



**CTEH**

**May 13, 2025**

**Kyle Lawrence**

**5120 North Shore Drive**

**North Little Rock AR 72118**

**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 E5D0851-01.

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

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

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

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

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

Origins Laboratory  
303.433.1322  
projectmanager@originslab.com



**1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645**





CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GACO0429T000S005	E5D0851-01	Soil	April 29, 2025 11:28	04/29/2025 20:15
GACO0429T000S006	E5D0851-02	Soil	April 29, 2025 11:06	04/29/2025 20:15
GACO0429T000S007	E5D0851-03	Soil	April 29, 2025 10:42	04/29/2025 20:15
GACO0429T000S008	E5D0851-04	Soil	April 29, 2025 10:02	04/29/2025 20:15
GACO0429T000C008	E5D0851-05	Soil	April 29, 2025 10:02	04/29/2025 20:15
GACO0429T000S009	E5D0851-06	Soil	April 29, 2025 9:32	04/29/2025 20:15
GACO0429T000T004	E5D0851-07	Water	April 29, 2025 7:00	04/29/2025 20:15

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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

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

## Sample Receipt Checklist

Origins Work Order: ESD0891

Client: CTEH

Client Project ID: Bishop - 054017

Checklist Completed by: SMC/NKM

Shipped Via: HIO  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 4/30/25

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☒ Water ☐ Other: \_\_\_\_\_ (Describe)

Cooler Number/Temperature: 1 / 2.0 °C

Thermometer ID: T-007

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

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

Reviewed by (Project Manager) [Signature]

4/30/25  
Date/Time Reviewed

Origins Laboratory

[Signature]

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

GACO0429T000S005

4/29/2025 11:28:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0851-01 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.25		0.100	mg/L	1	B5D3013	04/30/2025	05/02/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.247	mg/kg	1	B5D3006	04/30/2025	05/07/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D3002	04/30/2025	04/30/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	136 %			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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4/29/2025 11:28:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0851-01 (Soil)**  
**Origins Laboratory**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	89.1 %		70-130		B5D3027	04/30/2025	04/30/2025	
Surrogate: Toluene-d8	98.6 %		70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.9 %		70-130		"	"	"	

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5D3037	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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4/29/2025 11:28:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0851-01 (Soil)**  
**Origins Laboratory**

**PAH by EPA 8270E extracted via 3580A**

Surrogate: Fluorene-d10	98.5 %		60-130	B5D3037	04/30/2025	04/30/2025
Surrogate: Anthracene-d10	98.5 %		60-130	"	"	"
Surrogate: Pyrene-d10	102 %		60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	100 %		60-130	"	"	"

**pH in Soil by 9045D**

pH	8.34	pH Units	1	B5D3017	04/30/2025	05/01/2025
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**SAR by 20B Saturated Paste**

SAR	2.72	0.0100	SAR	1	B5D3009	04/30/2025	05/05/2025
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.33	0.00500	mmhos/cm	1	B5D3017	04/30/2025	05/01/2025
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**Table 915 metals by EPA 6020B**

Arsenic	4.29	0.260	mg/kg	10	B5D3021	04/30/2025	05/01/2025	
Barium	79.2	73.5	"	"	"	"	"	
Cadmium	ND	0.341	"	"	"	"	"	U
Copper	ND	41.2	"	"	"	"	"	U
Lead	ND	12.5	"	"	"	"	"	U
Nickel	ND	23.3	"	"	"	"	"	U

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**GACO0429T000S005**

**4/29/2025 11:28:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0851-01 (Soil)**  
**Origins Laboratory**

**Table 915 metals by EPA 6020B**

Selenium	0.252	0.233	mg/kg	10	B5D3021	04/30/2025	05/01/2025	
Silver	ND	0.717	"	"	"	"	"	U
Zinc	ND	332	"	"	"	"	"	U

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5120 North Shore Drive

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GACO0429T000S006

4/29/2025 11:06:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0851-02 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.820		0.0996	mg/L	1	B5D3013	04/30/2025	05/02/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.239	mg/kg	1	B5D3006	04/30/2025	05/07/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D3002	04/30/2025	04/30/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	101 %			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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GACO0429T000S006

