



CTEH

June 03, 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 E5E0784-01.

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
GACO0521T024S001	E5E0784-01	Soil	May 21, 2025 11:35	05/22/2025 07:45

Origins Laboratory

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Jen Pellegrini For Jordan A. Bynon, Project Manager

ORIGINS LABORATORY

CTEH
 5120 North Shore Drive
 North Little Rock AR 72118

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

CUSTOMER INFORMATION		PROJECT INFORMATION		ANALYSIS REQUEST		Text Instructions / Comments	
Enthalpy Analytical - Denver 1725 W. Elk Place, Denver, CO 80211 Phone: 303-433-4322		Matrix: A = Air S = Solid/Solid W = Water DW = Drinking Water P = Product O = Oil SD = Sediment T = Tissue WP = Wipe WW = Wastewater X = Other B = Blank C = Composite G = Grab or Discrete 0 = Other 1 = Na ₂ SO ₄ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = H ₂ O 6 = Other		Lab No: E5E0784 Page: 1 of 1 Standard: 2 Day 5 Day 3 Day 1 Day Custom TAT ASAP		Sample Receipt Temp and Notes: (Use only)	
Company: CTEH Name: Enthalpy Analytical - Denver Report To: Enthalpy Analytical - Denver Email: enhalpy@enthalpy.com Address: 5120 North Shore Dr, North Little Rock, AR 72118 Phone: 303-433-4322 Billing: enhalpy@enthalpy.com		Name: PROJ-054017 Bishop Loss of Containment Number: 1 P.O. #: Address: Galston, CO Site Name: Global ID: 		Analysis Request: MS/MSD		Text Instructions / Comments: Table 915, minus Chromium VI	
Received By: M. Beck Received By: M. Beck Relinquished By: Relinquished By: 		Signature: M. Beck Print Name: Matthew Beck Company/Title: CTEH ENHALPY		Date/Time: 5-21-25 18:00 05/22/25 01:45		Date/Time: 	
Sample ID: 1 GAC0951170245001 Date: 5/21/2025 Sampling Time (24 hr): 11:35 S Matrix Type: G Pres. No.: 0 Cont. No.: 2 Site: 402 Initials: MB		Sample Type: G Cont. No.: 2 Site: 402 Initials: MB		Analysis Request: MS/MSD		Text Instructions / Comments: Table 915, minus Chromium VI	

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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: E5E0784 Client: CTEH
 Client Project ID: PROJ-054017

Checklist Completed by: NKM/RPF Shipped Via: HD
 Date/time completed: 05/23/25 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 0.9 °C (Describe)
 Thermometer ID: T-007

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

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

Reviewed by (Project Manager)

05/22/25
Date/Time Reviewed

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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

GACO0521T024S001
5/21/2025 11:35:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0784-01 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.08		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	B5E2232	05/22/2025	05/22/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	96.1 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E2236	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	101 %			70-130		"	"	"	
Surrogate: Toluene-d8	99.1 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	92.4 %			70-130		"	"	"	

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Kyle Lawrence
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GACO0521T024S001
5/21/2025 11:35:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0784-01 (Soil)									
Origins Laboratory									
Metals by Saturated Paste by EPA 6010									
Calcium	2.17		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	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

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GACO0521T024S001
5/21/2025 11:35:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0784-01 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Pyrene	ND		0.020	mg/kg	1	B5E2246	05/22/2025	05/23/2025	U
Surrogate: Fluorene-d10	101 %			60-130		"	"	"	
Surrogate: Anthracene-d10	99.1 %			60-130		"	"	"	
Surrogate: Pyrene-d10	103 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	95.2 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.01			pH Units	1	B5E2274	05/22/2025	05/24/2025	
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SAR by 20B Saturated Paste

SAR	0.110		0.0100	SAR	1	B5E2272	05/22/2025	05/27/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.391		0.00500	mmhos/cm	1	B5E2274	05/22/2025	05/24/2025	
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Table 915 metals by EPA 6020B

Arsenic	6.51		0.258	mg/kg	10	B5E2240	05/22/2025	05/23/2025	
Barium	118		72.9	"	"	"	"	"	
Cadmium	ND		0.338	"	"	"	"	"	U
Copper	ND		40.9	"	"	"	"	"	U

