



CTEH

June 06, 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 May 22, 2025. This project is associated with Origins project number E5E0778-01.

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
GACO0521T045-1CRS001	E5E0778-01	Soil	May 21, 2025 14:20	05/22/2025 07:45
GACO0521T045-1CRS002	E5E0778-02	Soil	May 21, 2025 14:35	05/22/2025 07:45
GACO0521T045-1CRS003	E5E0778-03	Soil	May 21, 2025 14:50	05/22/2025 07:45
GACO0521T045-1CRS004	E5E0778-04	Soil	May 21, 2025 15:05	05/22/2025 07:45
GACO0521T045-1CRS005	E5E0778-05	Soil	May 21, 2025 15:30	05/22/2025 07:45
GACO0521T045-1CRS006	E5E0778-06	Soil	May 21, 2025 15:50	05/22/2025 07:45
GACO0521T045-1CRS007	E5E0778-07	Soil	May 21, 2025 16:15	05/22/2025 07:45
GACO0521T045-1CRS008	E5E0778-08	Soil	May 21, 2025 16:30	05/22/2025 07:45
GACO0521T045-1CRS009	E5E0778-09	Soil	May 21, 2025 14:20	05/22/2025 07:45
GACO0521T045-1CRT004	E5E0778-10	Water	May 21, 2025 7:00	05/22/2025 07:45
GACO0521T045-1CRS010	E5E0778-11	Soil	May 21, 2025 15:40	05/22/2025 07:45
GACO0521T045-1CRS011	E5E0778-12	Soil	May 21, 2025 15:55	05/22/2025 07:45
GACO0521T045-1CRS012	E5E0778-13	Soil	May 21, 2025 16:10	05/22/2025 07:45
GACO0521T045-1CRS013	E5E0778-14	Soil	May 21, 2025 15:00	05/22/2025 07:45

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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

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GACO0521T045-1CRC013	E5E0778-15	Soil	May 21, 2025 15:00	05/22/2025 07:45
GACO0521T045-1CRT005	E5E0778-16	Water	May 21, 2025 7:00	05/22/2025 07:45

On 5/22/2025, Elysia Masters contacted Emma Heather Souders via email regarding E5E0778 requesting that sample GACO0521T045-1CRS009 be used as MS/MSD. Requested modifications to the chain of custody were made by Emma Heather Souders on 5/23/2025.

On 5/22/2025, Elysia Masters contacted Emma Heather Souders via email regarding E5E0778 requesting that sample ID GACO05021T045-1CRS013 be updated to GACO05021T045-1CRC013. Requested modifications to the chain of custody were made by Emma Heather Souders on 5/23/2025.

Origins Laboratory

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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

CUSTOMER INFORMATION		PROJECT INFORMATION		ANALYSIS REQUEST		TEST INSTRUCTIONS / COMMENTS	
Enthalpy Analytical - Denver 1275 W. Elk Place, Denver, CO 80211 Phone: 303-433-1372		Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Water P = Product O = Oil SD = Sediment T = Tissue WP = Wipe WW = Wastewater X = Other		Sample Type: C = Composite G = Grab or Discrete B = Bulk O = Other		Preservation: 0 = none 1 = Na ₂ SO ₃ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = Other	
Company: CTEH Report To: Christopher Kyle Lawrence Eric Cahin Andrew Hehrhart Tam Medinger Madelyn Minkeman Email: klawrence@enthalpy.com Address: 5120 Worthington Dr, North Little Rock, AR 72118 Phone:		Name: PROJ-054017 Bishop Loss of Containment Number: P.O. #: Address: Galena, CO Site Name: Global ID:		Standard: 1 Day 5 Day 3 Day Custom FAT ASAP		Turn Around Time (rush by advanced notice only)	
Billing Instruction: cchap@montrose-env.com Sample ID:		Sampled By: <i>Jonathan Allen</i>		Analysis Request:		Test Instructions / Comments:	
Sample ID	Sampling Date	Sampling Time (24 hr)	Matrix Type	Sample Pres.	Cont. No.	Cont. Size	Initials
1 GAC085217045-1CRS001	5/21/2025	14:20S	G	0	2	4 oz	JA
2 GAC085217045-1CRS002	5/21/2025	14:35S	G	0	2	4 oz	JA
3 GAC085217045-1CRS003	5/21/2025	14:50S	G	0	2	4 oz	JA
4 GAC085217045-1CRS004	5/21/2025	15:05S	G	0	2	4 oz	JA
5 GAC085217045-1CRS005	5/21/2025	15:20S	G	0	2	4 oz	JA
6 GAC085217045-1CRS006	5/21/2025	15:35S	G	0	2	4 oz	JA
7 GAC085217045-1CRS007	5/21/2025	16:15S	G	0	2	4 oz	JA
8 GAC085217045-1CRS008	5/21/2025	16:30S	G	0	2	4 oz	JA
9 GAC085217045-1CRS009	5/21/2025	14:20S	G	0	2	4 oz	JA
10 GAC085217045-1CRS004	5/21/2025	7:00X	B	2	2	40 mL	JA

Signature: *[Signature]* Print Name: *Jonathan Allen* Company/Title: *Montrose* Date/Time: *05/21/25 07:45*

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Jefe Pellegrini

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ORIGINS LABORATORY

CTEH
5120 North Shore Drive
North Little Rock AR 72118

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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: CSE0778

Client: CTEH

Client Project ID: Proj 054017

Checklist Completed by: [Signature]

Shipped Via: HD

Date/time completed: 5/22/25

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: N/A

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

Cooler Number/Temperature: 1/19 °C / _____ °C / _____ °C (Describe)

Thermometer ID: 7007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>			
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?		<input checked="" type="checkbox"/>		For sample - 09, 6 containers were received instead
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH <2 for samples preserved with HNO3, HCl, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any): <u>CF 3, did not indicate ms/msd sample</u>				

⁽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) [Signature]

Date/Time Reviewed 5/22/25

Origins Laboratory

[Signature]

Jen Pellegrini For Jordan A. Bynon, Project Manager

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Client of Custody Record		Page 2 of 2		Time Allowed (Time (each by advanced notice only))	
ASAP	1 Day	3 Day	5 Day	1 Week	ASAP

ENTHALPY ANALYTICAL 2725 W. Enthalpy Drive, Suite 101 Phone: 935-491-1222		Meth. A: 5 SW: 10 SD: 10 NW: 10 NE: 10		Sample Prep: 1 Preservation: 1 Storage: 1	
CLIENT INFORMATION Company: CTEH Address: 5120 North Shore Drive, North Little Rock, AR 72118 City: Little Rock, AR 72118		PROJECT INFORMATION Project Name: [Blank] Project No: [Blank]		ANALYSIS Method: [Blank] Instrument: [Blank]	

Sample ID	Sample Date	Sample Time (H)	Sample Type	Sample No	Sample Conc	Sample Units
1. 60408211945-10001	5/21/2025	15:45	0	2	4.02	1A
2. 60408211945-10002	5/21/2025	15:55	0	2	4.02	1A
3. 60408211945-10003	5/21/2025	15:45	0	2	4.02	1A
4. 60408211945-10004	5/21/2025	15:45	0	2	4.02	1A
5. 60408211945-10005	5/21/2025	15:45	0	2	4.02	1A
6. 60408211945-10006	5/21/2025	15:45	0	2	4.02	1A
7. 60408211945-10007	5/21/2025	15:45	0	2	4.02	1A
8. 60408211945-10008	5/21/2025	15:45	0	2	4.02	1A
9. 60408211945-10009	5/21/2025	15:45	0	2	4.02	1A
10. 60408211945-10010	5/21/2025	15:45	0	2	4.02	1A

Received By: [Signature]	Print Name: Jennifer Allen	Company Title: Analyst	Date Time: 5/21/25 18:00
Received By: [Signature]	Print Name: [Blank]	Company Title: [Blank]	Date Time: [Blank]
Received By: [Signature]	Print Name: [Blank]	Company Title: [Blank]	Date Time: [Blank]
Received By: [Signature]	Print Name: [Blank]	Company Title: [Blank]	Date Time: [Blank]
Received By: [Signature]	Print Name: [Blank]	Company Title: [Blank]	Date Time: [Blank]
Received By: [Signature]	Print Name: [Blank]	Company Title: [Blank]	Date Time: [Blank]

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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

GACO0521T045-1CRS001
5/21/2025 2:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-01 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.35		0.100	mg/L	1	B5E2231	05/22/2025	05/28/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E2235	05/22/2025	05/22/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: <i>o</i> -Terphenyl	102 %								
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E2239	05/22/2025	05/22/2025	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
Surrogate: 1,2-Dichloroethane-d4	107 %								
Surrogate: Toluene-d8	98.0 %								
Surrogate: 4-Bromofluorobenzene	101 %								

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 North Little Rock AR 72118

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

GACO0521T045-1CRS001

5/21/2025 2:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0778-01 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	3.79		0.499	meq/L	10	[CALC]	05/22/2025	05/27/2025	
Magnesium	2.16		0.823	"	"	"	"	"	
Sodium	0.615		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	0.002		0.002	mg/kg	1	B5E2245	05/22/2025	05/22/2025	
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	0.010		0.005	"	"	"	"	"	
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	0.028		0.020	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	0.070		0.020	"	"	"	"	"	
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	0.057		0.020	"	"	"	"	"	

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

GACO0521T045-1CRS001

5/21/2025 2:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0778-01 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	102 %			60-130		B5E2245	05/22/2025	05/22/2025	
Surrogate: Anthracene-d10	90.4 %			60-130		"	"	"	
Surrogate: Pyrene-d10	99.9 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %			60-130		"	"	"	

pH in Soil by 9045D

pH	7.83			pH Units	1	B5E2229	05/22/2025	05/27/2025	
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SAR by 20B Saturated Paste

SAR	0.356		0.0100	SAR	1	B5E2272	05/22/2025	05/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.785		0.00500	mmhos/cm	1	B5E2229	05/22/2025	05/27/2025	
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Table 915 metals by EPA 6020B

Arsenic	4.01		0.270	mg/kg	10	B5E2221	05/22/2025	05/23/2025	
Barium	89.6		76.3	"	"	"	"	"	
Cadmium	ND		0.354	"	"	"	"	"	U
Copper	ND		42.8	"	"	"	"	"	U
Lead	ND		13.0	"	"	"	"	"	U
Nickel	ND		24.2	"	"	"	"	"	U

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 North Little Rock AR 72118

Kyle Lawrence
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 Project: PROJ-054017

GACO0521T045-1CRS001
5/21/2025 2:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-01 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Selenium	0.291		0.242	mg/kg	10	B5E2221	05/22/2025	05/23/2025	
Silver	ND		0.744	"	"	"	"	"	U
Zinc	ND		344	"	"	"	"	"	U

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CTEH
 5120 North Shore Drive
 North Little Rock AR 72118