4/29/2025 11:06:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0851-02 (Soil)**  
**Origins Laboratory**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	86.0 %		70-130		B5D3027	04/30/2025	04/30/2025	
Surrogate: Toluene-d8	97.5 %		70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %		70-130		"	"	"	

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5D3037	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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GACO0429T000S006

4/29/2025 11:06:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0851-02 (Soil)**  
**Origins Laboratory**

**PAH by EPA 8270E extracted via 3580A**

Surrogate: Fluorene-d10	97.2 %		60-130	B5D3037	04/30/2025	04/30/2025
Surrogate: Anthracene-d10	98.6 %		60-130	"	"	"
Surrogate: Pyrene-d10	104 %		60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %		60-130	"	"	"

**pH in Soil by 9045D**

pH	8.33	pH Units	1	B5D3017	04/30/2025	05/01/2025
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**SAR by 20B Saturated Paste**

SAR	1.63	0.0100	SAR	1	B5D3009	04/30/2025	05/05/2025
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.657	0.00500	mmhos/cm	1	B5D3017	04/30/2025	05/01/2025
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**Table 915 metals by EPA 6020B**

Arsenic	4.40	0.259	mg/kg	10	B5D3021	04/30/2025	05/01/2025	
Barium	73.8	73.2	"	"	"	"	"	
Cadmium	ND	0.339	"	"	"	"	"	U
Copper	ND	41.1	"	"	"	"	"	U
Lead	ND	12.5	"	"	"	"	"	U
Nickel	ND	23.2	"	"	"	"	"	U

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4/29/2025 11:06:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0851-02 (Soil)  
Origins Laboratory

Table 915 metals by EPA 6020B

Selenium	0.311	0.232	mg/kg	10	B5D3021	04/30/2025	05/01/2025	
Silver	ND	0.714	"	"	"	"	"	U
Zinc	ND	330	"	"	"	"	"	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

GACO0429T000S007

4/29/2025 10:42:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5D0851-03 (Soil)</b> <b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
Boron	1.04		0.0998	mg/L	1	B5D3013	04/30/2025	05/02/2025	
<b>Chromium Hexavalent by EPA 7199</b>									
Hexavalent Chromium	ND		0.254	mg/kg	1	B5D3006	04/30/2025	05/07/2025	U
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D3002	04/30/2025	04/30/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	99.9 %			50-150		"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
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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Project: Bishop Loss of Containment

GACO0429T000S007

4/29/2025 10:42:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0851-03 (Soil)**  
**Origins Laboratory**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	86.8 %		70-130		B5D3027	04/30/2025	04/30/2025	
Surrogate: Toluene-d8	98.6 %		70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %		70-130		"	"	"	

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5D3037	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	0.015	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	0.055	0.020	"	"	"	"	"	U
Fluorene	0.020	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Naphthalene	0.003	0.002	"	"	"	"	"	U
Pyrene	0.037	0.020	"	"	"	"	"	U

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GACO0429T000S007

4/29/2025 10:42:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0851-03 (Soil)**  
**Origins Laboratory**

**PAH by EPA 8270E extracted via 3580A**

Surrogate: Fluorene-d10	97.3 %		60-130	B5D3037	04/30/2025	04/30/2025
Surrogate: Anthracene-d10	98.4 %		60-130	"	"	"
Surrogate: Pyrene-d10	103 %		60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	100 %		60-130	"	"	"

**pH in Soil by 9045D**

pH	8.33	pH Units	1	B5D3017	04/30/2025	05/01/2025
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**SAR by 20B Saturated Paste**

SAR	2.57	0.0100	SAR	1	B5D3009	04/30/2025	05/05/2025
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.878	0.00500	mmhos/cm	1	B5D3017	04/30/2025	05/01/2025
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**Table 915 metals by EPA 6020B**

Arsenic	4.17	0.270	mg/kg	10	B5D3021	04/30/2025	05/01/2025	
Barium	ND	76.3	"	"	"	"	"	U
Cadmium	ND	0.354	"	"	"	"	"	U
Copper	ND	42.8	"	"	"	"	"	U
Lead	ND	13.0	"	"	"	"	"	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

