ORIGINS LABORATORY

CTEH

Kyle Lawrence

5120 North Shore Drive

North Little RockAR 72118

May 27, 2025

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

Attached are your analytical results for PROJ-054017 received by Origins Laboratory April 28, 2025. This project is associated with Origins project number E5D0813-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory
303.433.1322
projectmanager@originslab.com

THE NELAC INSTITUTE

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
GACO0428T156-1S001	E5D0813-01	Soil	April 28, 2025 9:45	04/28/2025 19:57

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: PROJ-054017

CHAIN-OF-CUSTODY Analytical Request Document

ESD0EB

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Company: CTEH	Billing Information: ctehap@montrose-env.com
Address: 5120 North Shore Drive, North Little Rock, AR 72118	
Report To: Lab Results; Kyle Lawrence; Eric Catlin; Andrew Henault; Tami McMullin; Madelyn Klinkerman	Email To: labresults@cteh.com; kylelawrence@cteh.com; ecatlin@cteh.com; ahenault@cteh.com; tmcmullin@cteh.com; mklinkerman@cteh.com
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: Bishop LOC PROJ-054017	State: CO County/City: Galeton Time Zone Collect: [ ] PT [X] MT [ ] CT [ ] ET
Phone: Email:	Site/Facility ID #: / Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Matthew Bair	Purchase Order #: Quote #: / DW PWS ID #: DW Location Code:
Collected By (signature): Mutt-BL	Turnaround Date Required: / Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [X] Hold: 2X	Rush: (Expedite Charges Apply) ASAP [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] Standard / Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

Container Preservative Type **: U 3

** Preservative Types: (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) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Lab Project Manager:

Analyses: Container Type: Plastic (P) or Glass (G); Table 915; VOCs 8260D

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Date	Time	No. of Cntrs	Container Type	Table 915	VOCs 8260D
GA-UN-042825-TSE-(-1500)	SL	G	4-28-25	0945	3	G	X	

Lab Profile/Line:
Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips:
Sample pH Acceptable Y N NA
pH Strips:
Sulfide Present Y N NA
Lead Acetate Strips:
LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:	Type of Ice Used: Wet Blue Dry None / Packing Material Used: / Radchem sample(s) screened (<500 cpm): Y N NA	SHORT HOLDS PRESENT (<72 hours): Y N N/A / Lab Tracking #: / Samples received via: FEDEX UPS Client Courier Pace Courier	LAB Sample Temperature info: Temp Blank Received: Y N NA; Therm ID#:; Cooler 1 Temp Upon Receipt: __oC; Cooler 1 Therm Corr. Factor: __oC; Cooler 1 Corrected Temp: __oC; Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
MattBL CTEH	4-28-25 1636	[signature]	4/28/25 1836	Table #:
[signature]	4-28-25 1936	[signature]	4/28/25 19:57	Acctnum: Template:
				PM:

Trip Blank Received: Y N NA HCL MeOH TSP Other

Non Conformance(s): Page:

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CTEH
5120 North Shore Drive
North Little Rock AR 72118

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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: ESD08B

Client: CTEH
Client Project ID: PROJ-054017

Checklist Completed by: SKM / SKM
Date/time completed: 04 / 29 / 25

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A

Matrix(s) Received: (Check all that apply): X Soil/Solid _____Water _____Other: _____
(Describe)

Cooler Number/Temperature: 1 / 0.3 °c

Thermometer ID: T-007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C[1]?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	X			signed, dated, intact
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact[1]?	X			
Was adequate sample volume provided[1]?	X			
Are short holding time analytes or samples with HTs due within 48 hours present[1]?			X	
Is a chain-of-custody (COC) present and filled out completely[1]?	X			
Does the COC agree with the number and type of sample bottles received[1]?	X			
Do the sample IDs on the bottle labels match the COC[1]?	X			
Is the COC properly relinquished by the client with date and time recorded[1]?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? **If yes, contact client and note in narrative.**			X	
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)*			X	
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.*

SKM
Reviewed by (Project Manager)

