



CTEH

May 19, 2025

Kyle Lawrence

5120 North Shore Drive

North Little Rock AR 72118

Project Name - PROJ-054017

Project Number - PROJ-054017

Attached are your analytical results for PROJ-054017 received by Origins Laboratory April 29, 2025. This project is associated with Origins project number E5D0865-01.

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
GACO0429T055S001	E5D0865-01	Soil	April 29, 2025 11:30	04/29/2025 20:15

On 5/18/2025, Madelyn Klinkerman from CTEH contacted Jordan Bynon via email regarding E5D0865 requesting that the sample ID be revised to GACO0429T055S001. Requested modifications to the chain of custody were made by Jordan Bynon on 5/19/2025 and revised chain of custody is included in the report with the original chain of custody.

Origins Laboratory

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ORIGINS LABORATORY

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

Company: CTEH Address: Report To: Lab Results: Kyle Lawrence, Eric Griffin, Andrew Heavill, Tam McMillin, Madelyn Klimentman Email To: labresults@cteh.com, kylelawrence@cteh.com, ericgriffin@cteh.com, andrewheavill@cteh.com, tamcmillan@cteh.com, madelynk@cteh.com Copy To:		Customer Project Name/Number: Shipco Loss of Containment - PROJ-054017 State: CO County/City: Golden Time Zone: CDT Compliance Monitoring? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Phone: Email:		Shelf/Entry ID #: Purchase Order #:	
Collected by (print): M. D. G. A. Client (Signature): Sample Disposal:		Quote #: Turnaround Date Required: Rush: (Specify Charges Apply) ASAP <input type="checkbox"/> Same Day <input type="checkbox"/> Next Day <input type="checkbox"/> 1-2 Day <input type="checkbox"/> 3-5 Day <input checked="" type="checkbox"/> Next Business Day <input type="checkbox"/> Standard	
Container Type: Plastic (P) or Glass (G) Table 915 VOCs 8260D		Container Sample ID: GACC004291056-15001 Matrix: SL Comp/Grab: G Date: 4/29/2025 Time: 1130 No. of Chgs: 3	
Customer Remarks / Special Conditions / Possible Hazards:			
Relinquished By (Company, Signature): Date/Time:		Received By (Company, Signature): Date/Time:	
Recycled By (Company, Signature): Date/Time:		Recycled By (Company, Signature): Date/Time:	
Fedex Tracking #:		Lab Tracking #:	
Lab Sample Temperature Info: Temp Blank Received: Y N NA Temp Blank Received: Y N NA Cooler 1 Temp Upon Receipt: °C Cooler 1 Temp After Receipt: °C Cooler 1 Temp After Receipt: °C Cooler 1 Temp After Receipt: °C		Lab Project Manager:	

2.06 7007

~~SIC ESTOSES~~

Origins Laboratory
Bynon

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CTEH
5120 North Shore Drive
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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: ESD0856⁶⁵ S.C. Client: CTEH
 Checklist Completed by: SMC/NKM Client Project ID: Bishop-054017
 Date/time completed: 4/30/25 Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1/2.0 °C (Describe)
 Thermometer ID: T-004

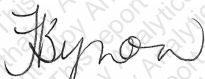
Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so,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

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

SHD
Reviewed by (Project Manager)

4/30/25
Date/Time Reviewed

Origins Laboratory



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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

TRAIN-UP-LU-1007 Analytical Request Document

Submitting a sample results in the client's possession until payment and acceptance of the Fee Invoice are confirmed. Contact: info@originslab.com or [501-949-2255](tel:5019492255)
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Lab Use ONLY - Affix Workorder/Login Label Here or List Face Workorder Number or MFL Login Number Here
Rev 01
MAK 05/18/2025

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

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

Address: _____

Report To: Lab Results: Kyle Lawrence, Eric Catlin, Andrew Henshaw, Tami McMullan, Madelyn Elmerman
Email To: labresults@cteh.com; kylelawrence@cteh.com; ecattin@cteh.com; ahenshaw@cteh.com; tmcullan@cteh.com; melmerman@cteh.com
MFL Collection Info/Address: _____

