



CTEH

Kyle Lawrence

5120 North Shore Drive

North Little Rock AR 72118

May 09, 2025

Project Name - Bishop Loss of Containment Project Number - PROJ-054017

Attached are your analytical results for Bishop Loss of Containment received by Origins Laboratory April 29, 2025. This project is associated with Origins project number E5D0855-01.

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





CTEH

5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GACO0429T069S033	E5D0855-01	Soil	April 29, 2025 9:55	04/29/2025 20:15
GACO0429T069S034	E5D0855-02	Soil	April 29, 2025 10:15	04/29/2025 20:15
GACO0429T069S035	E5D0855-03	Soil	April 29, 2025 10:37	04/29/2025 20:15
GACO0429T069S036	E5D0855-04	Soil	April 29, 2025 10:55	04/29/2025 20:15
GACO0429T069S037	E5D0855-05	Soil	April 29, 2025 11:15	04/29/2025 20:15
GACO0429T069T001	E5D0855-06	Water	April 29, 2025 12:15	04/29/2025 20:15

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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ORIGINS LABORATORY

CTEH
5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence
Project Number: PROJ-054017
Project: Bishop Loss of Containment

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

Sample Receipt Checklist

Origins Work Order: ESD0855 Client: CTEH
 Checklist Completed by: SMC/NKM Shipped Via: HD
 Date/time completed: 4/30/25 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1/2.0 °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⁾ ?	<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 HNO3, HCl, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			NC
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



Jen Pellegrini For Jordan A. Bynon, Project Manager

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North Little Rock AR 72118

Kyle Lawrence
Project Number: PROJ-054017
Project: Bishop Loss of Containment

GACO0429T069S033
4/29/2025 9:55:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0855-01 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.71		0.0995	mg/L	1	B5D3014	04/30/2025	05/02/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.258	mg/kg	1	B5D3007	04/30/2025	05/09/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D3033	04/30/2025	04/30/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: <i>o</i> -Terphenyl	72.6 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D3027	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

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

GACO0429T069S033

4/29/2025 9:55:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0855-01 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	101 %			70-130		B5D3027	04/30/2025	04/30/2025	
Surrogate: Toluene-d8	97.4 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	109 %			70-130		"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	0.003		0.002	mg/kg	1	B5D3036	04/30/2025	05/01/2025	
2-Methylnaphthalene	0.007		0.002	"	"	"	"	"	
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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Jen Pellegrini For Jordan A. Bynon, Project Manager

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4/29/2025 9:55:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0855-01 (Soil)
Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Surrogate: Fluorene-d10	100 %			60-130		B5D3036	04/30/2025	05/01/2025	
Surrogate: Anthracene-d10	95.2 %			60-130		"	"	"	
Surrogate: Pyrene-d10	96.3 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	107 %			60-130		"	"	"	

pH in Soil by 9045D

pH	7.88			pH Units	1	B5D3018	04/30/2025	05/01/2025	
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SAR by 20B Saturated Paste

SAR	1.51		0.0100	SAR	1	B5D3010	04/30/2025	05/05/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.80		0.00500	mmhos/cm	1	B5D3018	04/30/2025	05/01/2025	
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Table 915 metals by EPA 6020B

Arsenic	2.91		0.264	mg/kg	10	B5D3024	"	05/01/2025	
Barium	80.4		74.7	"	"	"	"	"	
Cadmium	ND		0.346	"	"	"	"	"	U
Copper	ND		41.9	"	"	"	"	"	U
Lead	ND		12.8	"	"	"	"	"	U
Nickel	ND		23.7	"	"	"	"	"	U

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GACO0429T069S033

4/29/2025 9:55:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0855-01 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Selenium	1.26		0.237	mg/kg	10	B5D3024	04/30/2025	05/01/2025	
Silver	ND		0.729	"	"	"	"	"	U
Zinc	ND		337	"	"	"	"	"	U

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5120 North Shore Drive
North Little Rock AR 72118

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Project Number: PROJ-054017
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GACO0429T069S034
4/29/2025 10:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0855-02 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.590		0.0999	mg/L	1	B5D3014	04/30/2025	05/02/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.257	mg/kg	1	B5D3007	04/30/2025	05/09/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D3033	04/30/2025	04/30/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: <i>o</i> -Terphenyl	76.4 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D3027	04/30/2025	05/01/2025	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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Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

GACO0429T069S034

4/29/2025 10:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0855-02 (Soil)									
Origins Laboratory									
GBTEX+TMBs by 8260D									
Surrogate: 1,2-Dichloroethane-d4	124 %			70-130		B5D3027	04/30/2025	05/01/2025	
Surrogate: Toluene-d8	98.7 %			70-130		"	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %			70-130		"	"	"	"
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5D3036	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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GACO0429T069S034
4/29/2025 10:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0855-02 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Surrogate: Fluorene-d10	102 %			60-130		B5D3036	04/30/2025	05/01/2025	
Surrogate: Anthracene-d10	92.1 %			60-130		"	"	"	
Surrogate: Pyrene-d10	94.3 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	7.97			pH Units	1	B5D3018	04/30/2025	05/01/2025	
SAR by 20B Saturated Paste									
SAR	1.82		0.0100	SAR	1	B5D3010	04/30/2025	05/05/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	2.60		0.00500	mmhos/cm	1	B5D3018	04/30/2025	05/01/2025	
Table 915 metals by EPA 6020B									
Arsenic	3.01		0.251	mg/kg	10	B5D3024	"	05/01/2025	
Barium	ND		70.9	"	"	"	"	"	U
Cadmium	ND		0.328	"	"	"	"	"	U
Copper	ND		39.8	"	"	"	"	"	U
Lead	ND		12.1	"	"	"	"	"	U

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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CTEH

5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

GACO0429T069S034

4/29/2025 10:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0855-02 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Nickel	ND		22.5	mg/kg	10	B5D3024	04/30/2025	05/01/2025	U
Selenium	ND		0.225	"	"	"	"	"	U
Silver	ND		0.691	"	"	"	"	"	U
Zinc	ND		320	"	"	"	"	"	U

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5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017
Project: Bishop Loss of Containment

GACO0429T069S035
4/29/2025 10:37:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0855-03 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.05		0.0999	mg/L	1	B5D3014	04/30/2025	05/02/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.239	mg/kg	1	B5D3007	04/30/2025	05/09/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D3033	04/30/2025	04/30/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: <i>o</i> -Terphenyl	76.9 %			50-150	"	"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D3027	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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Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

GACO0429T069S035

4/29/2025 10:37:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0855-03 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	92.1 %			70-130		B5D3027	04/30/2025	04/30/2025	
Surrogate: Toluene-d8	98.0 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.3 %			70-130		"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5D3036	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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Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0855-03 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Surrogate: Fluorene-d10	102 %			60-130		B5D3036	04/30/2025	05/01/2025	
Surrogate: Anthracene-d10	92.5 %			60-130		"	"	"	
Surrogate: Pyrene-d10	95.1 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	7.98			pH Units	1	B5D3018	04/30/2025	05/01/2025	
SAR by 20B Saturated Paste									
SAR	2.48		0.0100	SAR	1	B5D3010	04/30/2025	05/05/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	4.16		0.00500	mmhos/cm	1	B5D3018	04/30/2025	05/01/2025	
Table 915 metals by EPA 6020B									
Arsenic	2.79		0.257	mg/kg	10	B5D3024	"	05/01/2025	
Barium	95.3		72.5	"	"	"	"	"	
Cadmium	ND		0.336	"	"	"	"	"	U
Copper	ND		40.7	"	"	"	"	"	U
Lead	ND		12.4	"	"	"	"	"	U
Nickel	ND		23.0	"	"	"	"	"	U