04 / 29 / 25
Date/Time Reviewed

Origins Laboratory

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

GACO0428T156-1S001
4/28/2025 9:45:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0813-01 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.369		0.0996	mg/L	1	B5D2910	04/29/2025	05/01/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.250	mg/kg	1	B5D2913	04/29/2025	05/12/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D2915	04/29/2025	04/29/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	*77.1 %*			*50-150*		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D2912	04/29/2025	04/29/2025	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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GACO0428T156-1S001
4/28/2025 9:45:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0813-01 (Soil)									
Origins Laboratory									
GBTEX+TMBs by 8260D									
Surrogate: 1,2-Dichloroethane-d4	*103 %*			*70-130*		*B5D2912*	*04/29/2025*	*04/29/2025*	
Surrogate: Toluene-d8	*98.5 %*			*70-130*		*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene	*98.7 %*			*70-130*		*"*	*"*	*"*	
Metals by Saturated Paste by EPA 6010									
Calcium	ND		0.499	meq/L	10	[CALC]	04/29/2025	05/01/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.553		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5D2916	04/29/2025	05/01/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	0.009		0.005	"	"	"	"	"	
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

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Project: PROJ-054017

GACO0428T156-1S001
4/28/2025 9:45:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0813-01 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Fluoranthene	ND		0.020	mg/kg	1	B5D2916	04/29/2025	05/01/2025	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	*98.4 %*			*60-130*		"	"	"	
Surrogate: Anthracene-d10	*95.0 %*			*60-130*		"	"	"	
Surrogate: Pyrene-d10	*96.4 %*			*60-130*		"	"	"	
Surrogate: Benzo (a) pyrene-d12	*102 %*			*60-130*		"	"	"	
pH in Soil by 9045D									
pH	6.83			pH Units	1	B5D2911	04/29/2025	05/01/2025	
SAR by 20B Saturated Paste									
SAR	1.21		0.0100	SAR	1	B5D2909	04/29/2025	05/01/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.334		0.00500	mmhos/cm	1	B5D2911	04/29/2025	05/01/2025	
Table 915 metals by EPA 6020B									

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Project Number: PROJ-054017
Project: PROJ-054017

GACO0428T156-1S001
4/28/2025 9:45:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0813-01 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	3.35		0.278	mg/kg	10	B5D2908	04/29/2025	04/30/2025	
Barium	ND		78.5	"	"	"	"	"	U
Cadmium	ND		0.364	"	"	"	"	"	U
Copper	ND		44.0	"	"	"	"	"	U
Lead	31.7		13.4	"	"	"	"	"	
Nickel	ND		24.9	"	"	"	"	"	U
Selenium	0.274		0.249	"	"	"	"	"	
Silver	ND		0.766	"	"	"	"	"	U
Zinc	ND		354	"	"	"	"	"	U

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Project Number: PROJ-054017
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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 B5D2913 - EPA 3060A										
Blank (B5D2913-BLK1)					Prepared: 04/29/2025 Analyzed: 05/23/2025					
Hexavalent Chromium	ND	0.250	mg/kg							U
LCS (B5D2913-BS1)					Prepared: 04/29/2025 Analyzed: 05/12/2025					
Hexavalent Chromium	2.13	0.250	mg/kg	2.50		85.4	80-120			
Matrix Spike (B5D2913-MS1)		**Source: E5D0816-02**			Prepared: 04/29/2025 Analyzed: 05/12/2025					
Hexavalent Chromium	63.5	25.6	mg/kg	2.56	ND	NR	75-125			QM-14
Matrix Spike (B5D2913-MS2)		**Source: E5D0816-02**			Prepared: 04/29/2025 Analyzed: 05/12/2025					
Hexavalent Chromium	1.36	0.253	mg/kg	262	ND	0.518	75-125			QM-14
Matrix Spike Dup (B5D2913-MSD1)		**Source: E5D0816-02**			Prepared: 04/29/2025 Analyzed: 05/12/2025					
Hexavalent Chromium	0.479	0.244	mg/kg	2.44	ND	19.6	75-125	197	200	QM-14
Post Spike (B5D2913-PS1)		**Source: E5D0816-02**			Prepared: 04/29/2025 Analyzed: 05/12/2025					
Hexavalent Chromium	44.1		ug/L	50.0	0.00	88.2	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
Batch B5D2909 - Saturated Paste Metals										
Blank (B5D2909-BLK1)					Prepared: 04/29/2025 Analyzed: 05/01/2025					
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 (B5D2909-DUP1)		**Source: E5D0816-02**			Prepared: 04/29/2025 Analyzed: 05/01/2025					
Calcium PPM	326	10.0	mg/L		269			18.9	50	
SAR	ND	0.0100	SAR		3.29				200	U
Magnesium PPM	253	10.0	mg/L		214			16.7	50	
Sodium PPM	357	10.0	"		298			18.0	50	
Batch B5D2910 - DTPA Sorbitol Preparation										
Blank (B5D2910-BLK1)					Prepared: 04/29/2025 Analyzed: 05/01/2025					
Boron	ND	0.100	mg/L							U
Duplicate (B5D2910-DUP1)		**Source: E5D0781-01**			Prepared: 04/29/2025 Analyzed: 05/01/2025					
Boron	1.48	0.0996	mg/L		1.44			2.82	50	

