ORIGINS LABORATORY

CTEH

Kyle Lawrence

5120 North Shore Drive

North Little RockAR 72118

June 05, 2025

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

Attached are your analytical results for PROJ-054017 received by Origins Laboratory May 11, 2025. This project is associated with Origins project number E5E0383-01.

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
GACO0509T017S001	E5E0383-01	Soil	May 9, 2025 13:15	05/11/2025 08:00

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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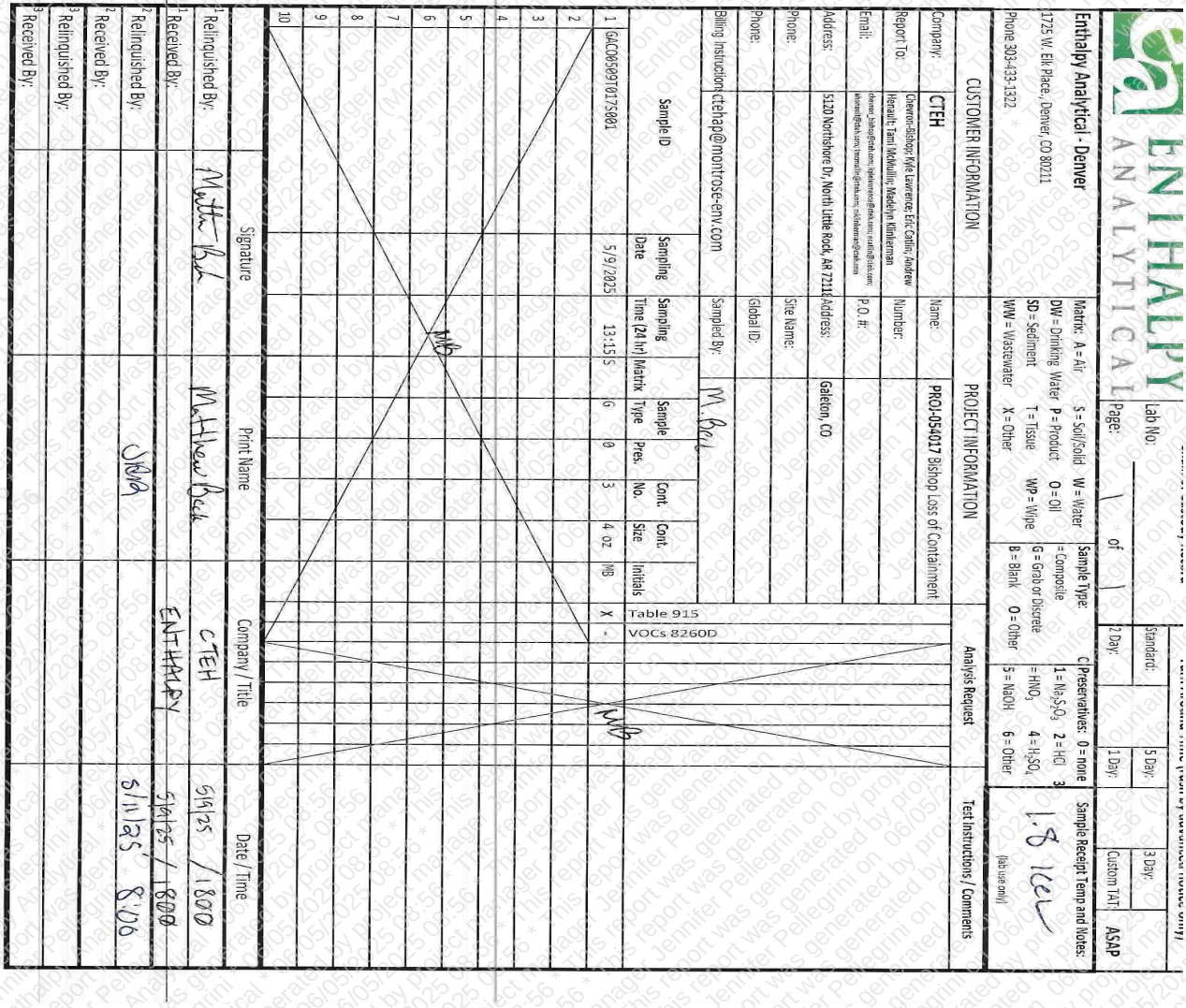