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: Bishop Loss of Containment

GACO0429T069S035

4/29/2025 10:37:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0855-03 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Selenium	0.488		0.230	mg/kg	10	B5D3024	04/30/2025	05/01/2025	
Silver	ND		0.708	"	"	"	"	"	U
Zinc	ND		327	"	"	"	"	"	U

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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CTEH

5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017
Project: Bishop Loss of Containment

GACO0429T069S036
4/29/2025 10:55:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0855-04 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.942		0.100	mg/L	1	B5D3014	04/30/2025	05/02/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.257	mg/kg	1	B5D3007	04/30/2025	05/09/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D3033	04/30/2025	04/30/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: <i>o</i> -Terphenyl	78.3 %			50-150	"	"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D3027	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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Jen Pellegrini For Jordan A. Bynon, Project Manager

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5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

GACO0429T069S036
4/29/2025 10:55:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0855-04 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	89.9 %			70-130		B5D3027	04/30/2025	04/30/2025	
Surrogate: Toluene-d8	95.1 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5D3036	04/30/2025	05/01/2025	U
2-Methylnaphthalene	0.003		0.002	"	"	"	"	"	
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	0.002		0.002	"	"	"	"	"	
Pyrene	ND		0.020	"	"	"	"	"	U

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

GACO0429T069S036
4/29/2025 10:55:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0855-04 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Surrogate: Fluorene-d10	100 %			60-130		B5D3036	04/30/2025	05/01/2025	
Surrogate: Anthracene-d10	93.0 %			60-130		"	"	"	
Surrogate: Pyrene-d10	96.4 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	8.15			pH Units	1	B5D3018	04/30/2025	05/01/2025	
SAR by 20B Saturated Paste									
SAR	2.95		0.0100	SAR	1	B5D3010	04/30/2025	05/05/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	2.88		0.00500	mmhos/cm	1	B5D3018	04/30/2025	05/01/2025	
Table 915 metals by EPA 6020B									
Arsenic	13.8		0.281	mg/kg	10	B5D3024	"	05/01/2025	
Barium	96.8		79.4	"	"	"	"	"	
Cadmium	0.424		0.368	"	"	"	"	"	
Copper	ND		44.6	"	"	"	"	"	U
Lead	ND		13.6	"	"	"	"	"	U
Nickel	ND		25.2	"	"	"	"	"	U

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

GACO0429T069S036

4/29/2025 10:55:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0855-04 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Selenium	0.672		0.252	mg/kg	10	B5D3024	04/30/2025	05/01/2025	
Silver	ND		0.775	"	"	"	"	"	U
Zinc	ND		358	"	"	"	"	"	U

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

GACO0429T069S037
4/29/2025 11:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0855-05 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.912		0.0998	mg/L	1	B5D3014	04/30/2025	05/02/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.262	mg/kg	1	B5D3007	04/30/2025	05/09/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D3033	04/30/2025	04/30/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: <i>o</i> -Terphenyl	73.7 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5D3027	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

Origins Laboratory



Jen Pellegrini For Jordan A. Bynon, Project Manager

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5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

GACO0429T069S037

4/29/2025 11:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0855-05 (Soil) Origins Laboratory									
GBTEX+TMBs by 8260D									
Surrogate: 1,2-Dichloroethane-d4	92.0 %			70-130		B5D3027	04/30/2025	04/30/2025	
Surrogate: Toluene-d8	97.6 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %			70-130		"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5D3036	04/30/2025	04/30/2025	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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Jen Pellegrini For Jordan A. Bynon, Project Manager

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5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

GACO0429T069S037
4/29/2025 11:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0855-05 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Surrogate: Fluorene-d10	99.4 %			60-130		B5D3036	04/30/2025	04/30/2025	
Surrogate: Anthracene-d10	93.8 %			60-130		"	"	"	
Surrogate: Pyrene-d10	94.3 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %			60-130		"	"	"	
pH in Soil by 9045D									
pH	7.99			pH Units	1	B5D3018	04/30/2025	05/01/2025	
SAR by 20B Saturated Paste									
SAR	2.94		0.0100	SAR	1	B5D3010	04/30/2025	05/05/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	1.49		0.00500	mmhos/cm	1	B5D3018	04/30/2025	05/01/2025	
Table 915 metals by EPA 6020B									
Arsenic	4.25		0.260	mg/kg	10	B5D3024	"	05/01/2025	
Barium	86.1		73.4	"	"	"	"	"	
Cadmium	ND		0.340	"	"	"	"	"	U
Copper	ND		41.2	"	"	"	"	"	U
Lead	ND		12.5	"	"	"	"	"	U
Nickel	ND		23.3	"	"	"	"	"	U

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Jen Pellegrini For Jordan A. Bynon, Project Manager



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5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

GACO0429T069S037

4/29/2025 11:15:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0855-05 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Selenium	0.270		0.233	mg/kg	10	B5D3024	04/30/2025	05/01/2025	
Silver	ND		0.716	"	"	"	"	"	U
Zinc	ND		331	"	"	"	"	"	U

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

GACO0429T069T001

4/29/2025 12:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0855-06 (Water) Origins Laboratory									
VOC by EPA 8260D									
1,1,1,2-Tetrachloroethane	ND		1.00	ug/L	1	B5D3001	04/30/2025	04/30/2025	U
1,1,1-Trichloroethane	ND		1.00	"	"	"	"	"	U
1,1,2,2-Tetrachloroethane	ND		1.00	"	"	"	"	"	U
1,1,2-Trichloroethane	ND		1.00	"	"	"	"	"	U
1,1-Dichloroethane	ND		1.00	"	"	"	"	"	U
1,1-Dichloroethene	ND		1.00	"	"	"	"	"	U
1,1-Dichloropropene	ND		1.00	"	"	"	"	"	U
1,2,3-Trichlorobenzene	ND		5.00	"	"	"	"	"	U
1,2,3-Trichloropropane	ND		5.00	"	"	"	"	"	U
1,2,4-Trichlorobenzene	ND		5.00	"	"	"	"	"	U
1,2,4-Trimethylbenzene	ND		1.00	"	"	"	"	"	U
1,2-Dibromo-3-chloropropane	ND		5.00	"	"	"	"	"	U
1,2-Dibromoethane (EDB)	ND		1.50	"	"	"	"	"	U
1,2-Dichlorobenzene	ND		1.00	"	"	"	"	"	U
1,2-Dichloroethane	ND		1.00	"	"	"	"	"	U
1,2-Dichloropropane	ND		1.00	"	"	"	"	"	U
1,3,5-Trimethylbenzene	ND		1.00	"	"	"	"	"	U
1,3-Dichlorobenzene	ND		1.00	"	"	"	"	"	U
1,3-Dichloropropane	ND		1.00	"	"	"	"	"	U