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

GACO0521T045-1CRS002
5/21/2025 2:35:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-02 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.511		0.101	mg/L	1	B5E2231	05/22/2025	05/28/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E2235	05/22/2025	05/22/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	119 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E2239	05/22/2025	05/22/2025	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
Surrogate: 1,2-Dichloroethane-d4	108 %			70-130		"	"	"	
Surrogate: Toluene-d8	96.6 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %			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

GACO0521T045-1CRS002

5/21/2025 2:35:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0778-02 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	1.18		0.499	meq/L	10	[CALC]	05/22/2025	05/27/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E2245	05/22/2025	05/22/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	0.017		0.005	"	"	"	"	"	
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	0.024		0.020	"	"	"	"	"	
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	0.026		0.020	"	"	"	"	"	
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	0.022		0.020	"	"	"	"	"	

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Kyle Lawrence
 Project Number: PROJ-054017
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GACO0521T045-1CRS002

5/21/2025 2:35:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0778-02 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	101 %			60-130		B5E2245	05/22/2025	05/22/2025	
Surrogate: Anthracene-d10	88.6 %			60-130		"	"	"	
Surrogate: Pyrene-d10	99.0 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.2 %			60-130		"	"	"	

pH in Soil by 9045D

pH	7.88			pH Units	1	B5E2229	05/22/2025	05/27/2025	
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SAR by 20B Saturated Paste

SAR	0.195		0.0100	SAR	1	B5E2272	05/22/2025	05/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.230		0.00500	mmhos/cm	1	B5E2229	05/22/2025	05/27/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.73		0.254	mg/kg	10	B5E2221	05/22/2025	05/23/2025	
Barium	ND		72.0	"	"	"	"	"	U
Cadmium	ND		0.333	"	"	"	"	"	U
Copper	ND		40.4	"	"	"	"	"	U
Lead	21.4		12.3	"	"	"	"	"	
Nickel	ND		22.8	"	"	"	"	"	U

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 5120 North Shore Drive
 North Little Rock AR 72118

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

GACO0521T045-1CRS002
5/21/2025 2:35:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-02 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Selenium	ND		0.228	mg/kg	10	B5E2221	05/22/2025	05/23/2025	U
Silver	ND		0.702	"	"	"	"	"	U
Zinc	ND		325	"	"	"	"	"	U

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

GACO0521T045-1CRS003

5/21/2025 2:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-03 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.37		0.0995	mg/L	1	B5E2231	05/22/2025	05/28/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E2235	05/22/2025	05/22/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	109 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E2239	05/22/2025	05/22/2025	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
Surrogate: 1,2-Dichloroethane-d4	110 %			70-130		"	"	"	
Surrogate: Toluene-d8	98.0 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	

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

GACO0521T045-1CRS003

5/21/2025 2:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0778-03 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	4.25		0.499	meq/L	10	[CALC]	05/22/2025	05/27/2025	
Magnesium	3.02		0.823	"	"	"	"	"	
Sodium	1.53		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E2245	05/22/2025	05/22/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	0.009		0.005	"	"	"	"	"	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
Fluoranthene	0.020		0.020	"	"	"	"	"	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

Origins Laboratory

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 North Little Rock AR 72118

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

GACO0521T045-1CRS003

5/21/2025 2:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0778-03 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	102 %			60-130		B5E2245	05/22/2025	05/22/2025	
Surrogate: Anthracene-d10	95.0 %			60-130		"	"	"	
Surrogate: Pyrene-d10	97.5 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %			60-130		"	"	"	

pH in Soil by 9045D

pH	7.56			pH Units	1	B5E2229	05/22/2025	05/27/2025	
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SAR by 20B Saturated Paste

SAR	0.802		0.0100	SAR	1	B5E2272	05/22/2025	05/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.77		0.00500	mmhos/cm	1	B5E2229	05/22/2025	05/27/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.21		0.273	mg/kg	10	B5E2221	05/22/2025	05/23/2025	
Barium	ND		77.3	"	"	"	"	"	U
Cadmium	ND		0.358	"	"	"	"	"	U
Copper	ND		43.3	"	"	"	"	"	U
Lead	ND		13.2	"	"	"	"	"	U

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Kyle Lawrence
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GACO0521T045-1CRS003
5/21/2025 2:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-03 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Nickel	ND		24.5	mg/kg	10	B5E2221	05/22/2025	05/23/2025	U
Selenium	ND		0.245	"	"	"	"	"	U
Silver	ND		0.754	"	"	"	"	"	U
Zinc	ND		349	"	"	"	"	"	U

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

GACO0521T045-1CRS004

5/21/2025 3:05:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-04 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.983		0.101	mg/L	1	B5E2231	05/22/2025	05/28/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E2235	05/22/2025	05/22/2025	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	B5E2239	05/22/2025	05/22/2025	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
Surrogate: 1,2-Dichloroethane-d4	113 %			70-130		"	"	"	
Surrogate: Toluene-d8	96.6 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %			70-130		"	"	"	

Origins Laboratory

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Kyle Lawrence
 Project Number: PROJ-054017
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GACO0521T045-1CRS004

5/21/2025 3:05:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0778-04 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	0.846		0.499	meq/L	10	[CALC]	05/22/2025	05/29/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.73		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E2245	05/22/2025	05/22/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	0.028		0.005	"	"	"	"	"	
Benzo (a) pyrene	0.036		0.020	"	"	"	"	"	
Benzo (b) fluoranthene	0.039		0.020	"	"	"	"	"	
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	0.031		0.020	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	0.042		0.020	"	"	"	"	"	
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	0.021		0.020	"	"	"	"	"	
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	0.040		0.020	"	"	"	"	"	

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

GACO0521T045-1CRS004
5/21/2025 3:05:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0778-04 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	102 %			60-130		B5E2245	05/22/2025	05/22/2025	
Surrogate: Anthracene-d10	94.8 %			60-130		"	"	"	
Surrogate: Pyrene-d10	98.3 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.16			pH Units	1	B5E2229	05/22/2025	05/27/2025	
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SAR by 20B Saturated Paste

SAR	4.42		0.0100	SAR	1	B5E2272	05/22/2025	05/29/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.549		0.00500	mmhos/cm	1	B5E2229	05/22/2025	05/27/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.61		0.259	mg/kg	10	B5E2221	05/22/2025	05/23/2025	
Barium	ND		73.1	"	"	"	"	"	U
Cadmium	0.369		0.339	"	"	"	"	"	
Copper	ND		41.0	"	"	"	"	"	U
Lead	44.3		12.5	"	"	"	"	"	
Nickel	ND		23.2	"	"	"	"	"	U

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 Project: PROJ-054017

GACO0521T045-1CRS004
5/21/2025 3:05:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-04 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Selenium	0.247		0.232	mg/kg	10	B5E2221	05/22/2025	05/23/2025	
Silver	ND		0.713	"	"	"	"	"	U
Zinc	ND		330	"	"	"	"	"	U

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Kyle Lawrence
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GACO0521T045-1CRS005

5/21/2025 3:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-05 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.45		0.0990	mg/L	1	B5E2231	05/22/2025	05/28/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E2235	05/22/2025	05/22/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	112 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E2239	05/22/2025	05/22/2025	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
Surrogate: 1,2-Dichloroethane-d4	111 %			70-130		"	"	"	
Surrogate: Toluene-d8	88.4 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %			70-130		"	"	"	

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 North Little Rock AR 72118

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

GACO0521T045-1CRS005
5/21/2025 3:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-05 (Soil)									
Origins Laboratory									
Metals by Saturated Paste by EPA 6010									
Calcium	3.03		0.499	meq/L	10	[CALC]	05/22/2025	05/27/2025	
Magnesium	1.32		0.823	"	"	"	"	"	
Sodium	1.76		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	0.003		0.002	mg/kg	1	B5E2245	05/22/2025	05/22/2025	
2-Methylnaphthalene	0.003		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	0.026		0.005	"	"	"	"	"	
Benzo (a) pyrene	0.031		0.020	"	"	"	"	"	
Benzo (b) fluoranthene	0.050		0.020	"	"	"	"	"	
Benzo (k) fluoranthene	0.021		0.020	"	"	"	"	"	
Chrysene	0.036		0.020	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	0.040		0.020	"	"	"	"	"	
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	0.027		0.020	"	"	"	"	"	
Naphthalene	0.003		0.002	"	"	"	"	"	
Pyrene	0.038		0.020	"	"	"	"	"	
Surrogate: Fluorene-d10	102 %				60-130	"	"	"	

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Kyle Lawrence
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 Project: PROJ-054017

GACO0521T045-1CRS005
5/21/2025 3:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0778-05 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Surrogate: Anthracene-d10	91.2 %			60-130		B5E2245	05/22/2025	05/22/2025	
Surrogate: Pyrene-d10	98.5 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %			60-130		"	"	"	

pH in Soil by 9045D

pH	7.72			pH Units	1	B5E2229	05/22/2025	05/27/2025	
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SAR by 20B Saturated Paste

SAR	1.20		0.0100	SAR	1	B5E2272	05/22/2025	05/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.901		0.00500	mmhos/cm	1	B5E2229	05/22/2025	05/27/2025	
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Table 915 metals by EPA 6020B

Arsenic	13.6		0.267	mg/kg	10	B5E2221	05/22/2025	05/23/2025	
Barium	108		75.5	"	"	"	"	"	
Cadmium	ND		0.350	"	"	"	"	"	U
Copper	ND		42.3	"	"	"	"	"	U
Lead	62.2		12.9	"	"	"	"	"	
Nickel	ND		23.9	"	"	"	"	"	U
Selenium	0.338		0.239	"	"	"	"	"	

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 North Little Rock AR 72118

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

GACO0521T045-1CRS005
5/21/2025 3:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-05 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Silver	ND		0.736	mg/kg	10	B5E2221	05/22/2025	05/23/2025	U
Zinc	ND		341	"	"	"	"	"	U

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CTEH
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 North Little Rock AR 72118

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

GACO0521T045-1CRS006

5/21/2025 3:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-06 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	2.89		0.0993	mg/L	1	B5E2231	05/22/2025	05/28/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E2235	05/22/2025	05/22/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	111 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E2239	05/22/2025	05/22/2025	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
Surrogate: 1,2-Dichloroethane-d4	109 %			70-130		"	"	"	
Surrogate: Toluene-d8	95.8 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	98.9 %			70-130		"	"	"	

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CTEH
 5120 North Shore Drive
 North Little Rock AR 72118

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

GACO0521T045-1CRS006

5/21/2025 3:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0778-06 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	6.78		0.499	meq/L	10	[CALC]	05/22/2025	05/27/2025	
Magnesium	2.41		0.823	"	"	"	"	"	
Sodium	4.78		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E2245	05/22/2025	05/22/2025	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
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
Pyrene	ND		0.020	"	"	"	"	"	U

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 North Little Rock AR 72118

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

GACO0521T045-1CRS006
5/21/2025 3:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0778-06 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	99.5 %			60-130		B5E2245	05/22/2025	05/22/2025	
Surrogate: Anthracene-d10	94.5 %			60-130		"	"	"	
Surrogate: Pyrene-d10	103 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %			60-130		"	"	"	

pH in Soil by 9045D

pH	7.91			pH Units	1	B5E2229	05/22/2025	05/27/2025	
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SAR by 20B Saturated Paste