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CTEH
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Project Number: PROJ-054017
Project: PROJ-054017

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: ESE0383

Client: CTEH
Client Project ID: PROJ-054017

Checklist Completed by: JAB / JKAR
Date/time completed: 5 / 11 / 25

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

Matrix(s) Received: (Check all that apply): 9 Soil/Solid _____ Water _____ Other: _____
(Describe)

Cooler Number/Temperature: 1 / 1.8 °c

Thermometer ID: T007

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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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.*

JAB — Reviewed by (Project Manager)
5 / 11 / 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

GACO0509T017S001
5/9/2025 1:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0383-01 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.790		0.100	mg/L	1	B5E1217	05/12/2025	05/13/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.260	mg/kg	1	B5E1223	05/12/2025	05/30/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E1202	05/12/2025	05/13/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	*84.8 %*			*50-150*		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E1101	05/11/2025	05/11/2025	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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GACO0509T017S001
5/9/2025 1:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0383-01 (Soil)									
Origins Laboratory									
GBTEX+TMBs by 8260D									
Surrogate: 1,2-Dichloroethane-d4	*108 %*			*70-130*		*B5E1101*	*05/11/2025*	*05/11/2025*	
Surrogate: Toluene-d8	*100 %*			*70-130*		*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene	*95.9 %*			*70-130*		*"*	*"*	*"*	
Metals by Saturated Paste by EPA 6010									
Calcium	4.93		0.499	meq/L	10	[CALC]	05/12/2025	05/13/2025	
Magnesium	1.15		0.823	"	"	"	"	"	
Sodium	1.01		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E1227	05/12/2025	05/12/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

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5/9/2025 1:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0383-01 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Fluoranthene	ND		0.020	mg/kg	1	B5E1227	05/12/2025	05/12/2025	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	*97.6 %*			*60-130*		"	"	"	
Surrogate: Anthracene-d10	*102 %*			*60-130*		"	"	"	
Surrogate: Pyrene-d10	*105 %*			*60-130*		"	"	"	
Surrogate: Benzo (a) pyrene-d12	*107 %*			*60-130*		"	"	"	
pH in Soil by 9045D									
pH	8.16			pH Units	1	B5E1229	05/12/2025	05/13/2025	
SAR by 20B Saturated Paste									
SAR	0.580		0.0100	SAR	1	B5E1212	05/12/2025	05/13/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.864		0.00500	mmhos/cm	1	B5E1229	05/12/2025	05/13/2025	
Table 915 metals by EPA 6020B									

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GACO0509T017S001
5/9/2025 1:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E0383-01 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	3.04		0.275	mg/kg	10	B5E1207	05/12/2025	05/13/2025	
Barium	ND		77.8	"	"	"	"	"	U
Cadmium	ND		0.361	"	"	"	"	"	U
Copper	ND		43.7	"	"	"	"	"	U
Lead	ND		13.3	"	"	"	"	"	U
Nickel	ND		24.7	"	"	"	"	"	U
Selenium	0.280		0.247	"	"	"	"	"	
Silver	ND		0.759	"	"	"	"	"	U
Zinc	ND		351	"	"	"	"	"	U

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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 B5E1223 - EPA 3060A										
Blank (B5E1223-BLK1)					Prepared: 05/12/2025 Analyzed: 06/03/2025					
Hexavalent Chromium	ND	0.250	mg/kg							U
LCS (B5E1223-BS1)					Prepared: 05/12/2025 Analyzed: 05/30/2025					
Hexavalent Chromium	2.57	0.250	mg/kg	2.50		103	80-120			
Matrix Spike (B5E1223-MS1)		**Source: E5E0375-07**			Prepared: 05/12/2025 Analyzed: 05/30/2025					
Hexavalent Chromium	2.08	0.251	mg/kg	2.51	0.106	78.7	75-125			
Matrix Spike (B5E1223-MS2)		**Source: E5E0375-07**			Prepared: 05/12/2025 Analyzed: 05/30/2025					**QM-07**
Hexavalent Chromium	207	24.7	mg/kg	281	ND	73.5	75-125			
Matrix Spike Dup (B5E1223-MSD1)		**Source: E5E0375-07**			Prepared: 05/12/2025 Analyzed: 05/30/2025					
Hexavalent Chromium	2.07	0.260	mg/kg	2.60	0.106	75.5	75-125	0.573	200	
Post Spike (B5E1223-PS1)		**Source: E5E0375-07**			Prepared: 05/12/2025 Analyzed: 05/30/2025					
Hexavalent Chromium	54.9		ug/L	50.0	2.03	106	80-120			