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

GACO0429T069T001

4/29/2025 12:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0855-06 (Water) Origins Laboratory									
VOC by EPA 8260D									
1,4-Dichlorobenzene	ND		1.00	ug/L	1	B5D3001	04/30/2025	04/30/2025	U
2,2-Dichloropropane	ND		1.00	"	"	"	"	"	U
2-Butanone	ND		5.00	"	"	"	"	"	U
2-Chlorotoluene	ND		1.00	"	"	"	"	"	U
2-Hexanone	ND		6.00	"	"	"	"	"	U
4-Chlorotoluene	ND		1.00	"	"	"	"	"	U
4-Isopropyltoluene	ND		1.00	"	"	"	"	"	U
4-Methyl-2-pentanone	ND		5.00	"	"	"	"	"	U
Acetone	ND		8.00	"	"	"	"	"	U
Benzene	ND		1.00	"	"	"	"	"	U
Bromobenzene	ND		1.00	"	"	"	"	"	U
Bromochloromethane	ND		1.00	"	"	"	"	"	U
Bromodichloromethane	ND		1.00	"	"	"	"	"	U
Bromoform	ND		1.00	"	"	"	"	"	U
Bromomethane	ND		1.00	"	"	"	"	05/03/2025	U
Carbon disulfide	ND		5.00	"	"	"	"	04/30/2025	U
Carbon tetrachloride	ND		1.00	"	"	"	"	"	U
Chlorobenzene	ND		1.00	"	"	"	"	"	U
Chloroethane	ND		1.00	"	"	"	"	05/03/2025	U

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5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

GACO0429T069T001

4/29/2025 12:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0855-06 (Water)									
Origins Laboratory									
VOC by EPA 8260D									
Chloroform	ND		1.00	ug/L	1	B5D3001	04/30/2025	04/30/2025	U
Chloromethane	ND		1.00	"	"	"	"	05/03/2025	U
cis-1,2-Dichloroethene	ND		1.00	"	"	"	"	04/30/2025	U
cis-1,3-Dichloropropene	ND		1.00	"	"	"	"	"	U
Dibromochloromethane	ND		1.00	"	"	"	"	"	U
Dibromomethane	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Hexachlorobutadiene	ND		5.00	"	"	"	"	05/03/2025	U
Iodomethane	ND		10.0	"	"	"	"	04/30/2025	U
Isopropylbenzene	ND		1.00	"	"	"	"	"	U
m,p-Xylene	ND		2.00	"	"	"	"	"	U
Methylene Chloride	ND		15.0	"	"	"	"	"	U
Methyl tert-Butyl Ether	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		4.00	"	"	"	"	"	U
n-Butylbenzene	ND		1.00	"	"	"	"	"	U
n-Propylbenzene	ND		1.00	"	"	"	"	"	U
o-Xylene	ND		1.00	"	"	"	"	"	U
sec-Butylbenzene	ND		1.00	"	"	"	"	"	U
Styrene	ND		1.00	"	"	"	"	"	U

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence
Project Number: PROJ-054017
Project: Bishop Loss of Containment

GACO0429T069T001
4/29/2025 12:15:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0855-06 (Water)									
Origins Laboratory									
VOC by EPA 8260D									
tert-Butylbenzene	ND		1.00	ug/L	1	B5D3001	04/30/2025	04/30/2025	U
Tetrachloroethene	ND		1.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
trans-1,2-Dichloroethene	ND		1.00	"	"	"	"	"	U
trans-1,3-Dichloropropene	ND		1.00	"	"	"	"	"	U
Trichloroethene	ND		1.00	"	"	"	"	"	U
Trichlorofluoromethane	ND		1.00	"	"	"	"	"	U
Vinyl chloride	ND		1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	104 %				70-130	"	"	"	
Surrogate: Toluene-d8	103 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %				70-130	"	"	"	

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

***** DEFAULT GENERAL METHOD *** - 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 B5D3007 - EPA 3060A

Blank (B5D3007-BLK1)

Prepared: 04/30/2025 Analyzed: 05/09/2025

Hexavalent Chromium ND 0.250 mg/kg

U

LCS (B5D3007-BS1)

Prepared: 04/30/2025 Analyzed: 05/09/2025

Hexavalent Chromium 2.52 0.250 mg/kg 2.50 101 80-120

Matrix Spike (B5D3007-MS1)

Source: E5D0853-01

Prepared: 04/30/2025 Analyzed: 05/09/2025

Hexavalent Chromium 2.26 0.256 mg/kg 2.56 ND 88.0 75-125

Matrix Spike (B5D3007-MS2)

Source: E5D0853-01

Prepared: 04/30/2025 Analyzed: 05/09/2025

Hexavalent Chromium 227 25.6 mg/kg 274 ND 82.8 75-125

Matrix Spike Dup (B5D3007-MSD1)

Source: E5D0853-01

Prepared: 04/30/2025 Analyzed: 05/09/2025

Hexavalent Chromium 2.31 0.250 mg/kg 2.50 ND 92.6 75-125 2.43 200

Post Spike (B5D3007-PS1)

Source: E5D0853-01

Prepared: 04/30/2025 Analyzed: 05/09/2025

Hexavalent Chromium 51.8 ug/L 50.0 0.00 104 80-120

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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: Bishop Loss of Containment

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 B5D3010 - Saturated Paste Metals

Blank (B5D3010-BLK1)

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

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 (B5D3010-DUP1)

Source: E5D0852-11

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

Calcium PPM	157	10.0	mg/L		130			18.7	50	
SAR	ND	0.0100	SAR		9.52				200	U
Magnesium PPM	58.5	10.0	mg/L		50.6			14.5	50	
Sodium PPM	588	10.0	"		505			15.3	50	

Batch B5D3014 - DTPA Sorbitol Preparation

Blank (B5D3014-BLK1)

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

Boron	ND	0.100	mg/L							U
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Duplicate (B5D3014-DUP1)

Source: E5D0852-11

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

Boron	2.57	0.0997	mg/L		2.86			10.4	50	
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5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

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 B5D3036 - EPA 3580

Blank (B5D3036-BLK1)

Prepared: 04/30/2025 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		100	60-130			
Surrogate: Anthracene-d10	190		"	200		93.7	60-130			
Surrogate: Pyrene-d10	190		"	200		94.4	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

LCS (B5D3036-BS1)

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

1-Methylnaphthalene	0.183	0.002	mg/kg	0.200		91.4	70-130			
2-Methylnaphthalene	0.184	0.002	"	0.200		92.1	70-130			
Acenaphthene	0.196	0.020	"	0.200		97.9	70-130			
Anthracene	0.204	0.020	"	0.200		102	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager



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5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

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 B5D3036 - EPA 3580

LCS (B5D3036-BS1)

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

Benzo (a) anthracene	0.204	0.005	mg/kg	0.200		102	70-130			
Benzo (a) pyrene	0.200	0.020	"	0.200		100	70-130			
Benzo (b) fluoranthene	0.231	0.020	"	0.200		116	70-130			
Benzo (g,h,i) perylene	0.200	0.020	"	0.200		100	70-130			
Benzo (k) fluoranthene	0.204	0.020	"	0.200		102	70-130			
Chrysene	0.195	0.020	"	0.200		97.5	70-130			
Dibenz (a,h) anthracene	0.224	0.020	"	0.200		112	70-130			
Fluoranthene	0.192	0.020	"	0.200		96.0	70-130			
Fluorene	0.193	0.020	"	0.200		96.7	70-130			
Indeno (1,2,3-cd) pyrene	0.196	0.020	"	0.200		98.2	70-130			
Naphthalene	0.193	0.002	"	0.200		96.5	70-130			
Phenanthrene	0.200	0.020	"	0.200		99.8	70-130			
Pyrene	0.193	0.020	"	0.200		96.7	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.6	60-130			
Surrogate: Anthracene-d10	190		"	200		96.6	60-130			
Surrogate: Pyrene-d10	190		"	200		94.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike (B5D3036-MS1)

