	05/05/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	6.27		0.00500	mmhos/cm	1	B5E0118	05/01/2025	05/02/2025	
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Table 915 metals by EPA 6020B

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

GACO0430T031S003
4/30/2025 10:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0011-03 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	4.88		0.267	mg/kg	10	B5E0134	05/01/2025	05/02/2025	
Barium	ND		75.6	"	"	"	"	"	U
Cadmium	ND		0.350	"	"	"	"	"	U
Copper	ND		42.4	"	"	"	"	"	U
Lead	ND		12.9	"	"	"	"	"	U
Nickel	ND		24.0	"	"	"	"	"	U
Selenium	ND		0.240	"	"	"	"	"	U
Silver	ND		0.737	"	"	"	"	"	U
Zinc	ND		341	"	"	"	"	"	U

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Kyle Lawrence
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 Project: PROJ-054017

GACO0430T031S004
4/30/2025 10:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0011-04 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.76		0.100	mg/L	1	B5E0110	05/01/2025	05/05/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.244	mg/kg	1	B5E0124	05/01/2025	05/13/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E0126	05/01/2025	05/01/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	160 %			50-150		"	"	"	S-07
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0132	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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Kyle Lawrence
 Project Number: PROJ-054017
 Project: PROJ-054017

GACO0430T031S004
4/30/2025 10:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0011-04 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	118 %			70-130		B5E0132	05/01/2025	05/01/2025	
Surrogate: Toluene-d8	100 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.29		0.499	meq/L	10	[CALC]	05/01/2025	05/05/2025	
Magnesium	1.60		0.823	"	"	"	"	"	
Sodium	1.47		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0140	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

GACO0430T031S004
4/30/2025 10:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0011-04 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND		0.020	mg/kg	1	B5E0140	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	99.0 %			60-130		"	"	"	
Surrogate: Anthracene-d10	94.8 %			60-130		"	"	"	
Surrogate: Pyrene-d10	98.0 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.18			pH Units	1	B5E0118	05/01/2025	05/02/2025	
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SAR by 20B Saturated Paste

SAR	1.06		0.0100	SAR	1	B5E0106	05/01/2025	05/05/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.648		0.00500	mmhos/cm	1	B5E0118	05/01/2025	05/02/2025	
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Table 915 metals by EPA 6020B

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Kyle Lawrence
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GACO0430T031S004
4/30/2025 10:50:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0011-04 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	5.99		0.253	mg/kg	10	B5E0134	05/01/2025	05/02/2025	
Barium	127		71.4	"	"	"	"	"	
Cadmium	ND		0.331	"	"	"	"	"	U
Copper	ND		40.1	"	"	"	"	"	U
Lead	13.5		12.2	"	"	"	"	"	
Nickel	ND		22.6	"	"	"	"	"	U
Selenium	0.358		0.226	"	"	"	"	"	
Silver	ND		0.697	"	"	"	"	"	U
Zinc	ND		322	"	"	"	"	"	U

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Kyle Lawrence
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GACO0430T031S005
4/30/2025 11:25:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0011-05 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.91		0.0998	mg/L	1	B5E0110	05/01/2025	05/05/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.255	mg/kg	1	B5E0124	05/01/2025	05/13/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E0126	05/01/2025	05/02/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	76.4 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0132	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
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 Project: PROJ-054017

GACO0430T031S005
4/30/2025 11:25:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0011-05 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	120 %			70-130		B5E0132	05/01/2025	05/01/2025	
Surrogate: Toluene-d8	104 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	115 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	5.97		0.499	meq/L	10	[CALC]	05/01/2025	05/05/2025	
Magnesium	6.89		0.823	"	"	"	"	"	
Sodium	17.5		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	0.006		0.002	mg/kg	1	B5E0140	05/01/2025	05/02/2025	
2-Methylnaphthalene	0.025		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

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

GACO0430T031S005
4/30/2025 11:25:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0011-05 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND		0.020	mg/kg	1	B5E0140	05/01/2025	05/02/2025	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	97.6 %			60-130		"	"	"	
Surrogate: Pyrene-d10	92.5 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	120 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.28			pH Units	1	B5E0118	05/01/2025	05/02/2025	
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SAR by 20B Saturated Paste