Copy To: _____

Customer Project Name/Number: **Basho Loss of Containment PROJ-054017** State: **CO** County/City: **Galecton** Time Zone Collect: PT MT CT ET

Phone: _____
Email: _____

Collected By (print): **M. B. C.** Purchase Order #: _____ DW PWS ID #: _____
Quote #: _____ DW Location Code: _____
Collected By (signature): *M. B. C.* Turnaround Date Required: _____
Immediately Picked up for: Yes No
Field Filtered (if applicable): Yes No
Sample Elapsed: _____
 Recurr: Same Day Next Day 3 Day 13 Day
 Hold: 4 Day Standard
Analysis: _____

* Matrix Codes (insert in Matrix box below) Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (PI), Soil/Solid (SL), Oil (OL), Waste (WP), Air (AR), Tissue (TS), Biosay (B), Vapor (V), Other (O)

Customer Sample ID	Matrix *	Comp/Grab	Date	Time	No. of Cans
GAC00429T055-15001	SL	G	4/29/2025	1130	3
GAC00429T055S001					

Container Type: Plastic (P) or Glass (G) **Table 915**
X **Table 826D**
VOCs 826D

Container Preservative Type **
U 3
** Preservative Type: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) acetic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (E) Unreserved, (O) Other

Lab Project Manager: _____

Analysis: _____

Lab Profile/Line: _____
SOP Sample Receipt Checklist: _____
Control Signatures Present: Y N NA
Collection Signatures Present: Y N NA
Receipts Contact: Y N NA
Correct Bottling: Y N NA
Influent Volume: Y N NA
Samples Received on Ice: Y N NA
VOC / Lead/PCDD Acceptable: Y N NA
IEHA Regulated Solids: Y N NA
Compliance Holding Time: Y N NA
Residual Chlorine Present: Y N NA
Cl Strips: _____
Sample pH Acceptable: Y N NA
pH Strips: _____
Solids Present: Y N NA
Lead/Acetate Strips: _____
LAB USE ONLY:
Lab Sample # / Container: _____

Customer Remarks / Special Conditions / Possible Hazards: _____

Type of Ice used: Wet Blue Dry None
Packing Material Used: _____
Racchar: sample(s) screened (500 cm) Y N NA

SHORT HOLDS PRESENT (>72 hours): Y N N/A
Lab Tracking #: _____
Samples received via: FEDEX UPS Client Courier Pace Courier

Relinquished by/Company (Signature): *M. B. C.* Date/Time: **4/29/25 15:55**
Relinquished by/Company (Signature): *K. Lawrence* Date/Time: **4/29/25 15:55**
Relinquished by/Company (Signature): *T. McMullan* Date/Time: **4/29/25 15:55**
Relinquished by/Company (Signature): _____ Date/Time: _____

Received by/Company (Signature): _____ Date/Time: _____
Received by/Company (Signature): _____ Date/Time: _____
Received by/Company (Signature): _____ Date/Time: _____

Table #: _____
Accum: _____
Temperature: _____
pH: _____
PB: _____

Trip Blank Received Y N NA
HCL, MeOH, TSP, Other: _____
Non-Conformances: Page: 1 of 1
YES / NO

GAC00429T0555

S.C. ESPRESSO ESD0605

2.06 7007

Origins Laboratory
Bynon

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CTEH
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Kyle Lawrence
 Project Number: PROJ-054017
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GACO0429T055S001
4/29/2025 11:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0865-01 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.904		0.100	mg/L	1	B5D3015	04/30/2025	05/02/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.259	mg/kg	1	B5D3008	04/30/2025	05/13/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D3002	04/30/2025	04/30/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	108 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D3029	04/30/2025	04/30/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