Source: E5D0852-02

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

1-Methylnaphthalene	0.194	0.002	mg/kg	0.200	ND	96.9	70-130			
2-Methylnaphthalene	0.193	0.002	"	0.200	ND	96.7	70-130			
Acenaphthene	0.197	0.020	"	0.200	ND	98.6	70-130			
Anthracene	0.190	0.020	"	0.200	0.001	94.3	70-130			
Benzo (a) anthracene	0.220	0.005	"	0.200	ND	110	70-130			
Benzo (a) pyrene	0.233	0.020	"	0.200	0.003	115	70-130			
Benzo (b) fluoranthene	0.234	0.020	"	0.200	0.002	116	70-130			
Benzo (g,h,i) perylene	0.195	0.020	"	0.200	0.001	96.7	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager



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5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

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 B5D3036 - EPA 3580

Matrix Spike (B5D3036-MS1)

Source: E5D0852-02

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

Benzo (k) fluoranthene	0.214	0.020	mg/kg	0.200	0.0007	107	70-130			
Chrysene	0.210	0.020	"	0.200	0.002	104	70-130			
Dibenz (a,h) anthracene	0.223	0.020	"	0.200	0.0005	111	70-130			
Fluoranthene	0.207	0.020	"	0.200	0.002	102	70-130			
Fluorene	0.201	0.020	"	0.200	ND	100	70-130			
Indeno (1,2,3-cd) pyrene	0.198	0.020	"	0.200	0.001	98.4	70-130			
Naphthalene	0.202	0.002	"	0.200	ND	101	70-130			
Phenanthrene	0.207	0.020	"	0.200	ND	104	70-130			
Pyrene	0.202	0.020	"	0.200	0.001	100	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.8	60-130			
Surrogate: Anthracene-d10	190		"	200		94.3	60-130			
Surrogate: Pyrene-d10	190		"	200		94.1	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

Matrix Spike Dup (B5D3036-MSD1)

Source: E5D0852-02

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

1-Methylnaphthalene	0.194	0.002	mg/kg	0.200	ND	97.0	70-130	0.0984	20	
2-Methylnaphthalene	0.194	0.002	"	0.200	ND	96.8	70-130	0.155	20	
Acenaphthene	0.202	0.020	"	0.200	ND	101	70-130	2.60	20	
Anthracene	0.199	0.020	"	0.200	0.001	99.0	70-130	4.84	20	
Benzo (a) anthracene	0.211	0.005	"	0.200	ND	105	70-130	4.16	20	
Benzo (a) pyrene	0.239	0.020	"	0.200	0.003	118	70-130	2.29	20	
Benzo (b) fluoranthene	0.233	0.020	"	0.200	0.002	115	70-130	0.421	20	
Benzo (g,h,i) perylene	0.194	0.020	"	0.200	0.001	96.3	70-130	0.365	20	
Benzo (k) fluoranthene	0.210	0.020	"	0.200	0.0007	105	70-130	1.83	20	
Chrysene	0.211	0.020	"	0.200	0.002	105	70-130	0.617	20	
Dibenz (a,h) anthracene	0.228	0.020	"	0.200	0.0005	114	70-130	2.26	20	
Fluoranthene	0.206	0.020	"	0.200	0.002	102	70-130	0.196	20	

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5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

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 B5D3036 - EPA 3580

Matrix Spike Dup (B5D3036-MSD1)

Source: E5D0852-02

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

Fluorene	0.203	0.020	mg/kg	0.200	ND	102	70-130	1.23	20	
Indeno (1,2,3-cd) pyrene	0.191	0.020	"	0.200	0.001	95.0	70-130	3.56	20	
Naphthalene	0.202	0.002	"	0.200	ND	101	70-130	0.189	20	
Phenanthrene	0.207	0.020	"	0.200	ND	103	70-130	0.418	20	
Pyrene	0.203	0.020	"	0.200	0.001	101	70-130	0.607	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.9	60-130			
Surrogate: Anthracene-d10	180		"	200		92.1	60-130			
Surrogate: Pyrene-d10	190		"	200		93.9	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

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 B5D3033 - EPA 3550B

Blank (B5D3033-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	19		"	24.9		77.8	50-150			

LCS (B5D3033-BS1)

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

Diesel (C10-C28)	929	50.0	mg/kg	1000		92.9	70-130			
Residual Range Organics (C28-C40)	899	200	"	1000		89.9	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

Matrix Spike (B5D3033-MS1)

Source: E5D0856-05

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

Diesel (C10-C28)	1080	50.0	mg/kg	1000	ND	108	70-130			
Residual Range Organics (C28-C40)	1070	200	"	1000	ND	107	70-130			
Surrogate: o-Terphenyl	60		"	49.8		120	50-150			

Matrix Spike Dup (B5D3033-MSD1)

Source: E5D0856-05

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

Diesel (C10-C28)	958	50.0	mg/kg	1000	ND	95.8	70-130	12.0	35	
Residual Range Organics (C28-C40)	954	200	"	1000	ND	95.4	70-130	11.2	35	
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

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 B5D3024 - EPA 3050B

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

Blank (B5D3024-BLK1)

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 (B5D3024-BS1)

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

Arsenic	4.84	0.290	mg/kg	5.00		96.9	80-120			
Barium	477	82.0	"	500		95.4	80-120			
Cadmium	5.25	0.380	"	5.00		105	80-120			
Copper	51.2	46.0	"	50.0		102	80-120			
Lead	4.90	14.0	"	5.00		98.0	80-120			U
Nickel	5.11	26.0	"	5.00		102	80-120			U
Selenium	5.08	0.260	"	5.00		102	80-120			
Silver	5.13	0.800	"	5.00		103	80-120			
Zinc	50.4	370	"	50.0		101	80-120			U

Matrix Spike (B5D3024-MS1)

Source: E5D0856-05

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

Arsenic	8.62	0.266	mg/kg	4.58	10.5	NR	75-125			QM-07
Barium	522	75.1	"	458	90.1	94.4	75-125			
Cadmium	4.65	0.348	"	4.58	0.353	93.9	75-125			
Copper	150	42.1	"	45.8	89.3	132	75-125			QM-07
Lead	11.7	12.8	"	4.58	7.14	99.9	75-125			U

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Jen Pellegrini For Jordan A. Bynon, Project Manager



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5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

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 B5D3024 - EPA 3050B

Matrix Spike (B5D3024-MS1)

Source: E5D0856-05

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

Nickel	13.2	23.8	mg/kg	4.58	8.01	114	75-125			U
Selenium	4.86	0.238	"	4.58	0.531	94.6	75-125			
Silver	4.18	0.733	"	4.58	0.187	87.2	75-125			
Zinc	109	339	"	45.8	59.1	108	75-125			U

Matrix Spike Dup (B5D3024-MSD1)

Source: E5D0856-05

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

Arsenic	10.0	0.271	mg/kg	4.67	10.5	NR	75-125	15.1	20	QM-07
Barium	573	76.6	"	467	90.1	103	75-125	9.28	20	
Cadmium	5.27	0.355	"	4.67	0.353	105	75-125	12.4	20	
Copper	159	43.0	"	46.7	89.3	149	75-125	6.05	20	QM-07
Lead	13.6	13.1	"	4.67	7.14	139	75-125	15.2	20	QM-07
Nickel	14.7	24.3	"	4.67	8.01	143	75-125	10.3	20	QM-07, U
Selenium	5.18	0.243	"	4.67	0.531	99.6	75-125	6.36	20	
Silver	4.79	0.747	"	4.67	0.187	98.5	75-125	13.5	20	
Zinc	115	346	"	46.7	59.1	120	75-125	5.83	20	U