SAR	2.23		0.0100	SAR	1	B5E2272	05/22/2025	05/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.76		0.00500	mmhos/cm	1	B5E2229	05/22/2025	05/27/2025	
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Table 915 metals by EPA 6020B

Arsenic	8.40		0.274	mg/kg	10	B5E2221	05/22/2025	05/23/2025	
Barium	89.7		77.4	"	"	"	"	"	
Cadmium	ND		0.359	"	"	"	"	"	U
Copper	ND		43.4	"	"	"	"	"	U
Lead	43.5		13.2	"	"	"	"	"	
Nickel	ND		24.6	"	"	"	"	"	U

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Kyle Lawrence
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 Project: PROJ-054017

GACO0521T045-1CRS006

5/21/2025 3:50:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0778-06 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Selenium	0.419		0.246	mg/kg	10	B5E2221	05/22/2025	05/23/2025	
Silver	ND		0.755	"	"	"	"	"	U
Zinc	ND		349	"	"	"	"	"	U

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GACO0521T045-1CRS007

5/21/2025 4:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-07 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.835		0.0996	mg/L	1	B5E2231	05/22/2025	05/28/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E2235	05/22/2025	05/22/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	102 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E2239	05/22/2025	05/22/2025	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
Surrogate: 1,2-Dichloroethane-d4	111 %			70-130		"	"	"	
Surrogate: Toluene-d8	95.4 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.2 %			70-130		"	"	"	

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

GACO0521T045-1CRS007

5/21/2025 4:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0778-07 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	3.38		0.499	meq/L	10	[CALC]	05/22/2025	05/27/2025	
Magnesium	1.90		0.823	"	"	"	"	"	
Sodium	1.64		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E2245	05/22/2025	05/22/2025	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
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
Pyrene	ND		0.020	"	"	"	"	"	U

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Kyle Lawrence
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 Project: PROJ-054017

GACO0521T045-1CRS007
5/21/2025 4:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0778-07 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	102 %			60-130		B5E2245	05/22/2025	05/22/2025	
Surrogate: Anthracene-d10	91.4 %			60-130		"	"	"	
Surrogate: Pyrene-d10	99.7 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.8 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.15			pH Units	1	B5E2229	05/22/2025	05/27/2025	
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SAR by 20B Saturated Paste

SAR	1.01		0.0100	SAR	1	B5E2272	05/22/2025	05/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.716		0.00500	mmhos/cm	1	B5E2229	05/22/2025	05/27/2025	
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Table 915 metals by EPA 6020B

Arsenic	20.4		0.268	mg/kg	10	B5E2221	05/22/2025	05/23/2025	
Barium	296		75.7	"	"	"	"	"	
Cadmium	0.710		0.351	"	"	"	"	"	
Copper	ND		42.4	"	"	"	"	"	U
Lead	ND		12.9	"	"	"	"	"	U
Nickel	ND		24.0	"	"	"	"	"	U

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GACO0521T045-1CRS007
5/21/2025 4:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0778-07 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Selenium	0.949		0.240	mg/kg	10	B5E2221	05/22/2025	05/23/2025	
Silver	ND		0.738	"	"	"	"	"	U
Zinc	ND		341	"	"	"	"	"	U

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GACO0521T045-1CRS008

5/21/2025 4:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-08 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.429		0.101	mg/L	1	B5E2231	05/22/2025	05/28/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E2235	05/22/2025	05/22/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	113 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E2239	05/22/2025	05/22/2025	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
Surrogate: 1,2-Dichloroethane-d4	109 %			70-130		"	"	"	
Surrogate: Toluene-d8	95.7 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	98.6 %			70-130		"	"	"	

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 Project Number: PROJ-054017
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GACO0521T045-1CRS008

5/21/2025 4:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0778-08 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	0.529		0.499	meq/L	10	[CALC]	05/22/2025	05/29/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.16		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E2246	05/22/2025	05/23/2025	U
2-Methylnaphthalene	0.003		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	0.014		0.005	"	"	"	"	"	
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	0.022		0.020	"	"	"	"	"	
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	0.021		0.020	"	"	"	"	"	

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

GACO0521T045-1CRS008
5/21/2025 4:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0778-08 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	101 %			60-130		B5E2246	05/22/2025	05/23/2025	
Surrogate: Anthracene-d10	100 %			60-130		"	"	"	
Surrogate: Pyrene-d10	103 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	95.2 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.28			pH Units	1	B5E2229	05/22/2025	05/27/2025	
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SAR by 20B Saturated Paste

SAR	1.94		0.0100	SAR	1	B5E2272	05/22/2025	05/29/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.728		0.00500	mmhos/cm	1	B5E2229	05/22/2025	05/27/2025	
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Table 915 metals by EPA 6020B

Arsenic	13.2		0.247	mg/kg	10	B5E2221	05/22/2025	05/23/2025	
Barium	119		69.8	"	"	"	"	"	
Cadmium	0.346		0.323	"	"	"	"	"	
Copper	ND		39.1	"	"	"	"	"	U
Lead	59.2		11.9	"	"	"	"	"	
Nickel	ND		22.1	"	"	"	"	"	U

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GACO0521T045-1CRS008
5/21/2025 4:30:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-08 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Selenium	0.558		0.221	mg/kg	10	B5E2221	05/22/2025	05/23/2025	
Silver	ND		0.681	"	"	"	"	"	U
Zinc	ND		315	"	"	"	"	"	U

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GACO0521T045-1CRS009

5/21/2025 2:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-09 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.949		0.101	mg/L	1	B5E2231	05/22/2025	05/28/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	30.2		25.0	mg/kg	1	B5E2235	05/22/2025	05/23/2025	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	131 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E2239	05/22/2025	05/23/2025	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
Surrogate: 1,2-Dichloroethane-d4	116 %			70-130		"	"	"	
Surrogate: Toluene-d8	96.3 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %			70-130		"	"	"	

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Kyle Lawrence
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 Project: PROJ-054017

GACO0521T045-1CRS009

5/21/2025 2:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0778-09 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	1.25		0.499	meq/L	10	[CALC]	05/23/2025	05/29/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	11.3		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E2245	05/22/2025	05/22/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	0.020		0.005	"	"	"	"	"	
Benzo (a) pyrene	0.027		0.020	"	"	"	"	"	
Benzo (b) fluoranthene	0.035		0.020	"	"	"	"	"	
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	0.027		0.020	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	0.029		0.020	"	"	"	"	"	
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	0.028		0.020	"	"	"	"	"	

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

GACO0521T045-1CRS009

5/21/2025 2:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0778-09 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	101 %			60-130		B5E2245	05/22/2025	05/22/2025	
Surrogate: Anthracene-d10	91.7 %			60-130		"	"	"	
Surrogate: Pyrene-d10	93.0 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.23			pH Units	1	B5E2378	05/23/2025	05/28/2025	
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SAR by 20B Saturated Paste

SAR	12.0	0.0100		SAR	1	B5E2376	05/23/2025	05/29/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.998	0.00500		mmhos/cm	1	B5E2378	05/23/2025	05/28/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.57	0.277		mg/kg	10	B5E2221	05/22/2025	05/23/2025	
Barium	78.6	78.4		"	"	"	"	"	
Cadmium	ND	0.363		"	"	"	"	"	U
Copper	ND	44.0		"	"	"	"	"	U
Lead	30.6	13.4		"	"	"	"	"	
Nickel	ND	24.9		"	"	"	"	"	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

GACO0521T045-1CRS009

5/21/2025 2:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-09 (Soil) Origins Laboratory									
Table 915 metals by EPA 6020B									
Selenium	0.295		0.249	mg/kg	10	B5E2221	05/22/2025	05/23/2025	
Silver	ND		0.765	"	"	"	"	"	U
Zinc	ND		354	"	"	"	"	"	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

GACO0521T045-1CRT004

5/21/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-10 (Water) Origins Laboratory									
VOC by EPA 8260D									
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L	1	B5E2251	05/22/2025	05/22/2025	U
1,1,1-Trichloroethane	ND		1.00	"	"	"	"	"	U
1,1,2,2-Tetrachloroethane	ND		1.00	"	"	"	"	"	U
1,1,2-Trichloroethane	ND		1.00	"	"	"	"	"	U
1,1-Dichloroethane	ND		1.00	"	"	"	"	"	U
1,1-Dichloroethene	ND		1.00	"	"	"	"	"	U
1,1-Dichloropropene	ND		1.00	"	"	"	"	"	U
1,2,3-Trichlorobenzene	ND		5.00	"	"	"	"	"	U
1,2,3-Trichloropropane	ND		5.00	"	"	"	"	"	U
1,2,4-Trichlorobenzene	ND		5.00	"	"	"	"	"	U
1,2,4-Trimethylbenzene	ND		1.00	"	"	"	"	"	U
1,2-Dibromo-3-chloropropane	ND		5.00	"	"	"	"	"	U
1,2-Dibromoethane (EDB)	ND		1.50	"	"	"	"	"	U
1,2-Dichlorobenzene	ND		1.00	"	"	"	"	"	U
1,2-Dichloroethane	ND		1.00	"	"	"	"	"	U
1,2-Dichloropropane	ND		1.00	"	"	"	"	"	U
1,3,5-Trimethylbenzene	ND		1.00	"	"	"	"	"	U
1,3-Dichlorobenzene	ND		1.00	"	"	"	"	"	U
1,3-Dichloropropane	ND		1.00	"	"	"	"	"	U

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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

GACO0521T045-1CRT004
5/21/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-10 (Water)									
Origins Laboratory									
VOC by EPA 8260D									
1,4-Dichlorobenzene	ND		1.00	ug/L	1	B5E2251	05/22/2025	05/22/2025	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



CTEH
 5120 North Shore Drive
 North Little Rock AR 72118

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

GACO0521T045-1CRT004

5/21/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-10 (Water) Origins Laboratory									
VOC by EPA 8260D									
Chloroform	ND		1.00	ug/L	1	B5E2251	05/22/2025	05/22/2025	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

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 North Little Rock AR 72118

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

GACO0521T045-1CRT004

5/21/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-10 (Water) Origins Laboratory									
VOC by EPA 8260D									
tert-Butylbenzene	ND		1.00	ug/L	1	B5E2251	05/22/2025	05/22/2025	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	103 %				70-130	"	"	"	
Surrogate: Toluene-d8	101 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.2 %				70-130	"	"	"	

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

GACO0521T045-1CRS010
5/21/2025 3:40:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0778-11 (Soil)
Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.357		0.101	mg/L	1	B5E2231	05/22/2025	05/28/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E2235	05/22/2025	05/23/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	112 %			50-150		"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E2239	05/22/2025	05/23/2025	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

Surrogate: 1,2-Dichloroethane-d4	112 %			70-130		"	"	"	
Surrogate: Toluene-d8	96.0 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %			70-130		"	"	"	

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

GACO0521T045-1CRS010
5/21/2025 3:40:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0778-11 (Soil)
Origins Laboratory