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GACO0429T055S001
4/29/2025 11:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0865-01 (Soil)									
Origins Laboratory									
GBTEX+TMBs by 8260D									
Surrogate: 1,2-Dichloroethane-d4	126 %			70-130		B5D3029	04/30/2025	04/30/2025	
Surrogate: Toluene-d8	104 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	131 %			70-130		"	"	"	S-GC
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5D3038	04/30/2025	05/01/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
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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GACO0429T055S001
4/29/2025 11:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0865-01 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Surrogate: Fluorene-d10	98.3 %			60-130		B5D3038	04/30/2025	05/01/2025	
Surrogate: Anthracene-d10	98.5 %			60-130		"	"	"	
Surrogate: Pyrene-d10	104 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.8 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	8.34			pH Units	1	B5D3019	04/30/2025	05/02/2025	
SAR by 20B Saturated Paste									
SAR	0.742		0.0100	SAR	1	B5D3011	04/30/2025	05/05/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	1.53		0.00500	mmhos/cm	1	B5D3019	04/30/2025	05/02/2025	
Table 915 metals by EPA 6020B									
Arsenic	7.35		0.255	mg/kg	10	B5D3025	"	05/01/2025	
Barium	105		72.0	"	"	"	"	"	
Cadmium	ND		0.334	"	"	"	"	"	
Copper	ND		40.4	"	"	"	"	"	
Lead	ND		12.3	"	"	"	"	"	
Nickel	ND		22.8	"	"	"	"	"	

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GACO0429T055S001
4/29/2025 11:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0865-01 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Selenium	0.305		0.228	mg/kg	10	B5D3025	04/30/2025	05/01/2025	
Silver	ND		0.703	"	"	"	"	"	
Zinc	ND		325	"	"	"	"	"	

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*** DEFAULT GENERAL METHOD *** - Quality Control

Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5D3008 - EPA 3060A										
Blank (B5D3008-BLK1)										
					Prepared: 04/30/2025 Analyzed: 05/12/2025					
Hexavalent Chromium	ND	0.250	mg/kg							
LCS (B5D3008-BS1)										
					Prepared: 04/30/2025 Analyzed: 05/12/2025					
Hexavalent Chromium	2.26	0.250	mg/kg	2.50		90.6	80-120			
Matrix Spike (B5D3008-MS1)										
		Source: E5D0856-05			Prepared: 04/30/2025 Analyzed: 05/12/2025					
Hexavalent Chromium	1.99	0.251	mg/kg	2.51	0.161	73.0	75-125			QM-07
Matrix Spike (B5D3008-MS2)										
		Source: E5D0856-05			Prepared: 04/30/2025 Analyzed: 05/12/2025					
Hexavalent Chromium	215	25.7	mg/kg	283	ND	76.0	75-125			
Matrix Spike Dup (B5D3008-MSD1)										
		Source: E5D0856-05			Prepared: 04/30/2025 Analyzed: 05/12/2025					
Hexavalent Chromium	1.54	0.247	mg/kg	2.47	0.161	55.8	75-125	25.8	200	QM-07
Post Spike (B5D3008-PS1)										
		Source: E5D0856-05			Prepared: 04/30/2025 Analyzed: 05/12/2025					
Hexavalent Chromium	49.0		ug/L	50.0	3.17	91.7	80-120			

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

Classical Chemistry Parameters - Quality Control Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D3011 - Saturated Paste Metals

Blank (B5D3011-BLK1)

Prepared: 04/30/2025 Analyzed: 05/05/2025

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

Duplicate (B5D3011-DUP1)

Source: E5D0856-05

Prepared: 04/30/2025 Analyzed: 05/05/2025

Calcium PPM	29.4	10.0	mg/L		26.6			10.2	50	
SAR	ND	0.0100	SAR		ND				200	
Magnesium PPM	25.9	10.0	mg/L		24.9			3.82	50	
Sodium PPM	407	10.0	"		404			0.917	50	