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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 B5D2916 - EPA 3580										
Blank (B5D2916-BLK1)					Prepared: 04/29/2025 Analyzed: 04/30/2025					
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*		*98.0*	*60-130*			
Surrogate: Anthracene-d10	*190*		*"*	*200*		*96.0*	*60-130*			
Surrogate: Pyrene-d10	*210*		*"*	*200*		*103*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*200*		*"*	*200*		*101*	*60-130*			
LCS (B5D2916-BS1)					Prepared: 04/29/2025 Analyzed: 04/30/2025					
1-Methylnaphthalene	0.184	0.002	mg/kg	0.200		92.2	70-130			
2-Methylnaphthalene	0.184	0.002	"	0.200		92.2	70-130			
Acenaphthene	0.180	0.020	"	0.200		89.9	70-130			
Anthracene	0.164	0.020	"	0.200		82.1	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
Batch B5D2916 - EPA 3580										
LCS (B5D2916-BS1)					Prepared: 04/29/2025 Analyzed: 04/30/2025					
Benzo (a) anthracene	0.181	0.005	mg/kg	0.200		90.4	70-130			
Benzo (a) pyrene	0.185	0.020	"	0.200		92.6	70-130			
Benzo (b) fluoranthene	0.191	0.020	"	0.200		95.7	70-130			
Benzo (g,h,i) perylene	0.201	0.020	"	0.200		100	70-130			
Benzo (k) fluoranthene	0.194	0.020	"	0.200		97.2	70-130			
Chrysene	0.190	0.020	"	0.200		94.8	70-130			
Dibenz (a,h) anthracene	0.194	0.020	"	0.200		97.2	70-130			
Fluoranthene	0.193	0.020	"	0.200		96.3	70-130			
Fluorene	0.177	0.020	"	0.200		88.3	70-130			
Indeno (1,2,3-cd) pyrene	0.233	0.020	"	0.200		116	70-130			
Naphthalene	0.194	0.002	"	0.200		97.1	70-130			
Phenanthrene	0.170	0.020	"	0.200		85.2	70-130			
Pyrene	0.192	0.020	"	0.200		96.1	70-130			
Surrogate: Fluorene-d10	*200*		*ug/kg*	*200*		*101*	*60-130*			
Surrogate: Anthracene-d10	*180*		*"*	*200*		*92.3*	*60-130*			
Surrogate: Pyrene-d10	*230*		*"*	*200*		*113*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*220*		*"*	*200*		*111*	*60-130*			
Matrix Spike (B5D2916-MS1)		**Source: E5D0816-02**			Prepared: 04/29/2025 Analyzed: 05/01/2025					
1-Methylnaphthalene	0.203	0.002	mg/kg	0.200	ND	102	70-130			
2-Methylnaphthalene	0.207	0.002	"	0.200	ND	103	70-130			
Acenaphthene	0.200	0.020	"	0.200	0.0006	99.8	70-130			
Anthracene	0.206	0.020	"	0.200	0.0005	103	70-130			
Benzo (a) anthracene	0.216	0.005	"	0.200	0.002	107	70-130			
Benzo (a) pyrene	0.243	0.020	"	0.200	0.004	120	70-130			
Benzo (b) fluoranthene	0.235	0.020	"	0.200	0.002	116	70-130			
Benzo (g,h,i) perylene	0.199	0.020	"	0.200	0.002	98.2	70-130			