SAR	6.88		0.0100	SAR	1	B5E0106	05/01/2025	05/05/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.42		0.00500	mmhos/cm	1	B5E0118	05/01/2025	05/02/2025	
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Table 915 metals by EPA 6020B

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

GACO0430T031S005
4/30/2025 11:25:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0011-05 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	1.42		0.257	mg/kg	10	B5E0134	05/01/2025	05/02/2025	
Barium	ND		72.6	"	"	"	"	"	U
Cadmium	ND		0.336	"	"	"	"	"	U
Copper	ND		40.7	"	"	"	"	"	U
Lead	ND		12.4	"	"	"	"	"	U
Nickel	ND		23.0	"	"	"	"	"	U
Selenium	0.740		0.230	"	"	"	"	"	
Silver	ND		0.708	"	"	"	"	"	U
Zinc	ND		327	"	"	"	"	"	U

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

GACO0430T031S006
4/30/2025 3:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0011-06 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.06		0.0998	mg/L	1	B5E0110	05/01/2025	05/05/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.246	mg/kg	1	B5E0124	05/01/2025	05/13/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E0126	05/01/2025	05/01/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	75.9 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0132	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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 North Little Rock AR 72118

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

GACO0430T031S006
4/30/2025 3:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0011-06 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	115 %			70-130		B5E0132	05/01/2025	05/02/2025	
Surrogate: Toluene-d8	100 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.93		0.499	meq/L	10	[CALC]	05/01/2025	05/05/2025	
Magnesium	1.12		0.823	"	"	"	"	"	
Sodium	1.54		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0140	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

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

GACO0430T031S006
4/30/2025 3:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0011-06 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND		0.020	mg/kg	1	B5E0140	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	99.0 %			60-130		"	"	"	
Surrogate: Anthracene-d10	93.9 %			60-130		"	"	"	
Surrogate: Pyrene-d10	97.8 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.17			pH Units	1	B5E0118	05/01/2025	05/02/2025	
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SAR by 20B Saturated Paste

SAR	1.24		0.0100	SAR	1	B5E0106	05/01/2025	05/05/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.767		0.00500	mmhos/cm	1	B5E0118	05/01/2025	05/02/2025	
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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

GACO0430T031S006
4/30/2025 3:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0011-06 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	4.27		0.268	mg/kg	10	B5E0134	05/01/2025	05/02/2025	
Barium	93.1		75.7	"	"	"	"	"	
Cadmium	ND		0.351	"	"	"	"	"	U
Copper	ND		42.5	"	"	"	"	"	U
Lead	ND		12.9	"	"	"	"	"	U
Nickel	ND		24.0	"	"	"	"	"	U
Selenium	0.292		0.240	"	"	"	"	"	
Silver	ND		0.739	"	"	"	"	"	U
Zinc	ND		342	"	"	"	"	"	U

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

GACO0430T031S007
4/30/2025 3:35:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0011-07 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.51		0.0999	mg/L	1	B5E0110	05/01/2025	05/05/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.252	mg/kg	1	B5E0124	05/01/2025	05/13/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E0126	05/01/2025	05/01/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	86.2%			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0132	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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CTEH
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 North Little Rock AR 72118

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

GACO0430T031S007
4/30/2025 3:35:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0011-07 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	115 %			70-130		B5E0132	05/01/2025	05/02/2025	
Surrogate: Toluene-d8	99.7 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.90		0.499	meq/L	10	[CALC]	05/01/2025	05/05/2025	
Magnesium	2.84		0.823	"	"	"	"	"	
Sodium	4.02		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0140	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

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

GACO0430T031S007
4/30/2025 3:35:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0011-07 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Fluoranthene	ND		0.020	mg/kg	1	B5E0140	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	99.2 %			60-130		"	"	"	
Surrogate: Anthracene-d10	94.3 %			60-130		"	"	"	
Surrogate: Pyrene-d10	95.7 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.37			pH Units	1	B5E0118	05/01/2025	05/02/2025	
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SAR by 20B Saturated Paste