Batch B5D3015 - DTPA Sorbitol Preparation

Blank (B5D3015-BLK1)

Prepared: 04/30/2025 Analyzed: 05/02/2025

Boron	ND	0.100	mg/L							
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Duplicate (B5D3015-DUP1)

Source: E5D0856-05

Prepared: 04/30/2025 Analyzed: 05/02/2025

Boron	3.81	0.100	mg/L		3.86			1.55	50	
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Kyle Lawrence
 Project Number: PROJ-054017
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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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B5D3038 - EPA 3580

Blank (B5D3038-BLK1)

Prepared: 04/30/2025 Analyzed: 05/01/2025

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U

Surrogate: Fluorene-d10	200		ug/kg	200		98.1	60-130			
Surrogate: Anthracene-d10	200		"	200		99.4	60-130			
Surrogate: Pyrene-d10	210		"	200		105	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

LCS (B5D3038-BS1)

Prepared: 04/30/2025 Analyzed: 05/01/2025

1-Methylnaphthalene	0.202	0.002	mg/kg	0.200		101	70-130			
2-Methylnaphthalene	0.203	0.002	"	0.200		102	70-130			
Acenaphthene	0.205	0.020	"	0.200		102	70-130			
Anthracene	0.201	0.020	"	0.200		101	70-130			

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 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 B5D3038 - EPA 3580

LCS (B5D3038-BS1)

Prepared: 04/30/2025 Analyzed: 05/01/2025

Benzo (a) anthracene	0.209	0.005	mg/kg	0.200		104	70-130			
Benzo (a) pyrene	0.206	0.020	"	0.200		103	70-130			
Benzo (b) fluoranthene	0.212	0.020	"	0.200		106	70-130			
Benzo (g,h,i) perylene	0.222	0.020	"	0.200		111	70-130			
Benzo (k) fluoranthene	0.207	0.020	"	0.200		103	70-130			
Chrysene	0.206	0.020	"	0.200		103	70-130			
Dibenz (a,h) anthracene	0.216	0.020	"	0.200		108	70-130			
Fluoranthene	0.222	0.020	"	0.200		111	70-130			
Fluorene	0.202	0.020	"	0.200		101	70-130			
Indeno (1,2,3-cd) pyrene	0.217	0.020	"	0.200		108	70-130			
Naphthalene	0.222	0.002	"	0.200		111	70-130			
Phenanthrene	0.206	0.020	"	0.200		103	70-130			
Pyrene	0.221	0.020	"	0.200		110	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.3	60-130			
Surrogate: Anthracene-d10	200		"	200		98.3	60-130			
Surrogate: Pyrene-d10	210		"	200		105	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike (B5D3038-MS1)

Source: E5D0856-05

Prepared: 04/30/2025 Analyzed: 05/01/2025

1-Methylnaphthalene	0.208	0.002	mg/kg	0.200	ND	104	70-130			
2-Methylnaphthalene	0.209	0.002	"	0.200	ND	104	70-130			
Acenaphthene	0.207	0.020	"	0.200	0.001	103	70-130			
Anthracene	0.213	0.020	"	0.200	0.0008	106	70-130			
Benzo (a) anthracene	0.214	0.005	"	0.200	ND	107	70-130			
Benzo (a) pyrene	0.211	0.020	"	0.200	ND	106	70-130			
Benzo (b) fluoranthene	0.213	0.020	"	0.200	ND	107	70-130			
Benzo (g,h,i) perylene	0.215	0.020	"	0.200	ND	107	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