GACO0429T000S007

4/29/2025 10:42:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0851-03 (Soil)**  
**Origins Laboratory**

**Table 915 metals by EPA 6020B**

Nickel	ND	24.2	mg/kg	10	B5D3021	04/30/2025	05/01/2025	U
Selenium	0.288	0.242	"	"	"	"	"	"
Silver	ND	0.745	"	"	"	"	"	U
Zinc	ND	344	"	"	"	"	"	U

Origins Laboratory

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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

GACO0429T000S008

4/29/2025 10:02:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5D0851-04 (Soil)</b> <b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
Boron	0.562		0.0998	mg/L	1	B5D3013	04/30/2025	05/02/2025	
<b>Chromium Hexavalent by EPA 7199</b>									
Hexavalent Chromium	ND		0.245	mg/kg	1	B5D3006	04/30/2025	05/07/2025	U
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D3002	04/30/2025	04/30/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	101 %			50-150		"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
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

GACO0429T000S008

4/29/2025 10:02:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0851-04 (Soil)**  
**Origins Laboratory**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	85.5 %		70-130		B5D3027	04/30/2025	04/30/2025	
Surrogate: Toluene-d8	97.7 %		70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %		70-130		"	"	"	

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5D3037	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

Origins Laboratory

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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

GACO0429T000S008

4/29/2025 10:02:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0851-04 (Soil)**  
**Origins Laboratory**

**PAH by EPA 8270E extracted via 3580A**

Surrogate: Fluorene-d10	98.0 %		60-130	B5D3037	04/30/2025	04/30/2025	
Surrogate: Anthracene-d10	99.3 %		60-130	"	"	"	
Surrogate: Pyrene-d10	103 %		60-130	"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130	"	"	"	

**pH in Soil by 9045D**

pH	8.21		pH Units	1	B5D3017	04/30/2025	05/01/2025	
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**SAR by 20B Saturated Paste**

SAR	0.693	0.0100	SAR	1	B5D3009	04/30/2025	05/05/2025	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.526	0.00500	mmhos/cm	1	B5D3017	04/30/2025	05/01/2025	
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**Table 915 metals by EPA 6020B**

Arsenic	3.65	0.259	mg/kg	10	B5D3021	04/30/2025	05/01/2025	
Barium	ND	73.3	"	"	"	"	"	U
Cadmium	ND	0.339	"	"	"	"	"	U
Copper	ND	41.1	"	"	"	"	"	U
Lead	ND	12.5	"	"	"	"	"	U

Origins Laboratory

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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

GACO0429T000S008

4/29/2025 10:02:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0851-04 (Soil)  
Origins Laboratory

Table 915 metals by EPA 6020B

Nickel	ND	23.2	mg/kg	10	B5D3021	04/30/2025	05/01/2025	U
Selenium	ND	0.232	"	"	"	"	"	U
Silver	ND	0.715	"	"	"	"	"	U
Zinc	ND	331	"	"	"	"	"	U

Origins Laboratory

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North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

GACO0429T000C008

4/29/2025 10:02:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0851-05 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.538		0.0996	mg/L	1	B5D3013	04/30/2025	05/02/2025	
Chromium Hexavalent by EPA 7199									
Hexavalent Chromium	ND		0.251	mg/kg	1	B5D3006	04/30/2025	05/07/2025	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D3002	04/30/2025	04/30/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	98.1 %			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

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5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

GACO0429T000C008

4/29/2025 10:02:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0851-05 (Soil)**  
**Origins Laboratory**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	88.8 %		70-130		B5D3027	04/30/2025	04/30/2025	
Surrogate: Toluene-d8	98.6 %		70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %		70-130		"	"	"	

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5D3037	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

Origins Laboratory

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5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

GACO0429T000C008

4/29/2025 10:02:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0851-05 (Soil)**  
**Origins Laboratory**

**PAH by EPA 8270E extracted via 3580A**

Surrogate: Fluorene-d10	97.9 %		60-130	B5D3037	04/30/2025	04/30/2025	
Surrogate: Anthracene-d10	98.5 %		60-130	"	"	"	
Surrogate: Pyrene-d10	103 %		60-130	"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %		60-130	"	"	"	