SAR	2.19		0.0100	SAR	1	B5E0106	05/01/2025	05/05/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.46		0.00500	mmhos/cm	1	B5E0118	05/01/2025	05/02/2025	
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Table 915 metals by EPA 6020B

Origins Laboratory

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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

GACO0430T031S007
4/30/2025 3:35:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0011-07 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	5.00		0.273	mg/kg	10	B5E0134	05/01/2025	05/02/2025	
Barium	97.7		77.2	"	"	"	"	"	
Cadmium	ND		0.358	"	"	"	"	"	U
Copper	ND		43.3	"	"	"	"	"	U
Lead	ND		13.2	"	"	"	"	"	U
Nickel	ND		24.5	"	"	"	"	"	U
Selenium	0.367		0.245	"	"	"	"	"	
Silver	ND		0.754	"	"	"	"	"	U
Zinc	ND		349	"	"	"	"	"	U

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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

GACO0430T031T003
4/30/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0011-08 (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

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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

GACO0430T031T003
4/30/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0011-08 (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

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

GACO0430T031T003
4/30/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0011-08 (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
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

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

GACO0430T031T003
4/30/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0011-08 (Water) Origins Laboratory									
VOC by EPA 8260D									
tert-Butylbenzene	ND		1.00	ug/L	1	B5E0227	05/02/2025	05/02/2025	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	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	99.5 %				70-130	"	"	"	
Surrogate: Toluene-d8	95.2 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %				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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5E0124 - EPA 3060A										
Blank (B5E0124-BLK1)										
					Prepared: 05/01/2025 Analyzed: 05/23/2025					
Hexavalent Chromium	ND	0.250	mg/kg							U
LCS (B5E0124-BS1)										
					Prepared: 05/01/2025 Analyzed: 05/13/2025					
Hexavalent Chromium	2.19	0.250	mg/kg	2.50		87.6	80-120			
Matrix Spike (B5E0124-MS1)										
					Source: E5E0011-07					
					Prepared: 05/01/2025 Analyzed: 05/13/2025					
Hexavalent Chromium	1.14	0.251	mg/kg	2.51	0.0895	41.6	75-125			QM-14
Matrix Spike (B5E0124-MS2)										
					Source: E5E0011-07					
					Prepared: 05/01/2025 Analyzed: 05/13/2025					
Hexavalent Chromium	203	25.8	mg/kg	284	ND	71.3	75-125			QM-14
Matrix Spike Dup (B5E0124-MSD1)										
					Source: E5E0011-07					
					Prepared: 05/01/2025 Analyzed: 05/13/2025					
Hexavalent Chromium	1.91	0.253	mg/kg	2.53	0.0895	72.3	75-125	51.0	200	QM-14
Post Spike (B5E0124-PS1)										
					Source: E5E0011-07					
					Prepared: 05/01/2025 Analyzed: 05/13/2025					
Hexavalent Chromium	48.6		ug/L	50.0	1.77	93.6	80-120			

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

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 B5E0106 - Saturated Paste Metals

Blank (B5E0106-BLK1)

Prepared: 05/01/2025 Analyzed: 05/05/2025

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

Duplicate (B5E0106-DUP1)

Source: E5E0011-07

Prepared: 05/01/2025 Analyzed: 05/05/2025

Calcium PPM	65.2	10.0	mg/L		78.1			18.0	50	
SAR	ND	0.0100	SAR		2.19				200	U
Magnesium PPM	28.5	10.0	mg/L		34.5			19.1	50	
Sodium PPM	82.2	10.0	"		92.4			11.7	50	

Batch B5E0110 - DTPA Sorbitol Preparation

Blank (B5E0110-BLK1)

Prepared: 05/01/2025 Analyzed: 05/05/2025

Boron	ND	0.100	mg/L							U
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Duplicate (B5E0110-DUP1)

Source: E5E0011-07

Prepared: 05/01/2025 Analyzed: 05/05/2025

Boron	1.53	0.100	mg/L		1.51			1.60	50	
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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