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 B5D3038 - EPA 3580

Matrix Spike (B5D3038-MS1)		Source: E5D0856-05			Prepared: 04/30/2025 Analyzed: 05/01/2025					
Benzo (k) fluoranthene	0.208	0.020	mg/kg	0.200	ND	104	70-130			
Chrysene	0.213	0.020	"	0.200	0.0007	106	70-130			
Dibenz (a,h) anthracene	0.216	0.020	"	0.200	ND	108	70-130			
Fluoranthene	0.218	0.020	"	0.200	0.0005	109	70-130			
Fluorene	0.204	0.020	"	0.200	0.0006	102	70-130			
Indeno (1,2,3-cd) pyrene	0.214	0.020	"	0.200	ND	107	70-130			
Naphthalene	0.220	0.002	"	0.200	ND	110	70-130			
Phenanthrene	0.211	0.020	"	0.200	ND	106	70-130			
Pyrene	0.217	0.020	"	0.200	ND	108	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.1	60-130			
Surrogate: Anthracene-d10	200		"	200		99.3	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.1	60-130			

Matrix Spike Dup (B5D3038-MSD1)		Source: E5D0856-05			Prepared: 04/30/2025 Analyzed: 05/01/2025					
1-Methylnaphthalene	0.200	0.002	mg/kg	0.200	ND	100	70-130	3.77	20	
2-Methylnaphthalene	0.201	0.002	"	0.200	ND	101	70-130	3.51	20	
Acenaphthene	0.200	0.020	"	0.200	0.001	99.7	70-130	3.15	20	
Anthracene	0.197	0.020	"	0.200	0.0008	97.9	70-130	7.88	20	
Benzo (a) anthracene	0.198	0.005	"	0.200	ND	99.1	70-130	7.55	20	
Benzo (a) pyrene	0.208	0.020	"	0.200	ND	104	70-130	1.70	20	
Benzo (b) fluoranthene	0.204	0.020	"	0.200	ND	102	70-130	4.16	20	
Benzo (g,h,i) perylene	0.212	0.020	"	0.200	ND	106	70-130	1.24	20	
Benzo (k) fluoranthene	0.202	0.020	"	0.200	ND	101	70-130	3.23	20	
Chrysene	0.202	0.020	"	0.200	0.0007	101	70-130	5.20	20	
Dibenz (a,h) anthracene	0.211	0.020	"	0.200	ND	105	70-130	2.38	20	
Fluoranthene	0.210	0.020	"	0.200	0.0005	105	70-130	3.93	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 B5D3038 - EPA 3580

Matrix Spike Dup (B5D3038-MSD1)

Source: E5D0856-05

Prepared: 04/30/2025 Analyzed: 05/01/2025

Fluorene	0.197	0.020	mg/kg	0.200	0.0006	98.3	70-130	3.39	20	
Indeno (1,2,3-cd) pyrene	0.213	0.020	"	0.200	ND	106	70-130	0.765	20	
Naphthalene	0.210	0.002	"	0.200	ND	105	70-130	4.26	20	
Phenanthrene	0.203	0.020	"	0.200	ND	102	70-130	3.90	20	
Pyrene	0.208	0.020	"	0.200	ND	104	70-130	4.10	20	
Surrogate: Fluorene-d10	200		ug/kg	200		98.0	60-130			
Surrogate: Anthracene-d10	200		"	200		99.8	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

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

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5D3002 - EPA 3550B										
Blank (B5D3002-BLK1)										
					Prepared: 04/30/2025 Analyzed: 04/30/2025					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	28		"	24.9		112	50-150			
LCS (B5D3002-BS1)										
					Prepared: 04/30/2025 Analyzed: 04/30/2025					
Diesel (C10-C28)	897	50.0	mg/kg	1000		89.7	70-130			
Residual Range Organics (C28-C40)	848	200	"	1000		84.8	70-130			
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			
Matrix Spike (B5D3002-MS1)										
		Source: E5D0850-03			Prepared: 04/30/2025 Analyzed: 04/30/2025					
Diesel (C10-C28)	943	50.0	mg/kg	1000	ND	94.3	70-130			
Residual Range Organics (C28-C40)	939	200	"	1000	ND	93.9	70-130			
Surrogate: o-Terphenyl	57		"	49.8		114	50-150			
Matrix Spike Dup (B5D3002-MSD1)										
		Source: E5D0850-03			Prepared: 04/30/2025 Analyzed: 04/30/2025					
Diesel (C10-C28)	884	50.0	mg/kg	1000	ND	88.4	70-130	6.42	35	
Residual Range Organics (C28-C40)	891	200	"	1000	ND	89.1	70-130	5.16	35	
Surrogate: o-Terphenyl	64		"	49.8		129	50-150			