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

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 B5D3018 - Saturated Paste pH/EC

Blank (B5D3018-BLK1)

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

Specific Conductance (EC) ND 0.00500 mmhos/cm

U

Duplicate (B5D3018-DUP1)

Source: E5D0852-11

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

Specific Conductance (EC) 6.25 0.00500 mmhos/cm

5.44 13.8 25

pH 8.20 pH Units

8.21 0.122 25

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Jen Pellegrini For Jordan A. Bynon, Project Manager



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5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

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 B5D3001 - EPA 5030B (Water)

Blank (B5D3001-BLK1)

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

1,1,1,2-Tetrachloroethane	ND	1.00	ug/L							U
1,1,1-Trichloroethane	ND	1.00	"							U
1,1,2,2-Tetrachloroethane	ND	1.00	"							U
1,1,2-Trichloroethane	ND	1.00	"							U
1,1-Dichloroethane	ND	1.00	"							U
1,1-Dichloroethene	ND	1.00	"							U
1,1-Dichloropropene	ND	1.00	"							U
1,2,3-Trichlorobenzene	ND	5.00	"							U
1,2,3-Trichloropropane	ND	5.00	"							U
1,2,4-Trichlorobenzene	ND	5.00	"							U
1,2,4-Trimethylbenzene	ND	1.00	"							U
1,2-Dibromo-3-chloropropane	ND	5.00	"							U
1,2-Dibromoethane (EDB)	ND	1.50	"							U
1,2-Dichlorobenzene	ND	1.00	"							U
1,2-Dichloroethane	ND	1.00	"							U
1,2-Dichloropropane	ND	1.00	"							U
1,3,5-Trimethylbenzene	ND	1.00	"							U
1,3-Dichlorobenzene	ND	1.00	"							U
1,3-Dichloropropane	ND	1.00	"							U
1,4-Dichlorobenzene	ND	1.00	"							U
2,2-Dichloropropane	ND	1.00	"							U
2-Butanone	ND	5.00	"							U
2-Chlorotoluene	ND	1.00	"							U
2-Hexanone	ND	6.00	"							U
4-Chlorotoluene	ND	1.00	"							U
4-Isopropyltoluene	ND	1.00	"							U

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5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

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 B5D3001 - EPA 5030B (Water)

Blank (B5D3001-BLK1)

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

4-Methyl-2-pentanone	ND	5.00	ug/L							U
Acetone	ND	8.00	"							U
Benzene	ND	1.00	"							U
Bromobenzene	ND	1.00	"							U
Bromochloromethane	ND	1.00	"							U
Bromodichloromethane	ND	1.00	"							U
Bromoform	ND	1.00	"							U
Bromomethane	ND	1.00	"							U
Carbon disulfide	ND	5.00	"							U
Carbon tetrachloride	ND	1.00	"							U
Chlorobenzene	ND	1.00	"							U
Chloroethane	ND	1.00	"							U
Chloroform	ND	1.00	"							U
Chloromethane	ND	1.00	"							U
cis-1,2-Dichloroethene	ND	1.00	"							U
cis-1,3-Dichloropropene	ND	1.00	"							U
Dibromochloromethane	ND	1.00	"							U
Dibromomethane	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Hexachlorobutadiene	ND	5.00	"							U
Iodomethane	ND	10.0	"							U
Isopropylbenzene	ND	1.00	"							U
m,p-Xylene	ND	2.00	"							U
Methylene Chloride	ND	15.0	"							U
Methyl tert-Butyl Ether	ND	1.00	"							U
Naphthalene	ND	4.00	"							U

Origins Laboratory

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Jen Pellegrini For Jordan A. Bynon, Project Manager



CTEH

5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

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 B5D3001 - EPA 5030B (Water)

Blank (B5D3001-BLK1)

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

n-Butylbenzene	ND	1.00	ug/L							U
n-Propylbenzene	ND	1.00	"							U
o-Xylene	ND	1.00	"							U
sec-Butylbenzene	ND	1.00	"							U
Styrene	ND	1.00	"							U
tert-Butylbenzene	ND	1.00	"							U
Tetrachloroethene	ND	1.00	"							U
Toluene	ND	1.00	"							U
trans-1,2-Dichloroethene	ND	1.00	"							U
trans-1,3-Dichloropropene	ND	1.00	"							U
Trichloroethene	ND	1.00	"							U
Trichlorofluoromethane	ND	1.00	"							U
Vinyl chloride	ND	1.00	"							U

Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	70-130			

LCS (B5D3001-BS1)

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

1,1,1,2-Tetrachloroethane	54.3	1.00	ug/L	50.0		109	70-130			
1,1,1-Trichloroethane	42.8	1.00	"	50.0		85.5	70-130			
1,1,2,2-Tetrachloroethane	50.7	1.00	"	50.0		101	70-130			
1,1,2-Trichloroethane	43.5	1.00	"	50.0		87.0	70-130			
1,1-Dichloroethane	43.6	1.00	"	50.0		87.2	70-130			
1,1-Dichloroethene	52.4	1.00	"	50.0		105	70-130			
1,1-Dichloropropene	43.9	1.00	"	50.0		87.8	70-130			
1,2,3-Trichlorobenzene	49.8	5.00	"	50.0		99.5	70-130			
1,2,3-Trichloropropane	50.9	5.00	"	50.0		102	70-130			

Origins Laboratory

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Jen Pellegrini For Jordan A. Bynon, Project Manager



CTEH

5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

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 B5D3001 - EPA 5030B (Water)

LCS (B5D3001-BS1)

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

1,2,4-Trichlorobenzene	50.3	5.00	ug/L	50.0		101	70-130			
1,2,4-Trimethylbenzene	57.3	1.00	"	50.0		115	70-130			
1,2-Dibromo-3-chloropropane	47.5	5.00	"	50.0		95.0	70-130			
1,2-Dibromoethane (EDB)	44.1	1.50	"	50.0		88.1	70-130			
1,2-Dichlorobenzene	50.0	1.00	"	50.0		100	70-130			
1,2-Dichloroethane	43.2	1.00	"	50.0		86.4	70-130			
1,2-Dichloropropane	51.1	1.00	"	50.0		102	70-130			
1,3,5-Trimethylbenzene	53.8	1.00	"	50.0		108	70-130			
1,3-Dichlorobenzene	48.4	1.00	"	50.0		96.9	70-130			
1,3-Dichloropropane	46.7	1.00	"	50.0		93.5	70-130			
1,4-Dichlorobenzene	49.9	1.00	"	50.0		99.8	70-130			
2,2-Dichloropropane	46.6	1.00	"	50.0		93.3	70-130			
2-Butanone	250	5.00	"	250		100	70-130			
2-Chlorotoluene	53.8	1.00	"	50.0		108	70-130			
2-Hexanone	252	6.00	"	250		101	70-130			
4-Chlorotoluene	52.0	1.00	"	50.0		104	70-130			
4-Isopropyltoluene	59.2	1.00	"	50.0		118	70-130			
4-Methyl-2-pentanone	251	5.00	"	250		100	70-130			
Acetone	279	8.00	"	250		111	70-130			
Benzene	44.0	1.00	"	50.0		87.9	70-130			
Bromobenzene	53.1	1.00	"	50.0		106	70-130			
Bromochloromethane	41.8	1.00	"	50.0		83.6	70-130			
Bromodichloromethane	48.0	1.00	"	50.0		95.9	70-130			
Bromoform	43.7	1.00	"	50.0		87.4	70-130			
Bromomethane	49.8	1.00	"	50.0		99.5	70-130			
Carbon disulfide	50.3	5.00	"	50.0		101	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: Bishop Loss of Containment