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 B5E0140 - EPA 3580

Blank (B5E0140-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		98.9	60-130			
Surrogate: Anthracene-d10	190		"	200		92.6	60-130			
Surrogate: Pyrene-d10	200		"	200		99.5	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

LCS (B5E0140-BS1)

Prepared: 05/01/2025 Analyzed: 05/01/2025

1-Methylnaphthalene	0.188	0.002	mg/kg	0.200		94.0	70-130			
2-Methylnaphthalene	0.188	0.002	"	0.200		94.1	70-130			
Acenaphthene	0.199	0.020	"	0.200		99.3	70-130			
Anthracene	0.191	0.020	"	0.200		95.6	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

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 B5E0140 - EPA 3580

LCS (B5E0140-BS1)

Prepared: 05/01/2025 Analyzed: 05/01/2025

Benzo (a) anthracene	0.205	0.005	mg/kg	0.200		103	70-130			
Benzo (a) pyrene	0.195	0.020	"	0.200		97.5	70-130			
Benzo (b) fluoranthene	0.237	0.020	"	0.200		119	70-130			
Benzo (g,h,i) perylene	0.204	0.020	"	0.200		102	70-130			
Benzo (k) fluoranthene	0.211	0.020	"	0.200		106	70-130			
Chrysene	0.198	0.020	"	0.200		99.0	70-130			
Dibenz (a,h) anthracene	0.226	0.020	"	0.200		113	70-130			
Fluoranthene	0.211	0.020	"	0.200		106	70-130			
Fluorene	0.198	0.020	"	0.200		99.1	70-130			
Indeno (1,2,3-cd) pyrene	0.208	0.020	"	0.200		104	70-130			
Naphthalene	0.198	0.002	"	0.200		99.1	70-130			
Phenanthrene	0.201	0.020	"	0.200		101	70-130			
Pyrene	0.208	0.020	"	0.200		104	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		92.5	60-130			
Surrogate: Pyrene-d10	200		"	200		99.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike (B5E0140-MS1)

Source: E5E0011-07

Prepared: 05/01/2025 Analyzed: 05/01/2025

1-Methylnaphthalene	0.187	0.002	mg/kg	0.200	ND	93.6	70-130			
2-Methylnaphthalene	0.190	0.002	"	0.200	0.001	94.2	70-130			
Acenaphthene	0.197	0.020	"	0.200	0.0006	98.2	70-130			
Anthracene	0.213	0.020	"	0.200	ND	107	70-130			
Benzo (a) anthracene	0.204	0.005	"	0.200	ND	102	70-130			
Benzo (a) pyrene	0.208	0.020	"	0.200	0.002	103	70-130			
Benzo (b) fluoranthene	0.229	0.020	"	0.200	0.001	114	70-130			
Benzo (g,h,i) perylene	0.195	0.020	"	0.200	0.001	97.1	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

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 B5E0140 - EPA 3580

Matrix Spike (B5E0140-MS1)

Source: E5E0011-07

Prepared: 05/01/2025 Analyzed: 05/01/2025

Benzo (k) fluoranthene	0.200	0.020	mg/kg	0.200	0.002	99.1	70-130			
Chrysene	0.202	0.020	"	0.200	0.0009	101	70-130			
Dibenz (a,h) anthracene	0.222	0.020	"	0.200	0.0005	111	70-130			
Fluoranthene	0.209	0.020	"	0.200	0.0004	105	70-130			
Fluorene	0.195	0.020	"	0.200	ND	97.6	70-130			
Indeno (1,2,3-cd) pyrene	0.196	0.020	"	0.200	0.002	97.3	70-130			
Naphthalene	0.197	0.002	"	0.200	ND	98.3	70-130			
Phenanthrene	0.202	0.020	"	0.200	ND	101	70-130			
Pyrene	0.203	0.020	"	0.200	ND	102	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.1	60-130			
Surrogate: Anthracene-d10	190		"	200		93.9	60-130			
Surrogate: Pyrene-d10	200		"	200		97.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.3	60-130			