Metals by Saturated Paste by EPA 6010

Calcium	1.72		0.499	meq/L	10	[CALC]	05/22/2025	05/27/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	11.9		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E2246	05/22/2025	05/23/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	0.021		0.020	"	"	"	"	"	
Benzo (a) anthracene	0.082		0.005	"	"	"	"	"	
Benzo (a) pyrene	0.077		0.020	"	"	"	"	"	
Benzo (b) fluoranthene	0.076		0.020	"	"	"	"	"	
Benzo (k) fluoranthene	0.037		0.020	"	"	"	"	"	
Chrysene	0.092		0.020	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	0.129		0.020	"	"	"	"	"	
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	0.062		0.020	"	"	"	"	"	
Naphthalene	0.005		0.002	"	"	"	"	"	
Pyrene	0.140		0.020	"	"	"	"	"	

Surrogate: Fluorene-d10 101 % 60-130 " " "

Origins Laboratory

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Kyle Lawrence
 Project Number: PROJ-054017
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GACO0521T045-1CRS010
5/21/2025 3:40:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0778-11 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Surrogate: Anthracene-d10	100 %			60-130		B5E2246	05/22/2025	05/23/2025	
Surrogate: Pyrene-d10	102 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	91.9 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.01			pH Units	1	B5E2229	05/22/2025	05/27/2025	
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SAR by 20B Saturated Paste

SAR	10.8		0.0100	SAR	1	B5E2272	05/22/2025	05/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.249		0.00500	mmhos/cm	1	B5E2229	05/22/2025	05/27/2025	
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Table 915 metals by EPA 6020B

Arsenic	4.15		0.277	mg/kg	10	B5E2221	05/22/2025	05/23/2025	
Barium	91.8		78.4	"	"	"	"	"	
Cadmium	ND		0.363	"	"	"	"	"	U
Copper	ND		44.0	"	"	"	"	"	U
Lead	95.3		13.4	"	"	"	"	"	
Nickel	ND		24.9	"	"	"	"	"	U
Selenium	0.261		0.249	"	"	"	"	"	

Origins Laboratory

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 North Little Rock AR 72118

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

GACO0521T045-1CRS010
5/21/2025 3:40:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-11 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Silver	ND		0.765	mg/kg	10	B5E2221	05/22/2025	05/23/2025	U
Zinc	ND		354	"	"	"	"	"	U

Origins Laboratory

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CTEH
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 North Little Rock AR 72118

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

GACO0521T045-1CRS011
5/21/2025 3:55:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-12 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.535		0.101	mg/L	1	B5E2231	05/22/2025	05/28/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E2235	05/22/2025	05/23/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	127 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E2239	05/22/2025	05/23/2025	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
Surrogate: 1,2-Dichloroethane-d4	111 %			70-130		"	"	"	
Surrogate: Toluene-d8	95.7 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %			70-130		"	"	"	

Origins Laboratory

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 5120 North Shore Drive
 North Little Rock AR 72118

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

GACO0521T045-1CRS011

5/21/2025 3:55:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E0778-12 (Soil)
 Origins Laboratory**

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	05/22/2025	05/27/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E2246	05/22/2025	05/23/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	0.049		0.005	"	"	"	"	"	
Benzo (a) pyrene	0.045		0.020	"	"	"	"	"	
Benzo (b) fluoranthene	0.047		0.020	"	"	"	"	"	
Benzo (k) fluoranthene	0.025		0.020	"	"	"	"	"	
Chrysene	0.053		0.020	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	0.081		0.020	"	"	"	"	"	
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	0.035		0.020	"	"	"	"	"	
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	0.085		0.020	"	"	"	"	"	

Origins Laboratory

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CTEH
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 North Little Rock AR 72118

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

GACO0521T045-1CRS011
5/21/2025 3:55:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0778-12 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	101 %			60-130		B5E2246	05/22/2025	05/23/2025	
Surrogate: Anthracene-d10	99.7 %			60-130		"	"	"	
Surrogate: Pyrene-d10	102 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	95.8 %			60-130		"	"	"	

pH in Soil by 9045D

pH	7.91			pH Units	1	B5E2229	05/22/2025	05/27/2025	
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SAR by 20B Saturated Paste

SAR	0.341		0.0100	SAR	1	B5E2272	05/22/2025	05/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.451		0.00500	mmhos/cm	1	B5E2229	05/22/2025	05/27/2025	
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Table 915 metals by EPA 6020B

Arsenic	4.71		0.247	mg/kg	10	B5E2221	05/22/2025	05/23/2025	
Barium	90.9		70.0	"	"	"	"	"	
Cadmium	ND		0.324	"	"	"	"	"	U
Copper	ND		39.3	"	"	"	"	"	U
Lead	77.1		11.9	"	"	"	"	"	
Nickel	ND		22.2	"	"	"	"	"	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

GACO0521T045-1CRS011
5/21/2025 3:55:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-12 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Selenium	0.225		0.222	mg/kg	10	B5E2221	05/22/2025	05/23/2025	
Silver	ND		0.683	"	"	"	"	"	U
Zinc	ND		316	"	"	"	"	"	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

GACO0521T045-1CRS012
5/21/2025 4:10:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-13 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.12		0.0991	mg/L	1	B5E2231	05/22/2025	05/28/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E2235	05/22/2025	05/23/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	133 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E2239	05/22/2025	05/23/2025	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
Surrogate: 1,2-Dichloroethane-d4	113 %			70-130		"	"	"	
Surrogate: Toluene-d8	97.1 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %			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

GACO0521T045-1CRS012
5/21/2025 4:10:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0778-13 (Soil)
Origins Laboratory

Metals by Saturated Paste by EPA 6010

Calcium	13.6		0.499	meq/L	10	[CALC]	05/22/2025	05/27/2025	
Magnesium	6.51		0.823	"	"	"	"	"	
Sodium	1.31		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E2246	05/22/2025	05/23/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	0.021		0.005	"	"	"	"	"	
Benzo (a) pyrene	0.020		0.020	"	"	"	"	"	
Benzo (b) fluoranthene	0.029		0.020	"	"	"	"	"	
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	0.034		0.020	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	0.055		0.020	"	"	"	"	"	
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	0.051		0.020	"	"	"	"	"	

Origins Laboratory

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 North Little Rock AR 72118

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

GACO0521T045-1CRS012
5/21/2025 4:10:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0778-13 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	101 %			60-130		B5E2246	05/22/2025	05/23/2025	
Surrogate: Anthracene-d10	101 %			60-130		"	"	"	
Surrogate: Pyrene-d10	101 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	96.1 %			60-130		"	"	"	

pH in Soil by 9045D

pH	7.26			pH Units	1	B5E2230	05/22/2025	05/27/2025	
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SAR by 20B Saturated Paste

SAR	0.412		0.0100	SAR	1	B5E2272	05/22/2025	05/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.04		0.00500	mmhos/cm	1	B5E2230	05/22/2025	05/27/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.22		0.247	mg/kg	10	B5E2221	05/22/2025	05/23/2025	
Barium	78.6		69.9	"	"	"	"	"	
Cadmium	ND		0.324	"	"	"	"	"	U
Copper	ND		39.2	"	"	"	"	"	U
Lead	ND		11.9	"	"	"	"	"	U
Nickel	ND		22.2	"	"	"	"	"	U

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

GACO0521T045-1CRS012
5/21/2025 4:10:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-13 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Selenium	0.227		0.222	mg/kg	10	B5E2221	05/22/2025	05/23/2025	
Silver	ND		0.682	"	"	"	"	"	U
Zinc	ND		315	"	"	"	"	"	U

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

GACO0521T045-1CRS013

5/21/2025 3:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-14 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.885		0.0989	mg/L	1	B5E2231	05/22/2025	05/28/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E2235	05/22/2025	05/23/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	125 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E2239	05/22/2025	05/23/2025	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
Surrogate: 1,2-Dichloroethane-d4	118 %			70-130		"	"	"	
Surrogate: Toluene-d8	95.2 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %			70-130		"	"	"	

Origins Laboratory

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

GACO0521T045-1CRS013
5/21/2025 3:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0778-14 (Soil)
Origins Laboratory

Metals by Saturated Paste by EPA 6010

Calcium	1.12		0.499	meq/L	10	[CALC]	05/22/2025	05/27/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	6.82		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E2246	05/22/2025	05/23/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	0.015		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	0.046		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	0.036		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	0.033		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	0.025		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	0.032		0.020	"	"	"	"	"	U

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

GACO0521T045-1CRS013
5/21/2025 3:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0778-14 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	101 %			60-130		B5E2246	05/22/2025	05/23/2025	
Surrogate: Anthracene-d10	100 %			60-130		"	"	"	
Surrogate: Pyrene-d10	100 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	96.9 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.08			pH Units	1	B5E2230	05/22/2025	05/27/2025	
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SAR by 20B Saturated Paste

SAR	7.21		0.0100	SAR	1	B5E2272	05/22/2025	05/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.618		0.00500	mmhos/cm	1	B5E2230	05/22/2025	05/27/2025	
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Table 915 metals by EPA 6020B

Arsenic	5.78		0.276	mg/kg	10	B5E2221	05/22/2025	05/23/2025	
Barium	78.3		77.9	"	"	"	"	"	
Cadmium	ND		0.361	"	"	"	"	"	U
Copper	ND		43.7	"	"	"	"	"	U
Lead	28.2		13.3	"	"	"	"	"	
Nickel	ND		24.7	"	"	"	"	"	U

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

GACO0521T045-1CRS013
5/21/2025 3:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-14 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Selenium	0.302		0.247	mg/kg	10	B5E2221	05/22/2025	05/23/2025	
Silver	ND		0.760	"	"	"	"	"	U
Zinc	ND		352	"	"	"	"	"	U

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 Project: PROJ-054017

GACO0521T045-1CRC013
5/21/2025 3:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-15 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.941		0.101	mg/L	1	B5E2231	05/22/2025	05/28/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E2235	05/22/2025	05/23/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: <i>o</i> -Terphenyl	134 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E2239	05/22/2025	05/23/2025	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
Surrogate: 1,2-Dichloroethane-d4	117 %			70-130		"	"	"	
Surrogate: Toluene-d8	95.6 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %			70-130		"	"	"	

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CTEH
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 North Little Rock AR 72118

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

GACO0521T045-1CRC013

5/21/2025 3:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-15 (Soil) Origins Laboratory									
Metals by Saturated Paste by EPA 6010									
Calcium	0.841		0.499	meq/L	10	[CALC]	05/22/2025	05/29/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.87		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E2246	05/22/2025	05/23/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	0.014		0.005	"	"	"	"	"	
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	0.034		0.020	"	"	"	"	"	
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	0.026		0.020	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	0.028		0.020	"	"	"	"	"	
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	0.027		0.020	"	"	"	"	"	