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North Little Rock AR 72118

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5D2916 - EPA 3580										
Matrix Spike (B5D2916-MS1)		**Source: E5D0816-02**			Prepared: 04/29/2025 Analyzed: 05/01/2025					
Benzo (k) fluoranthene	0.212	0.020	mg/kg	0.200	0.0008	106	70-130			
Chrysene	0.214	0.020	"	0.200	0.003	106	70-130			
Dibenz (a,h) anthracene	0.233	0.020	"	0.200	0.0004	116	70-130			
Fluoranthene	0.216	0.020	"	0.200	0.003	106	70-130			
Fluorene	0.196	0.020	"	0.200	0.0002	98.1	70-130			
Indeno (1,2,3-cd) pyrene	0.208	0.020	"	0.200	0.002	103	70-130			
Naphthalene	0.201	0.002	"	0.200	ND	101	70-130			
Phenanthrene	0.207	0.020	"	0.200	0.001	103	70-130			
Pyrene	0.210	0.020	"	0.200	0.003	103	70-130			
Surrogate: Fluorene-d10	*200*		*ug/kg*	*200*		*97.6*	*60-130*			
Surrogate: Anthracene-d10	*190*		*"*	*200*		*93.1*	*60-130*			
Surrogate: Pyrene-d10	*190*		*"*	*200*		*94.6*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*210*		*"*	*200*		*106*	*60-130*			
Matrix Spike Dup (B5D2916-MSD1)		**Source: E5D0816-02**			Prepared: 04/29/2025 Analyzed: 05/01/2025					
1-Methylnaphthalene	0.208	0.002	mg/kg	0.200	ND	104	70-130	2.35	20	
2-Methylnaphthalene	0.210	0.002	"	0.200	ND	105	70-130	1.53	20	
Acenaphthene	0.202	0.020	"	0.200	0.0006	101	70-130	1.07	20	
Anthracene	0.229	0.020	"	0.200	0.0005	114	70-130	10.5	20	
Benzo (a) anthracene	0.230	0.005	"	0.200	0.002	114	70-130	6.44	20	
Benzo (a) pyrene	0.236	0.020	"	0.200	0.004	116	70-130	2.79	20	
Benzo (b) fluoranthene	0.244	0.020	"	0.200	0.002	121	70-130	3.81	20	
Benzo (g,h,i) perylene	0.201	0.020	"	0.200	0.002	99.4	70-130	1.16	20	
Benzo (k) fluoranthene	0.223	0.020	"	0.200	0.0008	111	70-130	5.09	20	
Chrysene	0.216	0.020	"	0.200	0.003	107	70-130	0.973	20	
Dibenz (a,h) anthracene	0.237	0.020	"	0.200	0.0004	118	70-130	1.53	20	
Fluoranthene	0.218	0.020	"	0.200	0.003	108	70-130	1.17	20	

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
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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 B5D2916 - EPA 3580										
Matrix Spike Dup (B5D2916-MSD1)		**Source: E5D0816-02**			Prepared: 04/29/2025 Analyzed: 05/01/2025					
Fluorene	0.198	0.020	mg/kg	0.200	0.0002	98.8	70-130	0.730	20	
Indeno (1,2,3-cd) pyrene	0.206	0.020	"	0.200	0.002	102	70-130	0.918	20	
Naphthalene	0.205	0.002	"	0.200	ND	102	70-130	1.59	20	
Phenanthrene	0.209	0.020	"	0.200	0.001	104	70-130	0.771	20	
Pyrene	0.210	0.020	"	0.200	0.003	103	70-130	0.106	20	
Surrogate: Fluorene-d10	*200*		*ug/kg*	*200*		*97.7*	*60-130*			
Surrogate: Anthracene-d10	*190*		*"*	*200*		*94.9*	*60-130*			
Surrogate: Pyrene-d10	*190*		*"*	*200*		*95.6*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*210*		*"*	*200*		*106*	*60-130*			