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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
Batch B5E1212 - Saturated Paste Metals										
Blank (B5E1212-BLK1)					Prepared: 05/12/2025 Analyzed: 05/13/2025					
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 (B5E1212-DUP1)		**Source: E5E0375-01**			Prepared: 05/12/2025 Analyzed: 05/13/2025					
Calcium PPM	43.6	10.0	mg/L		47.4			8.40	50	
SAR	ND	0.0100	SAR		0.432				200	U
Magnesium PPM	20.4	10.0	mg/L		21.9			6.95	50	
Sodium PPM	14.0	10.0	"		14.4			2.11	50	
Batch B5E1217 - DTPA Sorbitol Preparation										
Blank (B5E1217-BLK1)					Prepared: 05/12/2025 Analyzed: 05/13/2025					
Boron	ND	0.100	mg/L							U
Duplicate (B5E1217-DUP1)		**Source: E5E0375-07**			Prepared: 05/12/2025 Analyzed: 05/13/2025					
Boron	0.280	0.100	mg/L		0.261			7.01	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 B5E1227 - EPA 3580										
Blank (B5E1227-BLK1)				Prepared: 05/12/2025 Analyzed: 05/12/2025						
1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	*200*		*ug/kg*	*200*		*98.9*	*60-130*			
Surrogate: Anthracene-d10	*210*		*"*	*200*		*103*	*60-130*			
Surrogate: Pyrene-d10	*210*		*"*	*200*		*107*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*210*		*"*	*200*		*107*	*60-130*			
LCS (B5E1227-BS1)				Prepared: 05/12/2025 Analyzed: 05/12/2025						
1-Methylnaphthalene	0.201	0.002	mg/kg	0.200		101	70-130			
2-Methylnaphthalene	0.201	0.002	"	0.200		100	70-130			
Acenaphthene	0.220	0.020	"	0.200		110	70-130			
Anthracene	0.222	0.020	"	0.200		111	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 B5E1227 - EPA 3580										
LCS (B5E1227-BS1)						Prepared: 05/12/2025 Analyzed: 05/12/2025				
Benzo (a) anthracene	0.235	0.005	mg/kg	0.200		118	70-130			
Benzo (a) pyrene	0.246	0.020	"	0.200		123	70-130			
Benzo (b) fluoranthene	0.231	0.020	"	0.200		115	70-130			
Benzo (g,h,i) perylene	0.228	0.020	"	0.200		114	70-130			
Benzo (k) fluoranthene	0.230	0.020	"	0.200		115	70-130			
Chrysene	0.230	0.020	"	0.200		115	70-130			
Dibenz (a,h) anthracene	0.228	0.020	"	0.200		114	70-130			
Fluoranthene	0.238	0.020	"	0.200		119	70-130			
Fluorene	0.208	0.020	"	0.200		104	70-130			
Indeno (1,2,3-cd) pyrene	0.242	0.020	"	0.200		121	70-130			
Naphthalene	0.209	0.002	"	0.200		104	70-130			
Phenanthrene	0.218	0.020	"	0.200		109	70-130			
Pyrene	0.240	0.020	"	0.200		120	70-130			
Surrogate: Fluorene-d10	*200*		*ug/kg*	*200*		*99.5*	*60-130*			
Surrogate: Anthracene-d10	*210*		*"*	*200*		*103*	*60-130*			