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Kyle Lawrence
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 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 B5D3025 - EPA 3050B

Blank (B5D3025-BLK1)

Prepared: 04/30/2025 Analyzed: 05/01/2025

Arsenic	ND	0.290	mg/kg							
Barium	ND	82.0	"							
Cadmium	ND	0.380	"							
Copper	ND	46.0	"							
Lead	ND	14.0	"							
Nickel	ND	26.0	"							
Selenium	ND	0.260	"							
Silver	ND	0.800	"							
Zinc	ND	370	"							

LCS (B5D3025-BS1)

Prepared: 04/30/2025 Analyzed: 05/01/2025

Arsenic	5.10	0.290	mg/kg	5.00		102	80-120			
Barium	465	82.0	"	500		93.1	80-120			
Cadmium	5.07	0.380	"	5.00		101	80-120			
Copper	53.9	46.0	"	50.0		108	80-120			
Lead	4.88	14.0	"	5.00		97.6	80-120			
Nickel	5.29	26.0	"	5.00		106	80-120			
Selenium	5.14	0.260	"	5.00		103	80-120			
Silver	4.91	0.800	"	5.00		98.2	80-120			
Zinc	53.8	370	"	50.0		108	80-120			

Matrix Spike (B5D3025-MS1)

Source: E5D0852-02

Prepared: 04/30/2025 Analyzed: 05/01/2025

Arsenic	9.87	0.267	mg/kg	4.61	6.06	82.6	75-125			
Barium	565	75.6	"	461	143	91.7	75-125			
Cadmium	5.08	0.350	"	4.61	0.256	105	75-125			
Copper	96.6	42.4	"	46.1	27.7	149	75-125			QM-07
Lead	13.7	12.9	"	4.61	10.6	69.0	75-125			QM-07

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Metals by EPA 6000/7000 Series Methods - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D3025 - EPA 3050B

Matrix Spike (B5D3025-MS1)

Source: E5D0852-02

Prepared: 04/30/2025 Analyzed: 05/01/2025

Nickel	14.7	24.0	mg/kg	4.61	11.6	66.6	75-125			QM-07
Selenium	5.02	0.240	"	4.61	0.435	99.4	75-125			
Silver	4.60	0.738	"	4.61	0.0507	98.6	75-125			
Zinc	108	341	"	46.1	58.2	109	75-125			

Matrix Spike Dup (B5D3025-MSD1)

Source: E5D0852-02

Prepared: 04/30/2025 Analyzed: 05/01/2025

Arsenic	11.6	0.271	mg/kg	4.67	6.06	118	75-125	16.0	20	
Barium	645	76.5	"	467	143	108	75-125	13.2	20	
Cadmium	5.07	0.355	"	4.67	0.256	103	75-125	0.275	20	
Copper	86.5	42.9	"	46.7	27.7	126	75-125	11.0	20	QM-07
Lead	14.9	13.1	"	4.67	10.6	92.8	75-125	8.01	20	
Nickel	16.9	24.3	"	4.67	11.6	113	75-125	14.1	20	
Selenium	5.15	0.243	"	4.67	0.435	101	75-125	2.56	20	
Silver	4.61	0.747	"	4.67	0.0507	97.7	75-125	0.281	20	
Zinc	106	345	"	46.7	58.2	103	75-125	2.14	20	

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 Project: PROJ-054017

Saturated Paste - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D3019 - Saturated Paste pH/EC

Blank (B5D3019-BLK1)

Prepared: 04/30/2025 Analyzed: 05/02/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B5D3019-DUP1)