Matrix Spike Dup (B5E0140-MSD1)

Source: E5E0011-07

Prepared: 05/01/2025 Analyzed: 05/01/2025

1-Methylnaphthalene	0.186	0.002	mg/kg	0.200	ND	93.0	70-130	0.612	20	
2-Methylnaphthalene	0.189	0.002	"	0.200	0.001	94.0	70-130	0.290	20	
Acenaphthene	0.197	0.020	"	0.200	0.0006	98.1	70-130	0.0376	20	
Anthracene	0.196	0.020	"	0.200	ND	98.0	70-130	8.41	20	
Benzo (a) anthracene	0.205	0.005	"	0.200	ND	102	70-130	0.226	20	
Benzo (a) pyrene	0.215	0.020	"	0.200	0.002	106	70-130	3.01	20	
Benzo (b) fluoranthene	0.234	0.020	"	0.200	0.001	117	70-130	2.12	20	
Benzo (g,h,i) perylene	0.197	0.020	"	0.200	0.001	97.9	70-130	0.852	20	
Benzo (k) fluoranthene	0.206	0.020	"	0.200	0.002	102	70-130	2.98	20	
Chrysene	0.208	0.020	"	0.200	0.0009	103	70-130	2.62	20	
Dibenz (a,h) anthracene	0.226	0.020	"	0.200	0.0005	113	70-130	1.80	20	
Fluoranthene	0.212	0.020	"	0.200	0.0004	106	70-130	1.15	20	

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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

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 B5E0140 - EPA 3580

Matrix Spike Dup (B5E0140-MSD1)

Source: E5E0011-07

Prepared: 05/01/2025 Analyzed: 05/01/2025

Fluorene	0.196	0.020	mg/kg	0.200	ND	98.0	70-130	0.377	20	
Indeno (1,2,3-cd) pyrene	0.196	0.020	"	0.200	0.002	97.3	70-130	0.0104	20	
Naphthalene	0.196	0.002	"	0.200	ND	98.2	70-130	0.0712	20	
Phenanthrene	0.202	0.020	"	0.200	ND	101	70-130	0.237	20	
Pyrene	0.205	0.020	"	0.200	ND	103	70-130	1.05	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.3	60-130			
Surrogate: Anthracene-d10	190		"	200		93.3	60-130			
Surrogate: Pyrene-d10	200		"	200		97.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

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Kyle Lawrence
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 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
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Batch B5E0126 - EPA 3550B

Blank (B5E0126-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	21		"	24.9		84.0	50-150			

LCS (B5E0126-BS1)

Prepared: 05/01/2025 Analyzed: 05/01/2025

Diesel (C10-C28)	1000	50.0	mg/kg	1000		100	70-130			
Residual Range Organics (C28-C40)	865	200	"	1000		86.5	70-130			
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

Matrix Spike (B5E0126-MS1)

Source: E5E0011-07

Prepared: 05/01/2025 Analyzed: 05/01/2025

Diesel (C10-C28)	937	50.0	mg/kg	1000	ND	93.7	70-130			
Residual Range Organics (C28-C40)	858	200	"	1000	ND	85.8	70-130			
Surrogate: o-Terphenyl	41		"	49.8		82.0	50-150			

Matrix Spike Dup (B5E0126-MSD1)

Source: E5E0011-07

Prepared: 05/01/2025 Analyzed: 05/01/2025

Diesel (C10-C28)	911	50.0	mg/kg	1000	ND	91.1	70-130	2.77	35	
Residual Range Organics (C28-C40)	841	200	"	1000	ND	84.1	70-130	2.09	35	
Surrogate: o-Terphenyl	35		"	49.8		69.9	50-150			

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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

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 B5E0134 - EPA 3050B

Blank (B5E0134-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 (B5E0134-BS1)