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GACO0521T024S001
5/21/2025 11:35:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E0784-01 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Lead	ND		12.4	mg/kg	10	B5E2240	05/22/2025	05/23/2025	U
Nickel	ND		23.1	"	"	"	"	"	U
Selenium	0.334		0.231	"	"	"	"	"	U
Silver	ND		0.711	"	"	"	"	"	U
Zinc	ND		329	"	"	"	"	"	U

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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

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

Duplicate (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		0.0812				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

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 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

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		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			

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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E2246 - EPA 3580

LCS (B5E2246-BS1)

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

Benzo (a) anthracene	0.212	0.005	mg/kg	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			
Surrogate: Anthracene-d10	200		"	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			

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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E2246 - EPA 3580

Matrix Spike (B5E2246-MS1)

Source: E5E0778-11

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

Benzo (k) fluoranthene	0.242	0.020	mg/kg	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

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	

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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E2246 - EPA 3580

Matrix Spike Dup (B5E2246-MSD1)

Source: E5E0778-11

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

Fluorene	0.220	0.020	mg/kg	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 B5E2232 - EPA 3550B

Blank (B5E2232-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	23		"	24.9		90.7	50-150			

LCS (B5E2232-BS1)

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

Diesel (C10-C28)	757	50.0	mg/kg	1000		75.7	70-130			
Residual Range Organics (C28-C40)	776	200	"	1000		77.6	70-130			
Surrogate: o-Terphenyl	56		"	49.8		112	50-150			

Matrix Spike (B5E2232-MS1)

Source: E5E0767-01

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

Diesel (C10-C28)	721	50.0	mg/kg	1000	ND	72.1	70-130			
Residual Range Organics (C28-C40)	740	200	"	1000	ND	74.0	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

Matrix Spike Dup (B5E2232-MSD1)

Source: E5E0767-01

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

Diesel (C10-C28)	705	50.0	mg/kg	1000	ND	70.5	70-130	2.25	35	
Residual Range Organics (C28-C40)	719	200	"	1000	ND	71.9	70-130	2.87	35	
Surrogate: o-Terphenyl	49		"	49.8		99.5	50-150			

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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

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 B5E2240 - EPA 3050B

Blank (B5E2240-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 (B5E2240-BS1)

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

Arsenic	5.63	0.290	mg/kg	5.00		113	80-120			
Barium	589	82.0	"	500		118	80-120			
Cadmium	5.99	0.380	"	5.00		120	80-120			
Copper	59.8	46.0	"	50.0		120	80-120			
Lead	5.68	14.0	"	5.00		114	80-120			U
Nickel	5.77	26.0	"	5.00		115	80-120			U
Selenium	5.53	0.260	"	5.00		111	80-120			
Silver	5.67	0.800	"	5.00		113	80-120			
Zinc	56.7	370	"	50.0		113	80-120			U

Matrix Spike (B5E2240-MS1)

Source: E5E0782-01

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

Arsenic	10.3	0.272	mg/kg	4.69	14.9	NR	75-125			QM-07
Barium	589	77.0	"	469	89.0	107	75-125			
Cadmium	5.00	0.357	"	4.69	0.444	97.1	75-125			
Copper	58.9	43.2	"	46.9	12.3	99.2	75-125			
Lead	18.9	13.1	"	4.69	16.4	53.9	75-125			QM-07

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 5120 North Shore Drive
 North Little Rock AR 72118

Kyle Lawrence
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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 B5E2240 - EPA 3050B

Matrix Spike (B5E2240-MS1)

Source: E5E0782-01

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

Nickel	12.0	24.4	mg/kg	4.69	10.6	28.6	75-125			QM-07, U
Selenium	5.21	0.244	"	4.69	1.26	84.2	75-125			
Silver	4.83	0.751	"	4.69	0.0280	102	75-125			
Zinc	106	347	"	46.9	73.2	70.5	75-125			QM-07, U

Matrix Spike Dup (B5E2240-MSD1)