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 B5D3001 - EPA 5030B (Water)

LCS (B5D3001-BS1)

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

Carbon tetrachloride	43.0	1.00	ug/L	50.0		86.0	70-130			
Chlorobenzene	49.3	1.00	"	50.0		98.5	70-130			
Chloroethane	49.0	1.00	"	50.0		98.0	70-130			
Chloroform	40.3	1.00	"	50.0		80.6	70-130			
Chloromethane	50.0	1.00	"	50.0		100	70-130			
cis-1,2-Dichloroethene	45.7	1.00	"	50.0		91.4	70-130			
cis-1,3-Dichloropropene	46.1	1.00	"	50.0		92.2	70-130			
Dibromochloromethane	43.0	1.00	"	50.0		86.1	70-130			
Dibromomethane	44.1	1.00	"	50.0		88.3	70-130			
Ethylbenzene	53.2	1.00	"	50.0		106	70-130			
Hexachlorobutadiene	57.2	5.00	"	50.0		114	70-130			
Iodomethane	46.6	10.0	"	50.0		93.2	70-130			
Isopropylbenzene	58.7	1.00	"	50.0		117	70-130			
m,p-Xylene	104	2.00	"	100		104	70-130			
Methylene Chloride	49.0	15.0	"	50.0		98.0	70-130			
Methyl tert-Butyl Ether	46.2	1.00	"	50.0		92.3	70-130			
Naphthalene	49.5	4.00	"	50.0		99.0	70-130			
n-Butylbenzene	59.8	1.00	"	50.0		120	70-130			
n-Propylbenzene	55.2	1.00	"	50.0		110	70-130			
o-Xylene	51.5	1.00	"	50.0		103	70-130			
sec-Butylbenzene	60.2	1.00	"	50.0		120	70-130			
Styrene	52.3	1.00	"	50.0		105	70-130			
tert-Butylbenzene	58.8	1.00	"	50.0		118	70-130			
Tetrachloroethene	47.8	1.00	"	50.0		95.5	70-130			
Toluene	45.2	1.00	"	50.0		90.5	70-130			
trans-1,2-Dichloroethene	46.2	1.00	"	50.0		92.4	70-130			

Origins Laboratory

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Jen Pellegrini For Jordan A. Bynon, Project Manager



CTEH

5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

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 B5D3001 - EPA 5030B (Water)

LCS (B5D3001-BS1)

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

trans-1,3-Dichloropropene	49.0	1.00	ug/L	50.0		98.0	70-130			
Trichloroethene	48.1	1.00	"	50.0		96.2	70-130			
Trichlorofluoromethane	58.3	1.00	"	50.0		117	70-130			
Vinyl chloride	56.7	1.00	"	50.0		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.9	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	71		"	62.5		113	70-130			

Matrix Spike (B5D3001-MS1)

Source: E5D0807-02

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

1,1,1,2-Tetrachloroethane	55.7	1.00	ug/L	50.0	ND	111	70-130			
1,1,1-Trichloroethane	43.9	1.00	"	50.0	ND	87.8	70-130			
1,1,2,2-Tetrachloroethane	50.3	1.00	"	50.0	ND	101	70-130			
1,1,2-Trichloroethane	44.2	1.00	"	50.0	ND	88.4	70-130			
1,1-Dichloroethane	44.4	1.00	"	50.0	ND	88.7	70-130			
1,1-Dichloroethene	54.5	1.00	"	50.0	ND	109	70-130			
1,1-Dichloropropene	45.2	1.00	"	50.0	ND	90.4	70-130			
1,2,3-Trichlorobenzene	51.6	5.00	"	50.0	ND	103	70-130			
1,2,3-Trichloropropane	51.2	5.00	"	50.0	ND	102	70-130			
1,2,4-Trichlorobenzene	51.6	5.00	"	50.0	ND	103	70-130			
1,2,4-Trimethylbenzene	59.1	1.00	"	50.0	ND	118	70-130			
1,2-Dibromo-3-chloropropane	47.7	5.00	"	50.0	ND	95.4	70-130			
1,2-Dibromoethane (EDB)	44.4	1.50	"	50.0	ND	88.8	70-130			
1,2-Dichlorobenzene	51.1	1.00	"	50.0	ND	102	70-130			
1,2-Dichloroethane	43.4	1.00	"	50.0	ND	86.7	70-130			
1,2-Dichloropropane	51.3	1.00	"	50.0	ND	103	70-130			
1,3,5-Trimethylbenzene	56.1	1.00	"	50.0	ND	112	70-130			
1,3-Dichlorobenzene	49.1	1.00	"	50.0	ND	98.3	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: Bishop Loss of Containment

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 B5D3001 - EPA 5030B (Water)

Matrix Spike (B5D3001-MS1)

Source: E5D0807-02

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

1,3-Dichloropropane	47.2	1.00	ug/L	50.0	ND	94.5	70-130			
1,4-Dichlorobenzene	53.1	1.00	"	50.0	ND	106	70-130			
2,2-Dichloropropane	48.6	1.00	"	50.0	ND	97.1	70-130			
2-Butanone	240	5.00	"	250	ND	95.9	70-130			
2-Chlorotoluene	55.3	1.00	"	50.0	ND	111	70-130			
2-Hexanone	246	6.00	"	250	ND	98.3	70-130			
4-Chlorotoluene	53.6	1.00	"	50.0	ND	107	70-130			
4-Isopropyltoluene	61.8	1.00	"	50.0	ND	124	70-130			
4-Methyl-2-pentanone	248	5.00	"	250	ND	99.4	70-130			
Acetone	259	8.00	"	250	ND	104	70-130			
Benzene	44.7	1.00	"	50.0	ND	89.4	70-130			
Bromobenzene	54.0	1.00	"	50.0	ND	108	70-130			
Bromochloromethane	42.0	1.00	"	50.0	ND	84.0	70-130			
Bromodichloromethane	48.1	1.00	"	50.0	ND	96.3	70-130			
Bromoform	44.3	1.00	"	50.0	ND	88.6	70-130			
Bromomethane	48.2	1.00	"	50.0	ND	96.3	70-130			
Carbon disulfide	52.0	5.00	"	50.0	ND	104	70-130			
Carbon tetrachloride	44.3	1.00	"	50.0	ND	88.6	70-130			
Chlorobenzene	50.3	1.00	"	50.0	ND	101	70-130			
Chloroethane	56.1	1.00	"	50.0	ND	112	70-130			
Chloroform	38.0	1.00	"	50.0	ND	76.1	70-130			
Chloromethane	35.9	1.00	"	50.0	ND	71.8	70-130			
cis-1,2-Dichloroethene	46.3	1.00	"	50.0	ND	92.7	70-130			
cis-1,3-Dichloropropene	47.1	1.00	"	50.0	ND	94.3	70-130			
Dibromochloromethane	43.3	1.00	"	50.0	ND	86.5	70-130			
Dibromomethane	43.7	1.00	"	50.0	ND	87.3	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager



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5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

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 B5D3001 - EPA 5030B (Water)

Matrix Spike (B5D3001-MS1)

Source: E5D0807-02

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

Ethylbenzene	55.4	1.00	ug/L	50.0	ND	111	70-130			
Hexachlorobutadiene	71.8	5.00	"	50.0	ND	144	70-130			QM-07
Iodomethane	47.5	10.0	"	50.0	ND	95.0	70-130			
Isopropylbenzene	61.5	1.00	"	50.0	ND	123	70-130			
m,p-Xylene	108	2.00	"	100	ND	108	70-130			
Methylene Chloride	49.7	15.0	"	50.0	ND	99.4	70-130			
Methyl tert-Butyl Ether	45.0	1.00	"	50.0	ND	90.0	70-130			
Naphthalene	50.6	4.00	"	50.0	ND	101	70-130			
n-Butylbenzene	62.4	1.00	"	50.0	ND	125	70-130			
n-Propylbenzene	57.6	1.00	"	50.0	ND	115	70-130			
o-Xylene	53.3	1.00	"	50.0	ND	107	70-130			
sec-Butylbenzene	63.0	1.00	"	50.0	ND	126	70-130			
Styrene	53.4	1.00	"	50.0	ND	107	70-130			
tert-Butylbenzene	61.3	1.00	"	50.0	ND	123	70-130			
Tetrachloroethene	50.0	1.00	"	50.0	ND	100	70-130			
Toluene	47.0	1.00	"	50.0	ND	94.0	70-130			
trans-1,2-Dichloroethene	47.6	1.00	"	50.0	ND	95.2	70-130			
trans-1,3-Dichloropropene	49.2	1.00	"	50.0	ND	98.4	70-130			
Trichloroethene	49.4	1.00	"	50.0	ND	98.8	70-130			
Trichlorofluoromethane	43.8	1.00	"	50.0	ND	87.6	70-130			
Vinyl chloride	44.5	1.00	"	50.0	ND	88.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.2	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	71		"	62.5		114	70-130			

Matrix Spike Dup (B5D3001-MSD1)

Source: E5D0807-02

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

1,1,1,2-Tetrachloroethane	53.2	1.00	ug/L	50.0	ND	106	70-130	4.70	20	
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Jen Pellegrini For Jordan A. Bynon, Project Manager



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Kyle Lawrence

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5D3001 - EPA 5030B (Water)

Matrix Spike Dup (B5D3001-MSD1)

Source: E5D0807-02

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

1,1,1-Trichloroethane	41.2	1.00	ug/L	50.0	ND	82.4	70-130	6.42	20	
1,1,2,2-Tetrachloroethane	49.3	1.00	"	50.0	ND	98.5	70-130	2.17	20	
1,1,2-Trichloroethane	42.3	1.00	"	50.0	ND	84.7	70-130	4.28	20	
1,1-Dichloroethane	41.7	1.00	"	50.0	ND	83.3	70-130	6.25	20	
1,1-Dichloroethene	51.0	1.00	"	50.0	ND	102	70-130	6.69	20	
1,1-Dichloropropene	42.3	1.00	"	50.0	ND	84.6	70-130	6.60	20	
1,2,3-Trichlorobenzene	49.5	5.00	"	50.0	ND	99.1	70-130	4.13	20	
1,2,3-Trichloropropane	45.1	5.00	"	50.0	ND	90.2	70-130	12.6	20	
1,2,4-Trichlorobenzene	49.2	5.00	"	50.0	ND	98.4	70-130	4.78	20	
1,2,4-Trimethylbenzene	55.6	1.00	"	50.0	ND	111	70-130	6.02	20	
1,2-Dibromo-3-chloropropane	47.2	5.00	"	50.0	ND	94.3	70-130	1.16	20	
1,2-Dibromoethane (EDB)	42.4	1.50	"	50.0	ND	84.8	70-130	4.56	20	
1,2-Dichlorobenzene	48.3	1.00	"	50.0	ND	96.6	70-130	5.65	20	
1,2-Dichloroethane	41.1	1.00	"	50.0	ND	82.2	70-130	5.33	20	
1,2-Dichloropropane	48.6	1.00	"	50.0	ND	97.2	70-130	5.35	20	
1,3,5-Trimethylbenzene	52.7	1.00	"	50.0	ND	105	70-130	6.28	20	
1,3-Dichlorobenzene	46.4	1.00	"	50.0	ND	92.8	70-130	5.72	20	
1,3-Dichloropropane	44.7	1.00	"	50.0	ND	89.5	70-130	5.46	20	
1,4-Dichlorobenzene	49.9	1.00	"	50.0	ND	99.8	70-130	6.27	20	
2,2-Dichloropropane	45.2	1.00	"	50.0	ND	90.4	70-130	7.17	20	
2-Butanone	234	5.00	"	250	ND	93.6	70-130	2.40	20	
2-Chlorotoluene	50.6	1.00	"	50.0	ND	101	70-130	9.01	20	
2-Hexanone	236	6.00	"	250	ND	94.4	70-130	4.07	20	
4-Chlorotoluene	50.4	1.00	"	50.0	ND	101	70-130	6.00	20	
4-Isopropyltoluene	58.3	1.00	"	50.0	ND	117	70-130	5.89	20	
4-Methyl-2-pentanone	237	5.00	"	250	ND	94.7	70-130	4.75	20	

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Jen Pellegrini For Jordan A. Bynon, Project Manager



CTEH

5120 North Shore Drive
North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

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 B5D3001 - EPA 5030B (Water)

Matrix Spike Dup (B5D3001-MSD1)

Source: E5D0807-02

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

Acetone	293	8.00	ug/L	250	ND	117	70-130	12.2	20	
Benzene	42.1	1.00	"	50.0	ND	84.1	70-130	6.11	20	
Bromobenzene	51.6	1.00	"	50.0	ND	103	70-130	4.49	20	
Bromochloromethane	39.9	1.00	"	50.0	ND	79.7	70-130	5.20	20	
Bromodichloromethane	46.1	1.00	"	50.0	ND	92.2	70-130	4.35	20	
Bromoform	42.9	1.00	"	50.0	ND	85.9	70-130	3.10	20	
Bromomethane	31.8	1.00	"	50.0	ND	63.5	70-130	41.0	20	QM-07
Carbon disulfide	48.7	5.00	"	50.0	ND	97.5	70-130	6.57	20	
Carbon tetrachloride	41.8	1.00	"	50.0	ND	83.6	70-130	5.90	20	
Chlorobenzene	47.0	1.00	"	50.0	ND	94.1	70-130	6.68	20	
Chloroethane	38.2	1.00	"	50.0	ND	76.5	70-130	37.9	20	QR-02
Chloroform	35.9	1.00	"	50.0	ND	71.8	70-130	5.82	20	
Chloromethane	24.0	1.00	"	50.0	ND	48.0	70-130	39.7	20	QM-07
cis-1,2-Dichloroethene	43.6	1.00	"	50.0	ND	87.1	70-130	6.21	20	
cis-1,3-Dichloropropene	44.6	1.00	"	50.0	ND	89.2	70-130	5.51	20	
Dibromochloromethane	41.5	1.00	"	50.0	ND	83.0	70-130	4.13	20	
Dibromomethane	41.9	1.00	"	50.0	ND	83.7	70-130	4.23	20	
Ethylbenzene	52.2	1.00	"	50.0	ND	104	70-130	6.02	20	
Hexachlorobutadiene	67.4	5.00	"	50.0	ND	135	70-130	6.29	20	QM-07
Iodomethane	45.0	10.0	"	50.0	ND	89.9	70-130	5.52	20	
Isopropylbenzene	58.0	1.00	"	50.0	ND	116	70-130	5.86	20	
m,p-Xylene	102	2.00	"	100	ND	102	70-130	5.71	20	
Methylene Chloride	47.0	15.0	"	50.0	ND	93.9	70-130	5.67	20	
Methyl tert-Butyl Ether	43.2	1.00	"	50.0	ND	86.5	70-130	4.01	20	
Naphthalene	48.8	4.00	"	50.0	ND	97.5	70-130	3.72	20	
n-Butylbenzene	58.0	1.00	"	50.0	ND	116	70-130	7.32	20	