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CTEH
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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 B5D2915 - EPA 3550B										
Blank (B5D2915-BLK1)					Prepared: 04/29/2025 Analyzed: 04/29/2025					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	*23*		"	*24.9*		*91.0*	*50-150*			
LCS (B5D2915-BS1)					Prepared: 04/29/2025 Analyzed: 04/29/2025					
Diesel (C10-C28)	841	50.0	mg/kg	1000		84.1	70-130			
Residual Range Organics (C28-C40)	996	200	"	1000		99.6	70-130			
Surrogate: o-Terphenyl	*46*		"	*49.8*		*92.2*	*50-150*			
Matrix Spike (B5D2915-MS1)		**Source: E5D0816-02**			Prepared: 04/29/2025 Analyzed: 04/29/2025					
Diesel (C10-C28)	774	50.0	mg/kg	1000	ND	77.4	70-130			
Residual Range Organics (C28-C40)	911	200	"	1000	ND	91.1	70-130			
Surrogate: o-Terphenyl	*56*		"	*49.8*		*113*	*50-150*			
Matrix Spike Dup (B5D2915-MSD1)		**Source: E5D0816-02**			Prepared: 04/29/2025 Analyzed: 04/29/2025					
Diesel (C10-C28)	829	50.0	mg/kg	1000	ND	82.9	70-130	6.92	35	
Residual Range Organics (C28-C40)	963	200	"	1000	ND	96.3	70-130	5.51	35	
Surrogate: o-Terphenyl	*54*		"	*49.8*		*108*	*50-150*			

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

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5D2908 - EPA 3050B										
Blank (B5D2908-BLK1)					Prepared: 04/29/2025 Analyzed: 04/30/2025					
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 (B5D2908-BS1)					Prepared: 04/29/2025 Analyzed: 04/30/2025					
Arsenic	5.39	0.290	mg/kg	5.00		108	80-120			
Barium	498	82.0	"	500		99.7	80-120			
Cadmium	5.34	0.380	"	5.00		107	80-120			
Copper	53.8	46.0	"	50.0		108	80-120			
Lead	4.98	14.0	"	5.00		99.6	80-120			U
Nickel	5.28	26.0	"	5.00		106	80-120			U
Selenium	5.02	0.260	"	5.00		100	80-120			
Silver	5.19	0.800	"	5.00		104	80-120			
Zinc	52.8	370	"	50.0		106	80-120			U
Matrix Spike (B5D2908-MS1)		**Source: E5D0816-02**			Prepared: 04/29/2025 Analyzed: 04/30/2025					
Arsenic	9.40	0.271	mg/kg	4.68	4.25	110	75-125			
Barium	581	76.7	"	468	121	98.3	75-125			
Cadmium	5.45	0.355	"	4.68	0.303	110	75-125			
Copper	63.2	43.0	"	46.8	12.6	108	75-125			
Lead	15.5	13.1	"	4.68	11.1	93.7	75-125			

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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
Batch B5D2908 - EPA 3050B										
Matrix Spike (B5D2908-MS1)		**Source: E5D0816-02**			Prepared: 04/29/2025 Analyzed: 04/30/2025					
Nickel	15.3	24.3	mg/kg	4.68	10.6	100	75-125			U
Selenium	5.96	0.243	"	4.68	0.854	109	75-125			
Silver	5.07	0.748	"	4.68	0.0521	107	75-125			
Zinc	111	346	"	46.8	63.1	102	75-125			U
Matrix Spike Dup (B5D2908-MSD1)		**Source: E5D0816-02**			Prepared: 04/29/2025 Analyzed: 04/30/2025					
Arsenic	9.55	0.283	mg/kg	4.88	4.25	109	75-125	1.61	20	
Barium	627	80.0	"	488	121	104	75-125	7.64	20	
Cadmium	5.65	0.371	"	4.88	0.303	110	75-125	3.62	20	
Copper	65.7	44.9	"	48.8	12.6	109	75-125	4.01	20	
Lead	16.0	13.7	"	4.88	11.1	100	75-125	3.22	20	
Nickel	15.8	25.4	"	4.88	10.6	108	75-125	3.71	20	U
Selenium	6.10	0.254	"	4.88	0.854	107	75-125	2.28	20	
Silver	5.37	0.781	"	4.88	0.0521	109	75-125	5.62	20	
Zinc	116	361	"	48.8	63.1	108	75-125	4.31	20	U