Surrogate: Pyrene-d10	*210*		*"*	*200*		*107*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*220*		*"*	*200*		*108*	*60-130*			
Matrix Spike (B5E1227-MS1)		**Source: E5E0386-04**				Prepared: 05/12/2025 Analyzed: 05/12/2025				
1-Methylnaphthalene	0.198	0.002	mg/kg	0.200	ND	99.2	70-130			
2-Methylnaphthalene	0.192	0.002	"	0.200	ND	95.9	70-130			
Acenaphthene	0.212	0.020	"	0.200	0.0003	106	70-130			
Anthracene	0.204	0.020	"	0.200	0.001	101	70-130			
Benzo (a) anthracene	0.228	0.005	"	0.200	ND	114	70-130			
Benzo (a) pyrene	0.245	0.020	"	0.200	ND	123	70-130			
Benzo (b) fluoranthene	0.222	0.020	"	0.200	ND	111	70-130			
Benzo (g,h,i) perylene	0.221	0.020	"	0.200	ND	111	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
Batch B5E1227 - EPA 3580										
Matrix Spike (B5E1227-MS1)		**Source: E5E0386-04**			Prepared: 05/12/2025 Analyzed: 05/12/2025					
Benzo (k) fluoranthene	0.216	0.020	mg/kg	0.200	ND	108	70-130			
Chrysene	0.212	0.020	"	0.200	0.0005	106	70-130			
Dibenz (a,h) anthracene	0.224	0.020	"	0.200	ND	112	70-130			
Fluoranthene	0.220	0.020	"	0.200	0.0004	110	70-130			
Fluorene	0.198	0.020	"	0.200	0.0002	98.8	70-130			
Indeno (1,2,3-cd) pyrene	0.232	0.020	"	0.200	ND	116	70-130			
Naphthalene	0.205	0.002	"	0.200	ND	102	70-130			
Phenanthrene	0.210	0.020	"	0.200	ND	105	70-130			
Pyrene	0.222	0.020	"	0.200	ND	111	70-130			
Surrogate: Fluorene-d10	*200*		*ug/kg*	*200*		*99.2*	*60-130*			
Surrogate: Anthracene-d10	*210*		*"*	*200*		*103*	*60-130*			
Surrogate: Pyrene-d10	*210*		*"*	*200*		*104*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*220*		*"*	*200*		*111*	*60-130*			
Matrix Spike Dup (B5E1227-MSD1)		**Source: E5E0386-04**			Prepared: 05/12/2025 Analyzed: 05/12/2025					
1-Methylnaphthalene	0.197	0.002	mg/kg	0.200	ND	98.6	70-130	0.607	20	
2-Methylnaphthalene	0.190	0.002	"	0.200	ND	95.2	70-130	0.715	20	
Acenaphthene	0.210	0.020	"	0.200	0.0003	105	70-130	0.662	20	
Anthracene	0.203	0.020	"	0.200	0.001	101	70-130	0.326	20	
Benzo (a) anthracene	0.224	0.005	"	0.200	ND	112	70-130	1.81	20	
Benzo (a) pyrene	0.230	0.020	"	0.200	ND	115	70-130	6.24	20	
Benzo (b) fluoranthene	0.218	0.020	"	0.200	ND	109	70-130	1.64	20	
Benzo (g,h,i) perylene	0.219	0.020	"	0.200	ND	109	70-130	1.22	20	
Benzo (k) fluoranthene	0.216	0.020	"	0.200	ND	108	70-130	0.310	20	
Chrysene	0.216	0.020	"	0.200	0.0005	108	70-130	1.94	20	
Dibenz (a,h) anthracene	0.222	0.020	"	0.200	ND	111	70-130	1.07	20	
Fluoranthene	0.221	0.020	"	0.200	0.0004	110	70-130	0.132	20	