Prepared: 05/01/2025 Analyzed: 05/02/2025

Arsenic	5.70	0.290	mg/kg	5.00		114	80-120			
Barium	580	82.0	"	500		116	80-120			
Cadmium	5.66	0.380	"	5.00		113	80-120			
Copper	59.4	46.0	"	50.0		119	80-120			
Lead	5.66	14.0	"	5.00		113	80-120			U
Nickel	5.92	26.0	"	5.00		118	80-120			U
Selenium	5.73	0.260	"	5.00		115	80-120			
Silver	5.60	0.800	"	5.00		112	80-120			
Zinc	59.6	370	"	50.0		119	80-120			U

Matrix Spike (B5E0134-MS1)

Source: E5E0011-07

Prepared: 05/01/2025 Analyzed: 05/02/2025

Arsenic	10.0	0.264	mg/kg	4.55	5.00	110	75-125			
Barium	587	74.6	"	455	97.7	108	75-125			
Cadmium	5.05	0.346	"	4.55	0.289	105	75-125			
Copper	73.4	41.8	"	45.5	23.4	110	75-125			
Lead	16.7	12.7	"	4.55	12.0	105	75-125			

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Jen Pellegrini For Jordan A. Bynon, Project Manager



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 5120 North Shore Drive
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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 B5E0134 - EPA 3050B

Matrix Spike (B5E0134-MS1)

Source: E5E0011-07

Prepared: 05/01/2025 Analyzed: 05/02/2025

Nickel	18.5	23.6	mg/kg	4.55	14.4	90.6	75-125			U
Selenium	4.96	0.236	"	4.55	0.367	101	75-125			
Silver	4.74	0.727	"	4.55	0.0650	103	75-125			
Zinc	126	336	"	45.5	78.9	103	75-125			U

Matrix Spike Dup (B5E0134-MSD1)

Source: E5E0011-07

Prepared: 05/01/2025 Analyzed: 05/02/2025

Arsenic	10.2	0.271	mg/kg	4.68	5.00	110	75-125	1.48	20	
Barium	619	76.7	"	468	97.7	111	75-125	5.32	20	
Cadmium	5.33	0.355	"	4.68	0.289	108	75-125	5.52	20	
Copper	77.8	43.0	"	46.8	23.4	116	75-125	5.89	20	
Lead	17.2	13.1	"	4.68	12.0	112	75-125	2.68	20	
Nickel	19.4	24.3	"	4.68	14.4	108	75-125	5.03	20	U
Selenium	5.30	0.243	"	4.68	0.367	105	75-125	6.60	20	
Silver	5.03	0.748	"	4.68	0.0650	106	75-125	5.90	20	
Zinc	133	346	"	46.8	78.9	116	75-125	5.63	20	U

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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

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 B5E0118 - Saturated Paste pH/EC

Blank (B5E0118-BLK1)

Prepared: 05/01/2025 Analyzed: 05/02/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B5E0118-DUP1)

Source: E5E0011-07

Prepared: 05/01/2025 Analyzed: 05/02/2025

pH	8.10		pH Units		8.37			3.28	25	
Specific Conductance (EC)	1.32	0.00500	mmhos/cm		1.46			9.75	25	

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 North Little Rock AR 72118

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E0132 - EPA 5030 (soil)

Blank (B5E0132-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	0.13		"	0.125	106		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	101		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.4		70-130			

LCS (B5E0132-BS1)

Prepared: 05/01/2025 Analyzed: 05/01/2025

1,2,4-Trimethylbenzene	0.0977	0.00200	mg/kg	0.100	97.7		70-130			
1,3,5-Trimethylbenzene	0.0992	0.00200	"	0.100	99.2		70-130			
Benzene	0.0930	0.00200	"	0.100	93.0		70-130			
Ethylbenzene	0.0955	0.00200	"	0.100	95.5		70-130			
Naphthalene	0.0984	0.00380	"	0.100	98.4		70-130			
Toluene	0.0916	0.00200	"	0.100	91.6		70-130			
o-Xylene	0.0947	0.00200	"	0.100	94.7		70-130			
m,p-Xylene	0.186	0.00400	"	0.200	92.9		70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	103		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	100		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	98.2		70-130			

Matrix Spike (B5E0132-MS1)