**pH in Soil by 9045D**

pH	8.30		pH Units	1	B5D3017	04/30/2025	05/01/2025	
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**SAR by 20B Saturated Paste**

SAR	0.860	0.0100	SAR	1	B5D3009	04/30/2025	05/05/2025	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.730	0.00500	mmhos/cm	1	B5D3017	04/30/2025	05/01/2025	
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**Table 915 metals by EPA 6020B**

Arsenic	4.13	0.273	mg/kg	10	B5D3021	04/30/2025	05/01/2025	
Barium	ND	77.2	"	"	"	"	"	U
Cadmium	ND	0.358	"	"	"	"	"	U
Copper	ND	43.3	"	"	"	"	"	U
Lead	ND	13.2	"	"	"	"	"	U

Origins Laboratory

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5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

GACO0429T000C008

4/29/2025 10:02:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0851-05 (Soil)  
Origins Laboratory

Table 915 metals by EPA 6020B

Nickel	ND	24.5	mg/kg	10	B5D3021	04/30/2025	05/01/2025	U
Selenium	0.252	0.245	"	"	"	"	"	"
Silver	ND	0.753	"	"	"	"	"	U
Zinc	ND	348	"	"	"	"	"	U

Origins Laboratory

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5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

**GACO0429T000S009****4/29/2025 9:32:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5D0851-06 (Soil)</b> <b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
Boron	1.14		0.0993	mg/L	1	B5D3013	04/30/2025	05/02/2025	
<b>Chromium Hexavalent by EPA 7199</b>									
Hexavalent Chromium	ND		0.258	mg/kg	1	B5D3006	04/30/2025	05/07/2025	U
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D3002	04/30/2025	04/30/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	120 %			50-150		"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
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

GACO0429T000S009

4/29/2025 9:32:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0851-06 (Soil)**  
**Origins Laboratory**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	94.4 %		70-130		B5D3027	04/30/2025	04/30/2025	
Surrogate: Toluene-d8	97.9 %		70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %		70-130		"	"	"	

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B5D3037	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

Origins Laboratory

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5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

GACO0429T000S009

4/29/2025 9:32:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0851-06 (Soil)**  
**Origins Laboratory**

**PAH by EPA 8270E extracted via 3580A**

Surrogate: Fluorene-d10	98.1 %			60-130		B5D3037	04/30/2025	05/01/2025	
Surrogate: Anthracene-d10	98.7 %			60-130		"	"	"	
Surrogate: Pyrene-d10	101 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.1 %			60-130		"	"	"	

**pH in Soil by 9045D**

pH	8.36			pH Units	1	B5D3017	04/30/2025	05/01/2025	
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**SAR by 20B Saturated Paste**

SAR	1.43		0.0100	SAR	1	B5D3009	04/30/2025	05/05/2025	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.21		0.00500	mmhos/cm	1	B5D3017	04/30/2025	05/01/2025	
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**Table 915 metals by EPA 6020B**

Arsenic	3.72		0.253	mg/kg	10	B5D3021	04/30/2025	05/01/2025	
Barium	ND		71.6	"	"	"	"	"	U
Cadmium	ND		0.332	"	"	"	"	"	U
Copper	ND		40.2	"	"	"	"	"	U
Lead	ND		12.2	"	"	"	"	"	U

Origins Laboratory

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North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

GACO0429T000S009

4/29/2025 9:32:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0851-06 (Soil)**  
**Origins Laboratory**

**Table 915 metals by EPA 6020B**

Nickel	ND	22.7	mg/kg	10	B5D3021	04/30/2025	05/01/2025	U
Selenium	ND	0.227	"	"	"	"	"	U
Silver	ND	0.698	"	"	"	"	"	U
Zinc	ND	323	"	"	"	"	"	U

Origins Laboratory

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5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

GACO0429T000T004

4/29/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0851-07 (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

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: Bishop Loss of Containment

GACO0429T000T004

4/29/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0851-07 (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

GACO0429T000T004

4/29/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0851-07 (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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5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054017

Project: Bishop Loss of Containment

GACO0429T000T004

4/29/2025 7:00:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0851-07 (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	102 %			70-130		"	"	"	
Surrogate: Toluene-d8	103 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %			70-130		"	"	"	