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

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 B5E1227 - EPA 3580										
Matrix Spike Dup (B5E1227-MSD1)		**Source: E5E0386-04**			Prepared: 05/12/2025 Analyzed: 05/12/2025					
Fluorene	0.199	0.020	mg/kg	0.200	0.0002	99.3	70-130	0.468	20	
Indeno (1,2,3-cd) pyrene	0.227	0.020	"	0.200	ND	113	70-130	2.16	20	
Naphthalene	0.197	0.002	"	0.200	ND	98.4	70-130	3.82	20	
Phenanthrene	0.209	0.020	"	0.200	ND	105	70-130	0.191	20	
Pyrene	0.220	0.020	"	0.200	ND	110	70-130	1.08	20	
Surrogate: Fluorene-d10	*200*		*ug/kg*	*200*		*99.2*	*60-130*			
Surrogate: Anthracene-d10	*210*		*"*	*200*		*103*	*60-130*			
Surrogate: Pyrene-d10	*210*		*"*	*200*		*103*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*220*		*"*	*200*		*109*	*60-130*			

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

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 B5E1202 - EPA 3550B										
Blank (B5E1202-BLK1)					Prepared: 05/12/2025 Analyzed: 05/12/2025					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	*21*		"	*24.9*		*84.1*	*50-150*			
LCS (B5E1202-BS1)					Prepared: 05/12/2025 Analyzed: 05/12/2025					
Diesel (C10-C28)	1110	50.0	mg/kg	1000		111	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000		105	70-130			
Surrogate: o-Terphenyl	*52*		"	*49.8*		*105*	*50-150*			
Matrix Spike (B5E1202-MS1)		**Source: E5E0386-04**			Prepared: 05/12/2025 Analyzed: 05/12/2025					
Diesel (C10-C28)	1180	50.0	mg/kg	1000	ND	118	70-130			
Residual Range Organics (C28-C40)	1110	200	"	1000	ND	111	70-130			
Surrogate: o-Terphenyl	*49*		"	*49.8*		*99.3*	*50-150*			
Matrix Spike Dup (B5E1202-MSD1)		**Source: E5E0386-04**			Prepared: 05/12/2025 Analyzed: 05/12/2025					
Diesel (C10-C28)	1220	50.0	mg/kg	1000	ND	122	70-130	4.01	35	
Residual Range Organics (C28-C40)	1140	200	"	1000	ND	114	70-130	2.08	35	
Surrogate: o-Terphenyl	*40*		"	*49.8*		*79.8*	*50-150*			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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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
Batch B5E1207 - EPA 3050B										
Blank (B5E1207-BLK1)				Prepared: 05/12/2025 Analyzed: 05/13/2025						
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 (B5E1207-BS1)				Prepared: 05/12/2025 Analyzed: 05/13/2025						
Arsenic	5.24	0.290	mg/kg	5.00		105	80-120			
Barium	565	82.0	"	500		113	80-120			
Cadmium	5.53	0.380	"	5.00		111	80-120			
Copper	53.9	46.0	"	50.0		108	80-120			
Lead	5.67	14.0	"	5.00		113	80-120			U
Nickel	5.34	26.0	"	5.00		107	80-120			U
Selenium	5.31	0.260	"	5.00		106	80-120			
Silver	5.56	0.800	"	5.00		111	80-120			
Zinc	54.6	370	"	50.0		109	80-120			U
Matrix Spike (B5E1207-MS1)		**Source: E5E0384-01**		Prepared: 05/12/2025 Analyzed: 05/13/2025						
Arsenic	8.98	0.267	mg/kg	4.60	3.96	109	75-125			
Barium	597	75.4	"	460	77.6	113	75-125			
Cadmium	5.27	0.349	"	4.60	0.202	110	75-125			
Copper	64.4	42.3	"	46.0	13.6	110	75-125			
Lead	14.3	12.9	"	4.60	8.28	131	75-125			QM-07

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5E1207 - EPA 3050B										
Matrix Spike (B5E1207-MS1)		**Source: E5E0384-01**			Prepared: 05/12/2025 Analyzed: 05/13/2025					
Nickel	13.4	23.9	mg/kg	4.60	7.91	118	75-125			U
Selenium	4.81	0.239	"	4.60	0.253	99.1	75-125			
Silver	5.18	0.735	"	4.60	0.0581	111	75-125			
Zinc	102	340	"	46.0	52.3	107	75-125			U
Matrix Spike Dup (B5E1207-MSD1)		**Source: E5E0384-01**			Prepared: 05/12/2025 Analyzed: 05/13/2025					
Arsenic	8.12	0.254	mg/kg	4.38	3.96	95.0	75-125	10.1	20	
Barium	551	71.9	"	438	77.6	108	75-125	8.12	20	
Cadmium	4.84	0.333	"	4.38	0.202	106	75-125	8.64	20	
Copper	60.3	40.3	"	43.8	13.6	106	75-125	6.57	20	
Lead	12.9	12.3	"	4.38	8.28	105	75-125	10.4	20	
Nickel	11.9	22.8	"	4.38	7.91	92.1	75-125	11.1	20	U
Selenium	4.64	0.228	"	4.38	0.253	100	75-125	3.50	20	
Silver	4.67	0.701	"	4.38	0.0581	105	75-125	10.4	20	
Zinc	94.9	324	"	43.8	52.3	97.1	75-125	6.94	20	U

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CTEH
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North Little Rock AR 72118