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North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

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 B5D3001 - EPA 5030B (Water)

Matrix Spike Dup (B5D3001-MSD1)

Source: E5D0807-02

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

n-Propylbenzene	54.1	1.00	ug/L	50.0	ND	108	70-130	6.25	20	
o-Xylene	50.4	1.00	"	50.0	ND	101	70-130	5.44	20	
sec-Butylbenzene	59.1	1.00	"	50.0	ND	118	70-130	6.47	20	
Styrene	50.8	1.00	"	50.0	ND	102	70-130	4.99	20	
tert-Butylbenzene	58.2	1.00	"	50.0	ND	116	70-130	5.21	20	
Tetrachloroethene	46.4	1.00	"	50.0	ND	92.7	70-130	7.66	20	
Toluene	43.6	1.00	"	50.0	ND	87.2	70-130	7.48	20	
trans-1,2-Dichloroethene	44.8	1.00	"	50.0	ND	89.5	70-130	6.19	20	
trans-1,3-Dichloropropene	47.1	1.00	"	50.0	ND	94.2	70-130	4.32	20	
Trichloroethene	46.3	1.00	"	50.0	ND	92.7	70-130	6.37	20	
Trichlorofluoromethane	29.3	1.00	"	50.0	ND	58.6	70-130	39.6	20	QM-07
Vinyl chloride	30.1	1.00	"	50.0	ND	60.2	70-130	38.5	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	60	"	"	62.5		96.2	70-130			
Surrogate: Toluene-d8	63	"	"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	72	"	"	62.5		115	70-130			

Batch B5D3027 - EPA 5030 (soil)

Blank (B5D3027-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

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Kyle Lawrence

Project Number: PROJ-054017
Project: Bishop Loss of Containment

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 B5D3027 - EPA 5030 (soil)

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

Blank (B5D3027-BLK1)										
Surrogate: 1,2-Dichloroethane-d4	0.10		mg/kg	0.125		80.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	70-130			

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

LCS (B5D3027-BS1)										
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Benzene	0.0931	0.00200	"	0.100		93.1	70-130			
Ethylbenzene	0.0979	0.00200	"	0.100		97.9	70-130			
Naphthalene	0.0984	0.00380	"	0.100		98.4	70-130			
Toluene	0.0930	0.00200	"	0.100		93.0	70-130			
o-Xylene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.198	0.00400	"	0.200		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		79.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.7	70-130			

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

Matrix Spike (B5D3027-MS1)										
Source: E5D0856-05										
1,2,4-Trimethylbenzene	0.0670	0.00200	mg/kg	0.100	ND	67.0	70-130			QM-07
1,3,5-Trimethylbenzene	0.0664	0.00200	"	0.100	ND	66.4	70-130			QM-07
Benzene	0.0759	0.00200	"	0.100	ND	75.9	70-130			
Ethylbenzene	0.0745	0.00200	"	0.100	ND	74.5	70-130			
Naphthalene	0.0473	0.00380	"	0.100	ND	47.3	70-130			QM-07
Toluene	0.0705	0.00200	"	0.100	ND	70.5	70-130			
o-Xylene	0.0772	0.00200	"	0.100	ND	77.2	70-130			
m,p-Xylene	0.150	0.00400	"	0.200	ND	74.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		86.5	70-130			

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Project: Bishop Loss of Containment

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B5D3027 - EPA 5030 (soil)

Matrix Spike (B5D3027-MS1)

Source: E5D0856-05

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

Surrogate: Toluene-d8	0.12		mg/kg	0.125		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.3	70-130			

Matrix Spike (B5D3027-MS2)

Source: E5D0850-03

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

1,2,4-Trimethylbenzene	0.0786	0.00200	mg/kg	0.100	ND	78.6	70-130			
1,3,5-Trimethylbenzene	0.0781	0.00200	"	0.100	ND	78.1	70-130			
Benzene	0.0767	0.00200	"	0.100	ND	76.7	70-130			
Ethylbenzene	0.0797	0.00200	"	0.100	ND	79.7	70-130			
Naphthalene	0.0581	0.00380	"	0.100	ND	58.1	70-130			QM-07
Toluene	0.0736	0.00200	"	0.100	ND	73.6	70-130			
o-Xylene	0.0824	0.00200	"	0.100	ND	82.4	70-130			
m,p-Xylene	0.160	0.00400	"	0.200	ND	80.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		84.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.2	70-130			

Matrix Spike Dup (B5D3027-MSD1)

Source: E5D0856-05

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

1,2,4-Trimethylbenzene	0.0652	0.00200	mg/kg	0.100	ND	65.2	70-130	2.81	20	QM-07
1,3,5-Trimethylbenzene	0.0649	0.00200	"	0.100	ND	64.9	70-130	2.22	20	QM-07
Benzene	0.0720	0.00200	"	0.100	ND	72.0	70-130	5.30	20	
Ethylbenzene	0.0714	0.00200	"	0.100	ND	71.4	70-130	4.28	20	
Naphthalene	0.0419	0.00380	"	0.100	ND	41.9	70-130	12.1	20	QM-07
Toluene	0.0662	0.00200	"	0.100	ND	66.2	70-130	6.29	20	QM-07
o-Xylene	0.0722	0.00200	"	0.100	ND	72.2	70-130	6.72	20	
m,p-Xylene	0.144	0.00400	"	0.200	ND	71.9	70-130	4.14	20	
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		83.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.2	70-130			

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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 B5D3027 - EPA 5030 (soil)

Matrix Spike Dup (B5D3027-MSD1)

Source: E5D0856-05

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

Surrogate: 4-Bromofluorobenzene	0.12		mg/kg	0.125		99.5	70-130			
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Matrix Spike Dup (B5D3027-MSD2)

Source: E5D0850-03

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

1,2,4-Trimethylbenzene	0.0872	0.00200	mg/kg	0.100	ND	87.2	70-130	10.4	20	
1,3,5-Trimethylbenzene	0.0864	0.00200	"	0.100	ND	86.4	70-130	10.1	20	
Benzene	0.0849	0.00200	"	0.100	ND	84.9	70-130	10.2	20	
Ethylbenzene	0.0881	0.00200	"	0.100	ND	88.1	70-130	10.0	20	
Naphthalene	0.0707	0.00380	"	0.100	ND	70.7	70-130	19.5	20	
Toluene	0.0808	0.00200	"	0.100	ND	80.8	70-130	9.36	20	
o-Xylene	0.0923	0.00200	"	0.100	ND	92.3	70-130	11.4	20	
m,p-Xylene	0.177	0.00400	"	0.200	ND	88.6	70-130	9.86	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		87.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.9	70-130			

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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-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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