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

GACO0521T045-1CRC013
5/21/2025 3:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0778-15 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	102 %			60-130		B5E2246	05/22/2025	05/23/2025	
Surrogate: Anthracene-d10	101 %			60-130		"	"	"	
Surrogate: Pyrene-d10	100 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.3 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.12			pH Units	1	B5E2230	05/22/2025	05/27/2025	
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SAR by 20B Saturated Paste

SAR	4.55	0.0100		SAR	1	B5E2272	05/22/2025	05/29/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.579		0.00500	mmhos/cm	1	B5E2230	05/22/2025	05/27/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.59	0.282		mg/kg	10	B5E2221	05/22/2025	05/23/2025	
Barium	83.3	79.9		"	"	"	"	"	
Cadmium	ND	0.370		"	"	"	"	"	U
Copper	ND	44.8		"	"	"	"	"	U
Lead	25.6	13.6		"	"	"	"	"	
Nickel	ND	25.3		"	"	"	"	"	U

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

GACO0521T045-1CRC013
5/21/2025 3:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-15 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Selenium	0.275		0.253	mg/kg	10	B5E2221	05/22/2025	05/23/2025	
Silver	ND		0.779	"	"	"	"	"	U
Zinc	ND		360	"	"	"	"	"	U

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CTEH
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 North Little Rock AR 72118

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

GACO0521T045-1CRT005

5/21/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-16 (Water) Origins Laboratory									
VOC by EPA 8260D									
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L	1	B5E2251	05/22/2025	05/22/2025	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

GACO0521T045-1CRT005
5/21/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-16 (Water)									
Origins Laboratory									
VOC by EPA 8260D									
1,4-Dichlorobenzene	ND		1.00	ug/L	1	B5E2251	05/22/2025	05/22/2025	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



CTEH
 5120 North Shore Drive
 North Little Rock AR 72118

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

GACO0521T045-1CRT005

5/21/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-16 (Water) Origins Laboratory									
VOC by EPA 8260D									
Chloroform	ND		1.00	ug/L	1	B5E2251	05/22/2025	05/22/2025	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

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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

GACO0521T045-1CRT005

5/21/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0778-16 (Water) Origins Laboratory									
VOC by EPA 8260D									
tert-Butylbenzene	ND		1.00	ug/L	1	B5E2251	05/22/2025	05/22/2025	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	104 %				70-130	"	"	"	
Surrogate: Toluene-d8	101 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.1 %				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

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 B5E2231 - DTPA Sorbitol Preparation

Blank (B5E2231-BLK1)

Prepared: 05/22/2025 Analyzed: 05/28/2025

Boron	ND	0.100	mg/L							U
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Duplicate (B5E2231-DUP1)

Source: E5E0778-09

Prepared: 05/22/2025 Analyzed: 05/28/2025

Boron	0.911	0.0997	mg/L		0.949			4.09	50	
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Batch B5E2272 - Saturated Paste Metals

Blank (B5E2272-BLK1)

Prepared: 05/22/2025 Analyzed: 05/27/2025

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 (B5E2272-DUP1)

Source: E5E0782-01

Prepared: 05/22/2025 Analyzed: 05/27/2025

Calcium PPM	47.5	10.0	mg/L		50.6			6.16	50	
SAR	ND	0.0100	SAR		ND				200	U
Magnesium PPM	5.69	10.0	mg/L		6.26			9.54	50	U
Sodium PPM	2.19	10.0	"		2.30			4.90	50	U

Batch B5E2376 - Saturated Paste Metals

Blank (B5E2376-BLK1)

Prepared: 05/23/2025 Analyzed: 05/29/2025

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

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 B5E2376 - Saturated Paste Metals

Duplicate (B5E2376-DUP1)

Source: E5E0778-09

Prepared: 05/23/2025 Analyzed: 05/29/2025

SAR	ND	0.0100	SAR		12.0			200		U
Calcium PPM	14.5	10.0	mg/L		25.0			53.0	50	QR-DUP
Magnesium PPM	3.41	10.0	"		6.29			59.4	50	QR-DUP , U
Sodium PPM	186	10.0	"		259			33.0	50	

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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 B5E2245 - EPA 3580

Blank (B5E2245-BLK1)

Prepared: 05/22/2025 Analyzed: 05/22/2025

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		100	60-130			
Surrogate: Anthracene-d10	190		"	200		93.2	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.3	60-130			

LCS (B5E2245-BS1)

Prepared: 05/22/2025 Analyzed: 05/22/2025

1-Methylnaphthalene	0.176	0.002	mg/kg	0.200		87.8	70-130			
2-Methylnaphthalene	0.176	0.002	"	0.200		88.0	70-130			
Acenaphthene	0.194	0.020	"	0.200		97.0	70-130			
Anthracene	0.218	0.020	"	0.200		109	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
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Batch B5E2245 - EPA 3580

LCS (B5E2245-BS1)

Prepared: 05/22/2025 Analyzed: 05/22/2025

Benzo (a) anthracene	0.225	0.005	mg/kg	0.200		112	70-130			
Benzo (a) pyrene	0.206	0.020	"	0.200		103	70-130			
Benzo (b) fluoranthene	0.208	0.020	"	0.200		104	70-130			
Benzo (g,h,i) perylene	0.184	0.020	"	0.200		91.9	70-130			
Benzo (k) fluoranthene	0.189	0.020	"	0.200		94.5	70-130			
Chrysene	0.202	0.020	"	0.200		101	70-130			
Dibenz (a,h) anthracene	0.212	0.020	"	0.200		106	70-130			
Fluoranthene	0.211	0.020	"	0.200		106	70-130			
Fluorene	0.193	0.020	"	0.200		96.4	70-130			
Indeno (1,2,3-cd) pyrene	0.239	0.020	"	0.200		120	70-130			
Naphthalene	0.196	0.002	"	0.200		97.9	70-130			
Phenanthrene	0.188	0.020	"	0.200		94.0	70-130			
Pyrene	0.207	0.020	"	0.200		104	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		97.5	60-130			
Surrogate: Pyrene-d10	200		"	200		98.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike (B5E2245-MS1)

Source: E5E0778-09

Prepared: 05/22/2025 Analyzed: 05/22/2025

1-Methylnaphthalene	0.179	0.002	mg/kg	0.200	0.0006	89.4	70-130			
2-Methylnaphthalene	0.179	0.002	"	0.200	0.001	89.1	70-130			
Acenaphthene	0.199	0.020	"	0.200	0.0007	99.1	70-130			
Anthracene	0.195	0.020	"	0.200	0.005	95.1	70-130			
Benzo (a) anthracene	0.247	0.005	"	0.200	0.020	113	70-130			
Benzo (a) pyrene	0.241	0.020	"	0.200	0.027	107	70-130			
Benzo (b) fluoranthene	0.263	0.020	"	0.200	0.035	114	70-130			
Benzo (g,h,i) perylene	0.201	0.020	"	0.200	0.021	90.2	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 B5E2245 - EPA 3580

Matrix Spike (B5E2245-MS1)

Source: E5E0778-09

Prepared: 05/22/2025 Analyzed: 05/22/2025

Benzo (k) fluoranthene	0.244	0.020	mg/kg	0.200	0.014	115	70-130			
Chrysene	0.246	0.020	"	0.200	0.027	110	70-130			
Dibenz (a,h) anthracene	0.219	0.020	"	0.200	0.004	108	70-130			
Fluoranthene	0.238	0.020	"	0.200	0.029	105	70-130			
Fluorene	0.195	0.020	"	0.200	0.0008	97.2	70-130			
Indeno (1,2,3-cd) pyrene	0.221	0.020	"	0.200	0.019	101	70-130			
Naphthalene	0.198	0.002	"	0.200	ND	98.9	70-130			
Phenanthrene	0.210	0.020	"	0.200	0.010	100	70-130			
Pyrene	0.238	0.020	"	0.200	0.028	105	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.9	60-130			
Surrogate: Anthracene-d10	180		"	200		90.4	60-130			
Surrogate: Pyrene-d10	190		"	200		96.8	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

Matrix Spike Dup (B5E2245-MSD1)

Source: E5E0778-09

Prepared: 05/22/2025 Analyzed: 05/22/2025

1-Methylnaphthalene	0.184	0.002	mg/kg	0.200	0.0006	91.8	70-130	2.64	20	
2-Methylnaphthalene	0.184	0.002	"	0.200	0.001	91.4	70-130	2.50	20	
Acenaphthene	0.204	0.020	"	0.200	0.0007	101	70-130	2.37	20	
Anthracene	0.196	0.020	"	0.200	0.005	95.4	70-130	0.345	20	
Benzo (a) anthracene	0.269	0.005	"	0.200	0.020	124	70-130	8.52	20	
Benzo (a) pyrene	0.255	0.020	"	0.200	0.027	114	70-130	5.51	20	
Benzo (b) fluoranthene	0.252	0.020	"	0.200	0.035	108	70-130	4.47	20	
Benzo (g,h,i) perylene	0.207	0.020	"	0.200	0.021	93.4	70-130	3.14	20	
Benzo (k) fluoranthene	0.240	0.020	"	0.200	0.014	113	70-130	1.94	20	
Chrysene	0.264	0.020	"	0.200	0.027	119	70-130	7.15	20	
Dibenz (a,h) anthracene	0.227	0.020	"	0.200	0.004	112	70-130	3.52	20	
Fluoranthene	0.259	0.020	"	0.200	0.029	115	70-130	8.12	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

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 B5E2245 - EPA 3580

Matrix Spike Dup (B5E2245-MSD1)

Source: E5E0778-09

Prepared: 05/22/2025 Analyzed: 05/22/2025

Fluorene	0.197	0.020	mg/kg	0.200	0.0008	97.9	70-130	0.717	20	
Indeno (1,2,3-cd) pyrene	0.232	0.020	"	0.200	0.019	107	70-130	4.75	20	
Naphthalene	0.200	0.002	"	0.200	ND	100	70-130	1.32	20	
Phenanthrene	0.218	0.020	"	0.200	0.010	104	70-130	3.69	20	
Pyrene	0.253	0.020	"	0.200	0.028	112	70-130	6.19	20	
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	180		"	200		90.3	60-130			
Surrogate: Pyrene-d10	200		"	200		97.8	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

Batch B5E2246 - EPA 3580

Blank (B5E2246-BLK1)

Prepared: 05/22/2025 Analyzed: 05/22/2025

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

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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 B5E2246 - EPA 3580

Blank (B5E2246-BLK1)

Prepared: 05/22/2025 Analyzed: 05/22/2025

Naphthalene	ND	0.002	mg/kg							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		98.7	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		95.7	60-130			

LCS (B5E2246-BS1)