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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
Batch B5D3006 - EPA 3060A										
Blank (B5D3006-BLK1)					Prepared: 04/30/2025 Analyzed: 05/07/2025					
Hexavalent Chromium	ND	0.250	mg/kg							U
LCS (B5D3006-BS1)					Prepared: 04/30/2025 Analyzed: 05/07/2025					
Hexavalent Chromium	2.20	0.250	mg/kg	2.50		88.1	80-120			
Matrix Spike (B5D3006-MS1)					Source: E5D0850-03 Prepared: 04/30/2025 Analyzed: 05/07/2025					
Hexavalent Chromium	0.972	0.256	mg/kg	2.56	ND	38.0	75-125			QM-07
Matrix Spike (B5D3006-MS2)					Source: E5D0850-03 Prepared: 04/30/2025 Analyzed: 05/09/2025					
Hexavalent Chromium	189	23.9	mg/kg	252	ND	75.0	75-125			
Matrix Spike Dup (B5D3006-MSD1)					Source: E5D0850-03 Prepared: 04/30/2025 Analyzed: 05/07/2025					
Hexavalent Chromium	0.911	0.250	mg/kg	2.50	ND	36.5	75-125	6.54	200	QM-07
Post Spike (B5D3006-PS1)					Source: E5D0850-03 Prepared: 04/30/2025 Analyzed: 05/07/2025					
Hexavalent Chromium	48.7		ug/L	50.0	0.00	97.5	80-120			

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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 B5D3009 - Saturated Paste Metals**

**Blank (B5D3009-BLK1)**

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

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 (B5D3009-DUP1)**

**Source: E5D0850-03**

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

Calcium PPM	78.5	10.0	mg/L		80.0			1.93	50	
SAR	ND	0.0100	SAR		7.47				200	U
Magnesium PPM	32.1	10.0	mg/L		36.9			14.0	50	
Sodium PPM	275	10.0	"		322			15.7	50	

**Batch B5D3013 - DTPA Sorbitol Preparation**

**Blank (B5D3013-BLK1)**

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

Boron	ND	0.100	mg/L							U
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**Duplicate (B5D3013-DUP1)**

**Source: E5D0850-03**

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

Boron	1.77	0.0999	mg/L		1.68			5.40	50	
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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 B5D3037 - EPA 3580**

**Blank (B5D3037-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		98.4	60-130			
Surrogate: Anthracene-d10	200		"	200		98.7	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

**LCS (B5D3037-BS1)**

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

1-Methylnaphthalene	0.198	0.002	mg/kg	0.200		99.1	70-130
2-Methylnaphthalene	0.199	0.002	"	0.200		99.4	70-130
Acenaphthene	0.199	0.020	"	0.200		99.7	70-130
Anthracene	0.196	0.020	"	0.200		98.0	70-130

Origins Laboratory

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North Little Rock AR 72118

Kyle Lawrence

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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 B5D3037 - EPA 3580****LCS (B5D3037-BS1)**

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

Benzo (a) anthracene	0.211	0.005	mg/kg	0.200		106	70-130
Benzo (a) pyrene	0.204	0.020	"	0.200		102	70-130
Benzo (b) fluoranthene	0.208	0.020	"	0.200		104	70-130
Benzo (g,h,i) perylene	0.215	0.020	"	0.200		108	70-130
Benzo (k) fluoranthene	0.208	0.020	"	0.200		104	70-130
Chrysene	0.198	0.020	"	0.200		99.1	70-130
Dibenz (a,h) anthracene	0.211	0.020	"	0.200		105	70-130
Fluoranthene	0.215	0.020	"	0.200		107	70-130
Fluorene	0.196	0.020	"	0.200		98.0	70-130
Indeno (1,2,3-cd) pyrene	0.207	0.020	"	0.200		103	70-130
Naphthalene	0.203	0.002	"	0.200		101	70-130
Phenanthrene	0.201	0.020	"	0.200		101	70-130
Pyrene	0.214	0.020	"	0.200		107	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		98.2	60-130
Surrogate: Anthracene-d10	200		"	200		98.4	60-130
Surrogate: Pyrene-d10	210		"	200		104	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130