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

Saturated Paste - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5E1229 - Saturated Paste pH/EC										
Blank (B5E1229-BLK1)					Prepared: 05/12/2025 Analyzed: 05/13/2025					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
Duplicate (B5E1229-DUP1)			**Source: E5E0375-01**		Prepared: 05/12/2025 Analyzed: 05/13/2025					
pH	7.96		pH Units		7.90			0.757	25	
Specific Conductance (EC)	0.728	0.00500	mmhos/cm		0.737			1.23	25	

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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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
Batch B5E1101 - EPA 5030 (soil)										
Blank (B5E1101-BLK1)					Prepared: 05/11/2025 Analyzed: 05/11/2025					
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*		*103*	*70-130*			
Surrogate: Toluene-d8	*0.13*		"	*0.125*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.12*		"	*0.125*		*93.3*	*70-130*			
LCS (B5E1101-BS1)					Prepared: 05/11/2025 Analyzed: 05/11/2025					
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Benzene	0.0877	0.00200	"	0.100		87.7	70-130			
Ethylbenzene	0.100	0.00200	"	0.100		100	70-130			
Naphthalene	0.107	0.00380	"	0.100		107	70-130			
Toluene	0.0946	0.00200	"	0.100		94.6	70-130			
o-Xylene	0.100	0.00200	"	0.100		100	70-130			
m,p-Xylene	0.203	0.00400	"	0.200		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.13*		"	*0.125*		*103*	*70-130*			
Surrogate: Toluene-d8	*0.13*		"	*0.125*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.13*		"	*0.125*		*102*	*70-130*			
Matrix Spike (B5E1101-MS1)		**Source: E5E0374-01**			Prepared: 05/11/2025 Analyzed: 05/11/2025					
1,2,4-Trimethylbenzene	0.0969	0.00200	mg/kg	0.100	ND	96.9	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
Batch B5E1101 - EPA 5030 (soil)										
Matrix Spike (B5E1101-MS1)		**Source: E5E0374-01**			Prepared: 05/11/2025 Analyzed: 05/11/2025					
1,3,5-Trimethylbenzene	0.0981	0.00200	mg/kg	0.100	ND	98.1	70-130			
Benzene	0.0827	0.00200	"	0.100	ND	82.7	70-130			
Ethylbenzene	0.0951	0.00200	"	0.100	ND	95.1	70-130			
Naphthalene	0.0969	0.00380	"	0.100	ND	96.9	70-130			
Toluene	0.0903	0.00200	"	0.100	ND	90.3	70-130			
o-Xylene	0.0974	0.00200	"	0.100	ND	97.4	70-130			
m,p-Xylene	0.193	0.00400	"	0.200	ND	96.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.14*		"	*0.125*		*108*	*70-130*			
Surrogate: Toluene-d8	*0.13*		"	*0.125*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.13*		"	*0.125*		*106*	*70-130*			
Matrix Spike Dup (B5E1101-MSD1)		**Source: E5E0374-01**			Prepared: 05/11/2025 Analyzed: 05/11/2025					
1,2,4-Trimethylbenzene	0.0840	0.00200	mg/kg	0.100	ND	84.0	70-130	14.3	20	
1,3,5-Trimethylbenzene	0.0831	0.00200	"	0.100	ND	83.1	70-130	16.6	20	
Benzene	0.0801	0.00200	"	0.100	ND	80.1	70-130	3.17	20	
Ethylbenzene	0.0855	0.00200	"	0.100	ND	85.5	70-130	10.7	20	
Naphthalene	0.0866	0.00380	"	0.100	ND	86.6	70-130	11.3	20	
Toluene	0.0842	0.00200	"	0.100	ND	84.2	70-130	7.02	20	
o-Xylene	0.0871	0.00200	"	0.100	ND	87.1	70-130	11.1	20	
m,p-Xylene	0.173	0.00400	"	0.200	ND	86.6	70-130	10.7	20	
Surrogate: 1,2-Dichloroethane-d4	*0.14*		"	*0.125*		*111*	*70-130*			
Surrogate: Toluene-d8	*0.12*		"	*0.125*		*99.4*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.13*		"	*0.125*		*107*	*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

Notes and Definitions

U Sample is Non-Detect.

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

Jen Pellegrini For Jordan A. Bynon, Project Manager

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