Prepared: 05/22/2025 Analyzed: 05/22/2025

1-Methylnaphthalene	0.207	0.002	mg/kg	0.200		104	70-130			
2-Methylnaphthalene	0.208	0.002	"	0.200		104	70-130			
Acenaphthene	0.213	0.020	"	0.200		106	70-130			
Anthracene	0.199	0.020	"	0.200		99.6	70-130			
Benzo (a) anthracene	0.212	0.005	"	0.200		106	70-130			
Benzo (a) pyrene	0.193	0.020	"	0.200		96.4	70-130			
Benzo (b) fluoranthene	0.200	0.020	"	0.200		100	70-130			
Benzo (g,h,i) perylene	0.181	0.020	"	0.200		90.3	70-130			
Benzo (k) fluoranthene	0.206	0.020	"	0.200		103	70-130			
Chrysene	0.203	0.020	"	0.200		101	70-130			
Dibenz (a,h) anthracene	0.220	0.020	"	0.200		110	70-130			
Fluoranthene	0.206	0.020	"	0.200		103	70-130			
Fluorene	0.210	0.020	"	0.200		105	70-130			
Indeno (1,2,3-cd) pyrene	0.208	0.020	"	0.200		104	70-130			
Naphthalene	0.209	0.002	"	0.200		105	70-130			
Phenanthrene	0.207	0.020	"	0.200		104	70-130			
Pyrene	0.214	0.020	"	0.200		107	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			

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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 B5E2246 - EPA 3580

LCS (B5E2246-BS1)

Prepared: 05/22/2025 Analyzed: 05/22/2025

Surrogate: Anthracene-d10	200		ug/kg	200		97.9	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.1	60-130			

Matrix Spike (B5E2246-MS1)

Source: E5E0778-11

Prepared: 05/22/2025 Analyzed: 05/22/2025

1-Methylnaphthalene	0.216	0.002	mg/kg	0.200	0.0006	108	70-130			
2-Methylnaphthalene	0.217	0.002	"	0.200	0.002	108	70-130			
Acenaphthene	0.219	0.020	"	0.200	0.003	108	70-130			
Anthracene	0.230	0.020	"	0.200	0.021	104	70-130			
Benzo (a) anthracene	0.309	0.005	"	0.200	0.082	113	70-130			
Benzo (a) pyrene	0.297	0.020	"	0.200	0.077	110	70-130			
Benzo (b) fluoranthene	0.289	0.020	"	0.200	0.076	106	70-130			
Benzo (g,h,i) perylene	0.250	0.020	"	0.200	0.061	94.5	70-130			
Benzo (k) fluoranthene	0.242	0.020	"	0.200	0.037	102	70-130			
Chrysene	0.311	0.020	"	0.200	0.092	109	70-130			
Dibenz (a,h) anthracene	0.233	0.020	"	0.200	0.013	110	70-130			
Fluoranthene	0.349	0.020	"	0.200	0.129	110	70-130			
Fluorene	0.219	0.020	"	0.200	0.002	108	70-130			
Indeno (1,2,3-cd) pyrene	0.258	0.020	"	0.200	0.062	98.1	70-130			
Naphthalene	0.217	0.002	"	0.200	0.005	106	70-130			
Phenanthrene	0.240	0.020	"	0.200	0.032	104	70-130			
Pyrene	0.367	0.020	"	0.200	0.140	113	70-130			

Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		99.4	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		93.7	60-130			

Matrix Spike Dup (B5E2246-MSD1)

Source: E5E0778-11

Prepared: 05/22/2025 Analyzed: 05/23/2025

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

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 B5E2246 - EPA 3580										
1-Methylnaphthalene	0.217	0.002	mg/kg	0.200	0.0006	108	70-130	0.482	20	
2-Methylnaphthalene	0.218	0.002	"	0.200	0.002	108	70-130	0.315	20	
Acenaphthene	0.223	0.020	"	0.200	0.003	110	70-130	1.88	20	
Anthracene	0.231	0.020	"	0.200	0.021	105	70-130	0.670	20	
Benzo (a) anthracene	0.299	0.005	"	0.200	0.082	109	70-130	3.09	20	
Benzo (a) pyrene	0.278	0.020	"	0.200	0.077	101	70-130	6.63	20	
Benzo (b) fluoranthene	0.271	0.020	"	0.200	0.076	97.5	70-130	6.32	20	
Benzo (g,h,i) perylene	0.242	0.020	"	0.200	0.061	90.4	70-130	3.31	20	
Benzo (k) fluoranthene	0.232	0.020	"	0.200	0.037	97.5	70-130	3.89	20	
Chrysene	0.297	0.020	"	0.200	0.092	102	70-130	4.70	20	
Dibenz (a,h) anthracene	0.238	0.020	"	0.200	0.013	113	70-130	2.45	20	
Fluoranthene	0.329	0.020	"	0.200	0.129	99.6	70-130	5.95	20	
Fluorene	0.220	0.020	"	0.200	0.002	109	70-130	0.492	20	
Indeno (1,2,3-cd) pyrene	0.265	0.020	"	0.200	0.062	102	70-130	2.92	20	
Naphthalene	0.218	0.002	"	0.200	0.005	106	70-130	0.185	20	
Phenanthrene	0.239	0.020	"	0.200	0.032	103	70-130	0.516	20	
Pyrene	0.348	0.020	"	0.200	0.140	104	70-130	5.39	20	
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		99.7	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.3	60-130			

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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

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 B5E2235 - EPA 3550B

Blank (B5E2235-BLK1)

Prepared: 05/22/2025 Analyzed: 05/22/2025

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	29		"	24.9		115	50-150			

LCS (B5E2235-BS1)

Prepared: 05/22/2025 Analyzed: 05/22/2025

Diesel (C10-C28)	879	50.0	mg/kg	1000		87.9	70-130			
Residual Range Organics (C28-C40)	828	200	"	1000		82.8	70-130			
Surrogate: o-Terphenyl	61		"	49.8		122	50-150			

Matrix Spike (B5E2235-MS1)

Source: E5E0778-09

Prepared: 05/22/2025 Analyzed: 05/22/2025

Diesel (C10-C28)	775	50.0	mg/kg	1000	ND	77.5	70-130			
Residual Range Organics (C28-C40)	791	200	"	1000	64.0	72.7	70-130			
Surrogate: o-Terphenyl	50		"	49.8		100	50-150			

Matrix Spike Dup (B5E2235-MSD1)

Source: E5E0778-09

Prepared: 05/22/2025 Analyzed: 05/22/2025

Diesel (C10-C28)	867	50.0	mg/kg	1000	ND	86.7	70-130	11.2	35	
Residual Range Organics (C28-C40)	875	200	"	1000	64.0	81.1	70-130	10.1	35	
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

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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

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 B5E2221 - EPA 3050B

Blank (B5E2221-BLK1)

Prepared: 05/22/2025 Analyzed: 05/23/2025

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 (B5E2221-BS1)

Prepared: 05/22/2025 Analyzed: 05/23/2025

Arsenic	5.30	0.290	mg/kg	5.00		106	80-120			
Barium	555	82.0	"	500		111	80-120			
Cadmium	5.48	0.380	"	5.00		110	80-120			
Copper	55.2	46.0	"	50.0		110	80-120			
Lead	5.13	14.0	"	5.00		103	80-120			U
Nickel	5.85	26.0	"	5.00		117	80-120			U
Selenium	5.10	0.260	"	5.00		102	80-120			
Silver	5.72	0.800	"	5.00		114	80-120			
Zinc	52.0	370	"	50.0		104	80-120			U

Matrix Spike (B5E2221-MS1)

Source: E5E0778-09

Prepared: 05/22/2025 Analyzed: 05/23/2025

Arsenic	9.73	0.256	mg/kg	4.42	3.57	140	75-125			QM-07
Barium	532	72.4	"	442	78.6	103	75-125			
Cadmium	4.99	0.336	"	4.42	0.271	107	75-125			
Copper	59.2	40.6	"	44.2	10.8	110	75-125			
Lead	42.7	12.4	"	4.42	30.6	275	75-125			QM-07

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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

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 B5E2221 - EPA 3050B

Matrix Spike (B5E2221-MS1)

Source: E5E0778-09

Prepared: 05/22/2025 Analyzed: 05/23/2025

Nickel	11.6	23.0	mg/kg	4.42	7.40	95.0	75-125			U
Selenium	4.80	0.230	"	4.42	0.295	102	75-125			
Silver	4.89	0.707	"	4.42	0.0363	110	75-125			
Zinc	135	327	"	44.2	90.9	98.9	75-125			U

Matrix Spike Dup (B5E2221-MSD1)

Source: E5E0778-09

Prepared: 05/22/2025 Analyzed: 05/23/2025

Arsenic	8.06	0.260	mg/kg	4.48	3.57	100	75-125	18.7	20	
Barium	547	73.5	"	448	78.6	105	75-125	2.73	20	
Cadmium	5.10	0.340	"	4.48	0.271	108	75-125	2.13	20	
Copper	59.0	41.2	"	44.8	10.8	108	75-125	0.327	20	
Lead	48.3	12.5	"	4.48	30.6	395	75-125	12.2	20	QM-07
Nickel	11.2	23.3	"	4.48	7.40	84.4	75-125	3.66	20	U
Selenium	4.86	0.233	"	4.48	0.295	102	75-125	1.33	20	
Silver	5.08	0.717	"	4.48	0.0363	113	75-125	3.81	20	
Zinc	134	331	"	44.8	90.9	96.2	75-125	0.420	20	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

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 B5E2229 - Saturated Paste pH/EC

Blank (B5E2229-BLK1)

Prepared: 05/22/2025 Analyzed: 05/27/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B5E2229-DUP1)

Source: E5E0772-14

Prepared: 05/22/2025 Analyzed: 05/27/2025

pH	8.22		pH Units		8.14		0.978		25	
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Specific Conductance (EC)	0.572	0.00500	mmhos/cm		0.524		8.76		25	
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Batch B5E2230 - Saturated Paste pH/EC

Blank (B5E2230-BLK1)

Prepared: 05/22/2025 Analyzed: 05/27/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B5E2230-DUP1)

Source: E5E0778-13

Prepared: 05/22/2025 Analyzed: 05/27/2025

Specific Conductance (EC)	3.01	0.00500	mmhos/cm		3.04		0.872		25	
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pH	7.47		pH Units		7.26		2.85		25	
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Batch B5E2378 - Saturated Paste pH/EC

Blank (B5E2378-BLK1)

Prepared: 05/23/2025 Analyzed: 05/28/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B5E2378-DUP1)

Source: E5E0778-09

Prepared: 05/23/2025 Analyzed: 05/28/2025

Specific Conductance (EC)	0.828	0.00500	mmhos/cm		0.998		18.6		25	
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pH	8.29		pH Units		8.23		0.726		25	
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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 B5E2239 - EPA 5030 (soil)

Blank (B5E2239-BLK1)

Prepared: 05/22/2025 Analyzed: 05/22/2025

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		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.9	70-130			

LCS (B5E2239-BS1)

Prepared: 05/22/2025 Analyzed: 05/22/2025

1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100		106	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Benzene	0.0970	0.00200	"	0.100		97.0	70-130			
Ethylbenzene	0.0996	0.00200	"	0.100		99.6	70-130			
Naphthalene	0.105	0.00380	"	0.100		105	70-130			
Toluene	0.108	0.00200	"	0.100		108	70-130			
o-Xylene	0.100	0.00200	"	0.100		100	70-130			
m,p-Xylene	0.199	0.00400	"	0.200		99.6	70-130			

Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.7	70-130			

Matrix Spike (B5E2239-MS1)

Source: E5E0778-09

Prepared: 05/22/2025 Analyzed: 05/22/2025

1,2,4-Trimethylbenzene	0.0872	0.00200	mg/kg	0.100	ND	87.2	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 B5E2239 - EPA 5030 (soil)

Matrix Spike (B5E2239-MS1)

Source: E5E0778-09

Prepared: 05/22/2025 Analyzed: 05/22/2025

1,3,5-Trimethylbenzene	0.0881	0.00200	mg/kg	0.100	ND	88.1	70-130			
Benzene	0.0844	0.00200	"	0.100	ND	84.4	70-130			
Ethylbenzene	0.0907	0.00200	"	0.100	ND	90.7	70-130			
Naphthalene	0.0703	0.00380	"	0.100	ND	70.3	70-130			
Toluene	0.0832	0.00200	"	0.100	ND	83.2	70-130			
o-Xylene	0.0910	0.00200	"	0.100	ND	91.0	70-130			
m,p-Xylene	0.181	0.00400	"	0.200	ND	90.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Matrix Spike Dup (B5E2239-MSD1)

Source: E5E0778-09

Prepared: 05/22/2025 Analyzed: 05/22/2025

1,2,4-Trimethylbenzene	0.0860	0.00200	mg/kg	0.100	ND	86.0	70-130	1.32	20	
1,3,5-Trimethylbenzene	0.0860	0.00200	"	0.100	ND	86.0	70-130	2.41	20	
Benzene	0.0861	0.00200	"	0.100	ND	86.1	70-130	2.02	20	
Ethylbenzene	0.0900	0.00200	"	0.100	ND	90.0	70-130	0.775	20	
Naphthalene	0.0760	0.00380	"	0.100	ND	76.0	70-130	7.74	20	
Toluene	0.0913	0.00200	"	0.100	ND	91.3	70-130	9.35	20	
o-Xylene	0.0909	0.00200	"	0.100	ND	90.9	70-130	0.132	20	
m,p-Xylene	0.181	0.00400	"	0.200	ND	90.3	70-130	0.320	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Batch B5E2251 - EPA 5030B (Water)

Blank (B5E2251-BLK1)

Prepared: 05/22/2025 Analyzed: 05/22/2025

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

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 B5E2251 - EPA 5030B (Water)

Blank (B5E2251-BLK1)

Prepared: 05/22/2025 Analyzed: 05/22/2025

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 B5E2251 - EPA 5030B (Water)

Blank (B5E2251-BLK1)

Prepared: 05/22/2025 Analyzed: 05/22/2025

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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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 B5E2251 - EPA 5030B (Water)

Blank (B5E2251-BLK1)

Prepared: 05/22/2025 Analyzed: 05/22/2025

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		99.6	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.8	70-130			

LCS (B5E2251-BS1)

Prepared: 05/22/2025 Analyzed: 05/22/2025

1,1,1,2-Tetrachloroethane	58.4	1.00	ug/L	50.0		117	70-130			
1,1,1-Trichloroethane	55.8	1.00	"	50.0		112	70-130			
1,1,2,2-Tetrachloroethane	54.7	1.00	"	50.0		109	70-130			
1,1,2-Trichloroethane	51.5	1.00	"	50.0		103	70-130			
1,1-Dichloroethane	53.6	1.00	"	50.0		107	70-130			
1,1-Dichloroethene	56.0	1.00	"	50.0		112	70-130			
1,1-Dichloropropene	54.2	1.00	"	50.0		108	70-130			
1,2,3-Trichlorobenzene	51.3	5.00	"	50.0		103	70-130			
1,2,3-Trichloropropane	49.5	5.00	"	50.0		99.0	70-130			
1,2,4-Trichlorobenzene	52.8	5.00	"	50.0		106	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager



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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E2251 - EPA 5030B (Water)

LCS (B5E2251-BS1)

Prepared: 05/22/2025 Analyzed: 05/22/2025

1,2,4-Trimethylbenzene	58.1	1.00	ug/L	50.0	116	70-130
1,2-Dibromo-3-chloropropane	47.0	5.00	"	50.0	94.1	70-130
1,2-Dibromoethane (EDB)	52.3	1.50	"	50.0	105	70-130
1,2-Dichlorobenzene	54.6	1.00	"	50.0	109	70-130
1,2-Dichloroethane	52.1	1.00	"	50.0	104	70-130
1,2-Dichloropropane	53.3	1.00	"	50.0	107	70-130
1,3,5-Trimethylbenzene	58.8	1.00	"	50.0	118	70-130
1,3-Dichlorobenzene	56.0	1.00	"	50.0	112	70-130
1,3-Dichloropropane	51.8	1.00	"	50.0	104	70-130
1,4-Dichlorobenzene	56.0	1.00	"	50.0	112	70-130
2,2-Dichloropropane	57.4	1.00	"	50.0	115	70-130
2-Butanone	258	5.00	"	250	103	70-130
2-Chlorotoluene	57.0	1.00	"	50.0	114	70-130
2-Hexanone	256	6.00	"	250	103	70-130
4-Chlorotoluene	57.3	1.00	"	50.0	115	70-130
4-Isopropyltoluene	59.0	1.00	"	50.0	118	70-130
4-Methyl-2-pentanone	252	5.00	"	250	101	70-130
Acetone	263	8.00	"	250	105	70-130
Benzene	53.1	1.00	"	50.0	106	70-130
Bromobenzene	56.4	1.00	"	50.0	113	70-130
Bromochloromethane	54.0	1.00	"	50.0	108	70-130
Bromodichloromethane	54.6	1.00	"	50.0	109	70-130
Bromoform	52.4	1.00	"	50.0	105	70-130
Bromomethane	52.8	1.00	"	50.0	106	70-130
Carbon disulfide	55.2	5.00	"	50.0	110	70-130
Carbon tetrachloride	55.4	1.00	"	50.0	111	70-130

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Jen Pellegrini For Jordan A. Bynon, Project Manager



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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E2251 - EPA 5030B (Water)

LCS (B5E2251-BS1)

Prepared: 05/22/2025 Analyzed: 05/22/2025

Chlorobenzene	53.6	1.00	ug/L	50.0		107	70-130			
Chloroethane	49.8	1.00	"	50.0		99.7	70-130			
Chloroform	53.9	1.00	"	50.0		108	70-130			
Chloromethane	51.9	1.00	"	50.0		104	70-130			
cis-1,2-Dichloroethene	53.8	1.00	"	50.0		108	70-130			
cis-1,3-Dichloropropene	53.6	1.00	"	50.0		107	70-130			
Dibromochloromethane	54.6	1.00	"	50.0		109	70-130			
Dibromomethane	53.8	1.00	"	50.0		108	70-130			
Ethylbenzene	59.1	1.00	"	50.0		118	70-130			
Hexachlorobutadiene	56.8	5.00	"	50.0		114	70-130			
Iodomethane	55.5	10.0	"	50.0		111	70-130			
Isopropylbenzene	58.9	1.00	"	50.0		118	70-130			
m,p-Xylene	120	2.00	"	100		120	70-130			
Methylene Chloride	52.3	15.0	"	50.0		105	70-130			
Methyl tert-Butyl Ether	52.0	1.00	"	50.0		104	70-130			
Naphthalene	49.3	4.00	"	50.0		98.5	70-130			
n-Butylbenzene	59.9	1.00	"	50.0		120	70-130			
n-Propylbenzene	59.2	1.00	"	50.0		118	70-130			
o-Xylene	57.9	1.00	"	50.0		116	70-130			
sec-Butylbenzene	59.0	1.00	"	50.0		118	70-130			
Styrene	58.7	1.00	"	50.0		117	70-130			
tert-Butylbenzene	58.7	1.00	"	50.0		117	70-130			
Tetrachloroethene	54.9	1.00	"	50.0		110	70-130			
Toluene	52.7	1.00	"	50.0		105	70-130			
trans-1,2-Dichloroethene	54.4	1.00	"	50.0		109	70-130			
trans-1,3-Dichloropropene	54.2	1.00	"	50.0		108	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 B5E2251 - EPA 5030B (Water)

LCS (B5E2251-BS1)

Prepared: 05/22/2025 Analyzed: 05/22/2025

Trichloroethene	54.6	1.00	ug/L	50.0		109	70-130			
Trichlorofluoromethane	53.9	1.00	"	50.0		108	70-130			
Vinyl chloride	53.0	1.00	"	50.0		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

Matrix Spike (B5E2251-MS1)

Source: E5E0761-02

Prepared: 05/22/2025 Analyzed: 05/22/2025

1,1,1,2-Tetrachloroethane	60.0	1.00	ug/L	50.0	ND	120	70-130			
1,1,1-Trichloroethane	63.0	1.00	"	50.0	6.78	112	70-130			
1,1,2,2-Tetrachloroethane	54.6	1.00	"	50.0	ND	109	70-130			
1,1,2-Trichloroethane	53.3	1.00	"	50.0	1.30	104	70-130			
1,1-Dichloroethane	106	1.00	"	50.0	56.5	99.0	70-130			
1,1-Dichloroethene	2010	1.00	"	50.0	2120	NR	70-130			QM-07
1,1-Dichloropropene	55.6	1.00	"	50.0	ND	111	70-130			
1,2,3-Trichlorobenzene	54.3	5.00	"	50.0	ND	109	70-130			
1,2,3-Trichloropropane	53.5	5.00	"	50.0	ND	107	70-130			
1,2,4-Trichlorobenzene	55.9	5.00	"	50.0	ND	112	70-130			
1,2,4-Trimethylbenzene	60.8	1.00	"	50.0	ND	122	70-130			
1,2-Dibromo-3-chloropropane	46.0	5.00	"	50.0	ND	92.1	70-130			
1,2-Dibromoethane (EDB)	52.4	1.50	"	50.0	ND	105	70-130			
1,2-Dichlorobenzene	56.7	1.00	"	50.0	ND	113	70-130			
1,2-Dichloroethane	52.8	1.00	"	50.0	ND	106	70-130			
1,2-Dichloropropane	55.2	1.00	"	50.0	ND	110	70-130			
1,3,5-Trimethylbenzene	62.0	1.00	"	50.0	ND	124	70-130			
1,3-Dichlorobenzene	58.3	1.00	"	50.0	ND	117	70-130			
1,3-Dichloropropane	52.5	1.00	"	50.0	ND	105	70-130			

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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

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 B5E2251 - EPA 5030B (Water)

Matrix Spike (B5E2251-MS1)