Source: E5E0011-07

Prepared: 05/01/2025 Analyzed: 05/01/2025

1,2,4-Trimethylbenzene	0.0671	0.00200	mg/kg	0.100	ND	67.1	70-130			QM-07
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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
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Batch B5E0132 - EPA 5030 (soil)

Matrix Spike (B5E0132-MS1)

Source: E5E0011-07

Prepared: 05/01/2025 Analyzed: 05/01/2025

1,3,5-Trimethylbenzene	0.0676	0.00200	mg/kg	0.100	ND	67.6	70-130			QM-07
Benzene	0.0813	0.00200	"	0.100	ND	81.3	70-130			
Ethylbenzene	0.0737	0.00200	"	0.100	ND	73.7	70-130			
Naphthalene	0.0609	0.00380	"	0.100	ND	60.9	70-130			QM-07
Toluene	0.0756	0.00200	"	0.100	ND	75.6	70-130			
o-Xylene	0.0737	0.00200	"	0.100	ND	73.7	70-130			
m,p-Xylene	0.143	0.00400	"	0.200	ND	71.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Matrix Spike Dup (B5E0132-MSD1)

Source: E5E0011-07

Prepared: 05/01/2025 Analyzed: 05/01/2025

1,2,4-Trimethylbenzene	0.0645	0.00200	mg/kg	0.100	ND	64.5	70-130	4.01	20	QM-07
1,3,5-Trimethylbenzene	0.0647	0.00200	"	0.100	ND	64.7	70-130	4.41	20	QM-07
Benzene	0.0798	0.00200	"	0.100	ND	79.8	70-130	1.86	20	
Ethylbenzene	0.0719	0.00200	"	0.100	ND	71.9	70-130	2.47	20	
Naphthalene	0.0594	0.00380	"	0.100	ND	59.4	70-130	2.56	20	QM-07
Toluene	0.0735	0.00200	"	0.100	ND	73.5	70-130	2.87	20	
o-Xylene	0.0722	0.00200	"	0.100	ND	72.2	70-130	2.03	20	
m,p-Xylene	0.139	0.00400	"	0.200	ND	69.7	70-130	2.37	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	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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 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 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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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
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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
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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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
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Batch B5E0227 - EPA 5030B (Water)

Blank (B5E0227-BLK1)

Prepared: 05/02/2025 Analyzed: 05/02/2025

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	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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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

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 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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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
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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			
m,p-Xylene	87.9	2.00	"	100		87.9	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			
o-Xylene	44.2	1.00	"	50.0		88.3	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			

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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
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Batch B5E0227 - EPA 5030B (Water)

LCS (B5E0227-BS1)

Prepared: 05/02/2025 Analyzed: 05/02/2025

Trichloroethene	42.8	1.00	ug/L	50.0		85.6	70-130			
Trichlorofluoromethane	48.5	1.00	"	50.0		97.0	70-130			
Vinyl chloride	49.1	1.00	"	50.0		98.2	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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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
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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
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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			
m,p-Xylene	80.9	2.00	"	100	ND	80.9	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			
o-Xylene	40.5	1.00	"	50.0	ND	81.0	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			
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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Jen Pellegrini For Jordan A. Bynon, Project Manager



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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 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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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
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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	
m,p-Xylene	96.4	2.00	"	100	ND	96.4	70-130	17.4	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	

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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 B5E0227 - EPA 5030B (Water)

Matrix Spike Dup (B5E0227-MSD1)

Source: E5E0001-02

Prepared: 05/02/2025 Analyzed: 05/02/2025

o-Xylene	48.1	1.00	ug/L	50.0	ND	96.2	70-130	17.2	20	
sec-Butylbenzene	50.2	1.00	"	50.0	ND	100	70-130	17.1	20	
Styrene	48.2	1.00	"	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	
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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Kyle Lawrence
Project Number: PROJ-054017
Project: PROJ-054017

Notes and Definitions

- U Sample is Non-Detect.
 - S-07 High surrogate in sample, however sample is non-detect. High surrogate indicates result values are biased high.
 - 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-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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Jen Pellegrini For Jordan A. Bynon, Project Manager

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