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

Saturated Paste - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5D2911 - Saturated Paste pH/EC										
Blank (B5D2911-BLK1)					Prepared: 04/29/2025 Analyzed: 05/01/2025					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
Duplicate (B5D2911-DUP1)			**Source: E5D0816-02**		Prepared: 04/29/2025 Analyzed: 05/01/2025					
Specific Conductance (EC)	4.48	0.00500	mmhos/cm		3.98			11.8	25	
pH	8.41		pH Units		8.56			1.77	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
Batch B5D2912 - EPA 5030 (soil)										
Blank (B5D2912-BLK1)					Prepared: 04/29/2025 Analyzed: 04/29/2025					
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	*0.11*		"	*0.125*		*87.5*	*70-130*			
Surrogate: Toluene-d8	*0.12*		"	*0.125*		*98.6*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.12*		"	*0.125*		*98.6*	*70-130*			
LCS (B5D2912-BS1)					Prepared: 04/29/2025 Analyzed: 04/29/2025					
1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100		111	70-130			
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Benzene	0.0984	0.00200	"	0.100		98.4	70-130			
Ethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Naphthalene	0.0897	0.00380	"	0.100		89.7	70-130			
Toluene	0.0961	0.00200	"	0.100		96.1	70-130			
o-Xylene	0.105	0.00200	"	0.100		105	70-130			
m,p-Xylene	0.207	0.00400	"	0.200		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.12*		"	*0.125*		*92.7*	*70-130*			
Surrogate: Toluene-d8	*0.12*		"	*0.125*		*95.4*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.12*		"	*0.125*		*93.2*	*70-130*			
Matrix Spike (B5D2912-MS1)		**Source: E5D0816-02**			Prepared: 04/29/2025 Analyzed: 04/29/2025					
1,2,4-Trimethylbenzene	0.0693	0.00200	mg/kg	0.100	ND	69.3	70-130			QR-02

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North Little Rock AR 72118

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5D2912 - EPA 5030 (soil)										
Matrix Spike (B5D2912-MS1)		**Source: E5D0816-02**			Prepared: 04/29/2025 Analyzed: 04/29/2025					
1,3,5-Trimethylbenzene	0.0721	0.00200	mg/kg	0.100	ND	72.1	70-130			
Benzene	0.0740	0.00200	"	0.100	ND	74.0	70-130			
Ethylbenzene	0.0812	0.00200	"	0.100	ND	81.2	70-130			
Naphthalene	0.0247	0.00380	"	0.100	ND	24.7	70-130			QR-02
Toluene	0.0693	0.00200	"	0.100	ND	69.3	70-130			QR-02
o-Xylene	0.0800	0.00200	"	0.100	ND	80.0	70-130			
m,p-Xylene	0.161	0.00400	"	0.200	ND	80.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.13*		"	*0.125*		*106*	*70-130*			
Surrogate: Toluene-d8	*0.12*		"	*0.125*		*97.4*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.13*		"	*0.125*		*107*	*70-130*			
Matrix Spike Dup (B5D2912-MSD1)		**Source: E5D0816-02**			Prepared: 04/29/2025 Analyzed: 04/30/2025					
1,2,4-Trimethylbenzene	0.122	0.00200	mg/kg	0.100	ND	122	70-130	54.9	20	QR-02
1,3,5-Trimethylbenzene	0.122	0.00200	"	0.100	ND	122	70-130	51.3	20	QR-02
Benzene	0.0991	0.00200	"	0.100	ND	99.1	70-130	29.0	20	QR-02
Ethylbenzene	0.132	0.00200	"	0.100	ND	132	70-130	47.4	20	QM-07
Naphthalene	0.0653	0.00380	"	0.100	ND	65.3	70-130	90.3	20	QM-07
Toluene	0.101	0.00200	"	0.100	ND	101	70-130	37.6	20	QR-02
o-Xylene	0.135	0.00200	"	0.100	ND	135	70-130	51.1	20	QM-07
m,p-Xylene	0.266	0.00400	"	0.200	ND	133	70-130	49.6	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	*0.12*		"	*0.125*		*93.4*	*70-130*			
Surrogate: Toluene-d8	*0.13*		"	*0.125*		*103*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.14*		"	*0.125*		*109*	*70-130*			

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

Notes and Definitions

U Sample is Non-Detect.

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

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory

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