Source: E5E0761-02

Prepared: 05/22/2025 Analyzed: 05/22/2025

1,4-Dichlorobenzene	57.9	1.00	ug/L	50.0	ND	116	70-130			
2,2-Dichloropropane	57.7	1.00	"	50.0	ND	115	70-130			
2-Butanone	247	5.00	"	250	ND	98.8	70-130			
2-Chlorotoluene	61.9	1.00	"	50.0	ND	124	70-130			
2-Hexanone	251	6.00	"	250	ND	101	70-130			
4-Chlorotoluene	59.7	1.00	"	50.0	ND	119	70-130			
4-Isopropyltoluene	62.7	1.00	"	50.0	ND	125	70-130			
4-Methyl-2-pentanone	250	5.00	"	250	ND	100	70-130			
Acetone	256	8.00	"	250	ND	102	70-130			
Benzene	54.6	1.00	"	50.0	ND	109	70-130			
Bromobenzene	57.1	1.00	"	50.0	ND	114	70-130			
Bromochloromethane	53.5	1.00	"	50.0	ND	107	70-130			
Bromodichloromethane	56.1	1.00	"	50.0	ND	112	70-130			
Bromoform	51.8	1.00	"	50.0	ND	104	70-130			
Bromomethane	57.0	1.00	"	50.0	ND	114	70-130			
Carbon disulfide	52.4	5.00	"	50.0	ND	105	70-130			
Carbon tetrachloride	56.8	1.00	"	50.0	ND	114	70-130			
Chlorobenzene	55.7	1.00	"	50.0	ND	111	70-130			
Chloroethane	57.6	1.00	"	50.0	ND	115	70-130			
Chloroform	55.9	1.00	"	50.0	1.48	109	70-130			
Chloromethane	57.8	1.00	"	50.0	ND	116	70-130			
cis-1,2-Dichloroethene	55.1	1.00	"	50.0	ND	110	70-130			
cis-1,3-Dichloropropene	55.6	1.00	"	50.0	ND	111	70-130			
Dibromochloromethane	55.7	1.00	"	50.0	ND	111	70-130			
Dibromomethane	53.5	1.00	"	50.0	ND	107	70-130			
Ethylbenzene	61.9	1.00	"	50.0	ND	124	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 B5E2251 - EPA 5030B (Water)

Matrix Spike (B5E2251-MS1)

Source: E5E0761-02

Prepared: 05/22/2025 Analyzed: 05/22/2025

Hexachlorobutadiene	60.6	5.00	ug/L	50.0	ND	121	70-130			
Iodomethane	50.7	10.0	"	50.0	ND	101	70-130			
Isopropylbenzene	62.1	1.00	"	50.0	ND	124	70-130			
m,p-Xylene	125	2.00	"	100	ND	125	70-130			
Methylene Chloride	52.2	15.0	"	50.0	ND	104	70-130			
Methyl tert-Butyl Ether	49.6	1.00	"	50.0	ND	99.3	70-130			
Naphthalene	51.0	4.00	"	50.0	ND	102	70-130			
n-Butylbenzene	63.9	1.00	"	50.0	ND	128	70-130			
n-Propylbenzene	62.1	1.00	"	50.0	ND	124	70-130			
o-Xylene	60.4	1.00	"	50.0	ND	121	70-130			
sec-Butylbenzene	62.6	1.00	"	50.0	ND	125	70-130			
Styrene	58.8	1.00	"	50.0	ND	118	70-130			
tert-Butylbenzene	62.0	1.00	"	50.0	ND	124	70-130			
Tetrachloroethene	62.0	1.00	"	50.0	5.57	113	70-130			
Toluene	55.2	1.00	"	50.0	ND	110	70-130			
trans-1,2-Dichloroethene	55.9	1.00	"	50.0	1.71	108	70-130			
trans-1,3-Dichloropropene	55.2	1.00	"	50.0	ND	110	70-130			
Trichloroethene	63.4	1.00	"	50.0	7.85	111	70-130			
Trichlorofluoromethane	59.5	1.00	"	50.0	ND	119	70-130			
Vinyl chloride	58.5	1.00	"	50.0	0.710	116	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.6	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Matrix Spike Dup (B5E2251-MSD1)

Source: E5E0761-02

Prepared: 05/22/2025 Analyzed: 05/22/2025

1,1,1,2-Tetrachloroethane	61.9	1.00	ug/L	50.0	ND	124	70-130	3.00	20	
1,1,1-Trichloroethane	64.8	1.00	"	50.0	6.78	116	70-130	2.86	20	

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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 B5E2251 - EPA 5030B (Water)

Matrix Spike Dup (B5E2251-MSD1)

Source: E5E0761-02

Prepared: 05/22/2025 Analyzed: 05/22/2025

1,1,2,2-Tetrachloroethane	59.7	1.00	ug/L	50.0	ND	119	70-130	9.02	20	
1,1,2-Trichloroethane	57.9	1.00	"	50.0	1.30	113	70-130	8.32	20	
1,1-Dichloroethane	110	1.00	"	50.0	56.5	106	70-130	3.29	20	
1,1-Dichloroethene	1990	1.00	"	50.0	2120	NR	70-130	0.572	20	QM-07
1,1-Dichloropropene	57.2	1.00	"	50.0	ND	114	70-130	2.93	20	
1,2,3-Trichlorobenzene	56.2	5.00	"	50.0	ND	112	70-130	3.53	20	
1,2,3-Trichloropropane	54.1	5.00	"	50.0	ND	108	70-130	1.13	20	
1,2,4-Trichlorobenzene	57.7	5.00	"	50.0	ND	115	70-130	3.20	20	
1,2,4-Trimethylbenzene	61.8	1.00	"	50.0	ND	124	70-130	1.68	20	
1,2-Dibromo-3-chloropropane	51.4	5.00	"	50.0	ND	103	70-130	10.9	20	
1,2-Dibromoethane (EDB)	57.3	1.50	"	50.0	ND	115	70-130	8.93	20	
1,2-Dichlorobenzene	59.0	1.00	"	50.0	ND	118	70-130	3.99	20	
1,2-Dichloroethane	57.0	1.00	"	50.0	ND	114	70-130	7.66	20	
1,2-Dichloropropane	58.0	1.00	"	50.0	ND	116	70-130	4.97	20	
1,3,5-Trimethylbenzene	62.8	1.00	"	50.0	ND	126	70-130	1.28	20	
1,3-Dichlorobenzene	60.1	1.00	"	50.0	ND	120	70-130	3.01	20	
1,3-Dichloropropane	56.7	1.00	"	50.0	ND	113	70-130	7.80	20	
1,4-Dichlorobenzene	60.3	1.00	"	50.0	ND	121	70-130	4.13	20	
2,2-Dichloropropane	58.6	1.00	"	50.0	ND	117	70-130	1.51	20	
2-Butanone	284	5.00	"	250	ND	114	70-130	13.9	20	
2-Chlorotoluene	63.2	1.00	"	50.0	ND	126	70-130	2.08	20	
2-Hexanone	286	6.00	"	250	ND	114	70-130	12.9	20	
4-Chlorotoluene	61.4	1.00	"	50.0	ND	123	70-130	2.77	20	
4-Isopropyltoluene	63.0	1.00	"	50.0	ND	126	70-130	0.509	20	
4-Methyl-2-pentanone	282	5.00	"	250	ND	113	70-130	11.8	20	
Acetone	287	8.00	"	250	ND	115	70-130	11.3	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 B5E2251 - EPA 5030B (Water)

Matrix Spike Dup (B5E2251-MSD1)

Source: E5E0761-02

Prepared: 05/22/2025 Analyzed: 05/22/2025

Benzene	56.9	1.00	ug/L	50.0	ND	114	70-130	4.02	20	
Bromobenzene	59.7	1.00	"	50.0	ND	119	70-130	4.35	20	
Bromochloromethane	57.4	1.00	"	50.0	ND	115	70-130	7.04	20	
Bromodichloromethane	59.6	1.00	"	50.0	ND	119	70-130	6.09	20	
Bromoform	56.5	1.00	"	50.0	ND	113	70-130	8.57	20	
Bromomethane	58.1	1.00	"	50.0	ND	116	70-130	1.88	20	
Carbon disulfide	51.9	5.00	"	50.0	ND	104	70-130	1.03	20	
Carbon tetrachloride	58.4	1.00	"	50.0	ND	117	70-130	2.81	20	
Chlorobenzene	58.0	1.00	"	50.0	ND	116	70-130	4.12	20	
Chloroethane	58.4	1.00	"	50.0	ND	117	70-130	1.46	20	
Chloroform	58.5	1.00	"	50.0	1.48	114	70-130	4.56	20	
Chloromethane	57.5	1.00	"	50.0	ND	115	70-130	0.503	20	
cis-1,2-Dichloroethene	57.0	1.00	"	50.0	ND	114	70-130	3.35	20	
cis-1,3-Dichloropropene	58.3	1.00	"	50.0	ND	117	70-130	4.86	20	
Dibromochloromethane	59.5	1.00	"	50.0	ND	119	70-130	6.53	20	
Dibromomethane	58.6	1.00	"	50.0	ND	117	70-130	9.05	20	
Ethylbenzene	62.4	1.00	"	50.0	ND	125	70-130	0.773	20	
Hexachlorobutadiene	60.4	5.00	"	50.0	ND	121	70-130	0.314	20	
Iodomethane	51.7	10.0	"	50.0	ND	103	70-130	1.84	20	
Isopropylbenzene	62.3	1.00	"	50.0	ND	125	70-130	0.354	20	
m,p-Xylene	127	2.00	"	100	ND	127	70-130	1.33	20	
Methylene Chloride	53.6	15.0	"	50.0	ND	107	70-130	2.65	20	
Methyl tert-Butyl Ether	54.7	1.00	"	50.0	ND	109	70-130	9.68	20	
Naphthalene	54.6	4.00	"	50.0	ND	109	70-130	6.81	20	
n-Butylbenzene	63.6	1.00	"	50.0	ND	127	70-130	0.502	20	
n-Propylbenzene	63.0	1.00	"	50.0	ND	126	70-130	1.47	20	

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E2251 - EPA 5030B (Water)

Matrix Spike Dup (B5E2251-MSD1)

Source: E5E0761-02

Prepared: 05/22/2025 Analyzed: 05/22/2025

o-Xylene	61.6	1.00	ug/L	50.0	ND	123	70-130	1.89	20	
sec-Butylbenzene	62.5	1.00	"	50.0	ND	125	70-130	0.112	20	
Styrene	61.1	1.00	"	50.0	ND	122	70-130	3.94	20	
tert-Butylbenzene	62.6	1.00	"	50.0	ND	125	70-130	0.851	20	
Tetrachloroethene	63.5	1.00	"	50.0	5.57	116	70-130	2.41	20	
Toluene	56.7	1.00	"	50.0	ND	113	70-130	2.68	20	
trans-1,2-Dichloroethene	56.8	1.00	"	50.0	1.71	110	70-130	1.67	20	
trans-1,3-Dichloropropene	59.5	1.00	"	50.0	ND	119	70-130	7.44	20	
Trichloroethene	66.1	1.00	"	50.0	7.85	117	70-130	4.28	20	
Trichlorofluoromethane	59.5	1.00	"	50.0	ND	119	70-130	0.0672	20	
Vinyl chloride	58.4	1.00	"	50.0	0.710	115	70-130	0.137	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.6	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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Notes and Definitions

U Sample is Non-Detect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND 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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