**Matrix Spike (B5D3037-MS1)****Source: E5D0850-03**

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

1-Methylnaphthalene	0.200	0.002	mg/kg	0.200	ND	100	70-130
2-Methylnaphthalene	0.200	0.002	"	0.200	ND	100	70-130
Acenaphthene	0.193	0.020	"	0.200	0.0002	96.4	70-130
Anthracene	0.196	0.020	"	0.200	ND	98.0	70-130
Benzo (a) anthracene	0.208	0.005	"	0.200	ND	104	70-130
Benzo (a) pyrene	0.207	0.020	"	0.200	0.003	102	70-130
Benzo (b) fluoranthene	0.204	0.020	"	0.200	0.0007	102	70-130
Benzo (g,h,i) perylene	0.210	0.020	"	0.200	0.0007	105	70-130

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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 B5D3037 - EPA 3580****Matrix Spike (B5D3037-MS1)****Source: E5D0850-03**

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

Benzo (k) fluoranthene	0.197	0.020	mg/kg	0.200	ND	98.4	70-130			
Chrysene	0.204	0.020	"	0.200	0.0009	102	70-130			
Dibenz (a,h) anthracene	0.207	0.020	"	0.200	ND	103	70-130			
Fluoranthene	0.211	0.020	"	0.200	0.001	105	70-130			
Fluorene	0.197	0.020	"	0.200	0.0003	98.3	70-130			
Indeno (1,2,3-cd) pyrene	0.205	0.020	"	0.200	ND	103	70-130			
Naphthalene	0.211	0.002	"	0.200	ND	106	70-130			
Phenanthrene	0.203	0.020	"	0.200	ND	102	70-130			
Pyrene	0.209	0.020	"	0.200	0.0008	104	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.3	60-130			
Surrogate: Anthracene-d10	200		"	200		98.4	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

**Matrix Spike Dup (B5D3037-MSD1)****Source: E5D0850-03**

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

1-Methylnaphthalene	0.207	0.002	mg/kg	0.200	ND	104	70-130	3.50	20	
2-Methylnaphthalene	0.208	0.002	"	0.200	ND	104	70-130	3.90	20	
Acenaphthene	0.207	0.020	"	0.200	0.0002	103	70-130	6.93	20	
Anthracene	0.206	0.020	"	0.200	ND	103	70-130	5.11	20	
Benzo (a) anthracene	0.208	0.005	"	0.200	ND	104	70-130	0.413	20	
Benzo (a) pyrene	0.218	0.020	"	0.200	0.003	108	70-130	5.23	20	
Benzo (b) fluoranthene	0.210	0.020	"	0.200	0.0007	105	70-130	3.15	20	
Benzo (g,h,i) perylene	0.220	0.020	"	0.200	0.0007	110	70-130	4.40	20	
Benzo (k) fluoranthene	0.215	0.020	"	0.200	ND	107	70-130	8.58	20	
Chrysene	0.203	0.020	"	0.200	0.0009	101	70-130	0.364	20	
Dibenz (a,h) anthracene	0.216	0.020	"	0.200	ND	108	70-130	4.53	20	
Fluoranthene	0.220	0.020	"	0.200	0.001	109	70-130	4.07	20	

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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 B5D3037 - EPA 3580****Matrix Spike Dup (B5D3037-MSD1)****Source: E5D0850-03**

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

Fluorene	0.204	0.020	mg/kg	0.200	0.0003	102	70-130	3.37	20	
Indeno (1,2,3-cd) pyrene	0.218	0.020	"	0.200	ND	109	70-130	6.12	20	
Naphthalene	0.205	0.002	"	0.200	ND	102	70-130	2.94	20	
Phenanthrene	0.212	0.020	"	0.200	ND	106	70-130	4.28	20	
Pyrene	0.218	0.020	"	0.200	0.0008	109	70-130	4.22	20	
Surrogate: Fluorene-d10	200		ug/kg	200		98.0	60-130			
Surrogate: Anthracene-d10	200		"	200		99.4	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.8	60-130			

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

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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 B5D3021 - EPA 3050B**