Source: E5E0782-01

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

Arsenic	12.0	0.268	mg/kg	4.61	14.9	NR	75-125	14.8	20	QM-07
Barium	699	75.6	"	461	89.0	132	75-125	17.0	20	QM-07
Cadmium	5.68	0.351	"	4.61	0.444	114	75-125	12.8	20	
Copper	60.3	42.4	"	46.1	12.3	104	75-125	2.46	20	
Lead	26.2	12.9	"	4.61	16.4	213	75-125	32.4	20	QM-07, QR-DUP
Nickel	13.3	24.0	"	4.61	10.6	58.1	75-125	10.6	20	QM-07, U
Selenium	5.33	0.240	"	4.61	1.26	88.2	75-125	2.19	20	
Silver	5.04	0.738	"	4.61	0.0280	109	75-125	4.41	20	
Zinc	123	341	"	46.1	73.2	108	75-125	14.5	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 B5E2274 - Saturated Paste pH/EC

Blank (B5E2274-BLK1)

Prepared: 05/22/2025 Analyzed: 05/24/2025

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B5E2274-DUP1)

Source: E5E0782-01

Prepared: 05/22/2025 Analyzed: 05/24/2025

pH	7.91		pH Units		7.89		0.253		25	
Specific Conductance (EC)	0.350	0.00500	mmhos/cm		0.350		0.257		25	

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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 B5E2236 - EPA 5030 (soil)

Blank (B5E2236-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	0.12		"	0.125		98.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.8	70-130			

LCS (B5E2236-BS1)

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

1,2,4-Trimethylbenzene	0.0881	0.00200	mg/kg	0.100		88.1	70-130			
1,3,5-Trimethylbenzene	0.0897	0.00200	"	0.100		89.7	70-130			
Benzene	0.0820	0.00200	"	0.100		82.0	70-130			
Ethylbenzene	0.0885	0.00200	"	0.100		88.5	70-130			
Naphthalene	0.0831	0.00380	"	0.100		83.1	70-130			
Toluene	0.0832	0.00200	"	0.100		83.2	70-130			
o-Xylene	0.0866	0.00200	"	0.100		86.6	70-130			
m,p-Xylene	0.175	0.00400	"	0.200		87.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.3	70-130			

Matrix Spike (B5E2236-MS1)

Source: E5E0767-01

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

1,2,4-Trimethylbenzene	0.0758	0.00200	mg/kg	0.100	ND	75.8	70-130			
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Jen Pellegrini For Jordan A. Bynon, Project Manager



CTEH
 5120 North Shore Drive
 North Little Rock AR 72118

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E2236 - EPA 5030 (soil)

Matrix Spike (B5E2236-MS1)

Source: E5E0767-01

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

1,3,5-Trimethylbenzene	0.0755	0.00200	mg/kg	0.100	ND	75.5	70-130			
Benzene	0.0761	0.00200	"	0.100	ND	76.1	70-130			
Ethylbenzene	0.0751	0.00200	"	0.100	ND	75.1	70-130			
Naphthalene	0.0747	0.00380	"	0.100	ND	74.7	70-130			
Toluene	0.0741	0.00200	"	0.100	ND	74.1	70-130			
o-Xylene	0.0758	0.00200	"	0.100	ND	75.8	70-130			
m,p-Xylene	0.151	0.00400	"	0.200	ND	75.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Matrix Spike Dup (B5E2236-MSD1)

Source: E5E0767-01

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

1,2,4-Trimethylbenzene	0.0670	0.00200	mg/kg	0.100	ND	67.0	70-130	12.4	20	QR-02
1,3,5-Trimethylbenzene	0.0673	0.00200	"	0.100	ND	67.3	70-130	11.5	20	QR-02
Benzene	0.0713	0.00200	"	0.100	ND	71.3	70-130	6.51	20	
Ethylbenzene	0.0696	0.00200	"	0.100	ND	69.6	70-130	7.63	20	QR-02
Naphthalene	0.0650	0.00380	"	0.100	ND	65.0	70-130	13.9	20	QR-02
Toluene	0.0694	0.00200	"	0.100	ND	69.4	70-130	6.55	20	QR-02
o-Xylene	0.0700	0.00200	"	0.100	ND	70.0	70-130	7.93	20	
m,p-Xylene	0.139	0.00400	"	0.200	ND	69.6	70-130	8.24	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	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

Notes and Definitions

U Sample is Non-Detect.

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

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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