Source: E5D0856-05

Prepared: 04/30/2025 Analyzed: 05/02/2025

pH 9.08 pH Units 9.12 0.440 25

Specific Conductance (EC) 4.41 0.00500 mmhos/cm 4.35 1.24 25

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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 B5D3029 - EPA 5030 (soil)

Blank (B5D3029-BLK1)

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

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	0.15	"	0.125	123	70-130
Surrogate: Toluene-d8	0.13	"	0.125	106	70-130
Surrogate: 4-Bromofluorobenzene	0.16	"	0.125	129	70-130

LCS (B5D3029-BS1)

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

1,2,4-Trimethylbenzene	0.0920	0.00200	mg/kg	0.100	92.0	70-130
1,3,5-Trimethylbenzene	0.0900	0.00200	"	0.100	90.0	70-130
Benzene	0.0848	0.00200	"	0.100	84.8	70-130
Ethylbenzene	0.0940	0.00200	"	0.100	94.0	70-130
Naphthalene	0.101	0.00380	"	0.100	101	70-130
Toluene	0.0837	0.00200	"	0.100	83.7	70-130
o-Xylene	0.0984	0.00200	"	0.100	98.4	70-130
m,p-Xylene	0.175	0.00400	"	0.200	87.7	70-130

Surrogate: 1,2-Dichloroethane-d4	0.15	"	0.125	122	70-130
Surrogate: Toluene-d8	0.14	"	0.125	109	70-130
Surrogate: 4-Bromofluorobenzene	0.16	"	0.125	126	70-130

Matrix Spike (B5D3029-MS1)

Source: E5D0859-01

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

1,2,4-Trimethylbenzene	0.0837	0.00200	mg/kg	0.100	ND	83.7	70-130
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 Project: PROJ-054017

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D3029 - EPA 5030 (soil)

Matrix Spike (B5D3029-MS1)		Source: E5D0859-01			Prepared: 04/30/2025 Analyzed: 04/30/2025					
1,3,5-Trimethylbenzene	0.0817	0.00200	mg/kg	0.100	ND	81.7	70-130			
Benzene	0.0800	0.00200	"	0.100	ND	80.0	70-130			
Ethylbenzene	0.0928	0.00200	"	0.100	ND	92.8	70-130			
Naphthalene	0.0751	0.00380	"	0.100	ND	75.1	70-130			
Toluene	0.0808	0.00200	"	0.100	ND	80.8	70-130			
o-Xylene	0.0964	0.00200	"	0.100	ND	96.4	70-130			
m,p-Xylene	0.170	0.00400	"	0.200	ND	85.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		122	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.16		"	0.125		130	70-130			

Matrix Spike Dup (B5D3029-MSD1)		Source: E5D0859-01			Prepared: 04/30/2025 Analyzed: 04/30/2025					
1,2,4-Trimethylbenzene	0.0858	0.00200	mg/kg	0.100	ND	85.8	70-130	2.57	20	
1,3,5-Trimethylbenzene	0.0840	0.00200	"	0.100	ND	84.0	70-130	2.83	20	
Benzene	0.0805	0.00200	"	0.100	ND	80.5	70-130	0.573	20	
Ethylbenzene	0.0940	0.00200	"	0.100	ND	94.0	70-130	1.28	20	
Naphthalene	0.0777	0.00380	"	0.100	ND	77.7	70-130	3.33	20	
Toluene	0.0807	0.00200	"	0.100	ND	80.7	70-130	0.149	20	
o-Xylene	0.0980	0.00200	"	0.100	ND	98.0	70-130	1.56	20	
m,p-Xylene	0.172	0.00400	"	0.200	ND	86.1	70-130	1.06	20	
Surrogate: 1,2-Dichloroethane-d4	0.16		"	0.125		125	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.16		"	0.125		129	70-130			

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

Notes and Definitions

- U Sample is Non-Detect.
 - S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
 - 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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