**Blank (B5D3021-BLK1)**

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

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 (B5D3021-BS1)**

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

Arsenic	5.11	0.290	mg/kg	5.00		102	80-120			
Barium	541	82.0	"	500		108	80-120			
Cadmium	5.08	0.380	"	5.00		102	80-120			
Copper	54.2	46.0	"	50.0		108	80-120			
Lead	5.23	14.0	"	5.00		105	80-120			U
Nickel	5.40	26.0	"	5.00		108	80-120			U
Selenium	5.19	0.260	"	5.00		104	80-120			
Silver	5.13	0.800	"	5.00		103	80-120			
Zinc	57.0	370	"	50.0		114	80-120			U

**Matrix Spike (B5D3021-MS1)**

**Source: E5D0850-03**

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

Arsenic	9.19	0.285	mg/kg	4.91	5.27	79.6	75-125			
Barium	563	80.6	"	491	89.4	96.4	75-125			
Cadmium	5.05	0.373	"	4.91	0.286	97.0	75-125			
Copper	67.0	45.2	"	49.1	17.5	101	75-125			
Lead	13.6	13.8	"	4.91	9.33	86.3	75-125			U

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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 B5D3021 - EPA 3050B****Matrix Spike (B5D3021-MS1)****Source: E5D0850-03**

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

Nickel	13.6	25.5	mg/kg	4.91	9.63	80.6	75-125			U
Selenium	5.08	0.255	"	4.91	0.312	97.0	75-125			
Silver	5.00	0.786	"	4.91	0.0755	100	75-125			
Zinc	106	364	"	49.1	60.2	94.1	75-125			U

**Matrix Spike Dup (B5D3021-MSD1)****Source: E5D0850-03**

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

Arsenic	8.36	0.263	mg/kg	4.53	5.27	68.2	75-125	9.37	20	QM-07
Barium	516	74.3	"	453	89.4	94.2	75-125	8.69	20	
Cadmium	4.65	0.344	"	4.53	0.286	96.4	75-125	8.20	20	
Copper	63.0	41.7	"	45.3	17.5	101	75-125	6.03	20	
Lead	12.8	12.7	"	4.53	9.33	77.1	75-125	5.64	20	
Nickel	12.8	23.5	"	4.53	9.63	70.5	75-125	5.81	20	QM-07, U
Selenium	4.71	0.235	"	4.53	0.312	97.1	75-125	7.58	20	
Silver	4.57	0.725	"	4.53	0.0755	99.2	75-125	8.95	20	
Zinc	101	335	"	45.3	60.2	89.8	75-125	5.36	20	U

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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 B5D3017 - Saturated Paste pH/EC**

**Blank (B5D3017-BLK1)**

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

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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**Duplicate (B5D3017-DUP1)**

**Source: E5D0850-03**

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

Specific Conductance (EC)	2.28	0.00500	mmhos/cm	2.52			10.3	25	
pH	8.32		pH Units	8.45			1.55	25	

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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 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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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

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Kyle Lawrence

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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			

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Kyle Lawrence

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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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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			

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Kyle Lawrence

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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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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





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

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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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
<b>Batch B5D3001 - EPA 5030B (Water)</b>										
<b>Matrix Spike Dup (B5D3001-MSD1)</b>			<b>Source: E5D0807-02</b>		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





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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 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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Kyle Lawrence

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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

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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)****Blank (B5D3027-BLK1)**

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

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			

**LCS (B5D3027-BS1)**

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

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			

**Matrix Spike (B5D3027-MS1)****Source: E5D0856-05**

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

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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**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
<b>Batch B5D3027 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B5D3027-MS1)</b>			<b>Source: E5D0856-05</b>		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			
<b>Matrix Spike (B5D3027-MS2)</b>			<b>Source: E5D0850-03</b>		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			
<b>Matrix Spike Dup (B5D3027-MSD1)</b>			<b>Source: E5D0856-05</b>		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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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Kyle Lawrence

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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)**

**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			
<b>Matrix Spike Dup (B5D3027-MSD2)</b>										
				<b>Source: E5D0850-03</b>		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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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

### 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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Jen Pellegrini For Jordan A. Bynon, Project Manager