



CTEH

Kyle Lawrence

5120 North Shore Drive

North Little RockAR 72118

April 16, 2025

Project Name - Bishop Loss of Containment

Project Number - PROJ-054019

Attached are your analytical results for Bishop Loss of Containment received by Origins Laboratory April 08, 2025. This project is associated with Origins project number E5D0208-01.

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-054019

Project: Bishop Loss of Containment

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GACO0408W001	E5D0208-01	Water	April 8, 2025 10:48	04/08/2025 16:02
GACO0408W002	E5D0208-02	Water	April 8, 2025 11:38	04/08/2025 16:02
GACO0408W003	E5D0208-03	Water	April 8, 2025 12:06	04/08/2025 16:02
GACO0408W004	E5D0208-04	Water	April 8, 2025 12:57	04/08/2025 16:02
GACO0408W005	E5D0208-05	Water	April 8, 2025 14:10	04/08/2025 16:02
GACO0408F001	E5D0208-06	Water	April 8, 2025 10:36	04/08/2025 16:02
GACO0408T001	E5D0208-07	Water	April 8, 2025 10:45	04/08/2025 16:02

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-054019

Project: Bishop Loss of Containment

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: ESD0208

Client: CTEH

Client Project ID: Bishop Loss of Containment

Checklist Completed by: JAR/NKM

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 4/8/25

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid X Water Other:

Cooler Number/Temperature: 1/33.0

(Describe)

Thermometer ID: 7007

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"/>	<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 ^{(1)?}	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ^{(1)?}	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ^{(1)?}	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ^{(1)?}	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ^{(1)?}	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	*
Do the sample IDs on the bottle labels match the COC ^{(1)?}	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ^{(1)?}	<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 ^{(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"/>	<input type="checkbox"/>	<input type="checkbox"/>	NC
Additional Comments (if any): *CDC says ESD0208-06 should have 2 containers but we received 4 (3 HCL VOAS and 1 unpres poly).				

⁽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 be in the additional comments (above) and the case narrative.

Reviewed by (Project Manager): JAR

Date/Time Reviewed: 4/9/25

Origins Laboratory

Jen Pellegrini

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-054019

Project: Bishop Loss of Containment

GACO0408W001

4/8/2025 10:48:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0208-01 (Water) Origins Laboratory									
BTEX+N+TMBs by 8260D									
1,2,4-Trimethylbenzene	0.580	0.113	2.00	ug/L	1	B5D0854	04/08/2025	04/08/2025	J
1,3,5-Trimethylbenzene	ND	0.066	2.00	"	"	"	"	"	U
Benzene	ND	0.074	1.00	"	"	"	"	"	U
Ethylbenzene	ND	0.102	1.00	"	"	"	"	"	U
Naphthalene	0.230	0.128	2.00	"	"	"	"	"	J
Toluene	3.26	0.122	1.00	"	"	"	"	"	
Xylenes, total	5.00	0.258	1.00	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	102 %			70-130		"	"	"	
Surrogate: Toluene-d8	101 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	98.8 %			70-130		"	"	"	
Chloride and Sulfate By EPA 300.0									
Chloride	1360	6.22	31.2	mg/L	125	B5D1416	04/14/2025	04/14/2025	
Sulfate	1510	11.8	31.2	"	"	"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	4730		5.00	"	1	B5D0918	04/09/2025	04/15/2025	

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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

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Project Number: PROJ-054019

Project: Bishop Loss of Containment

GACO0408W002

4/8/2025 11:38:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0208-02 (Water) Origins Laboratory									
BTEX+N+TMBs by 8260D									
1,2,4-Trimethylbenzene	1.28	0.113	2.00	ug/L	1	B5D0854	04/08/2025	04/08/2025	J
1,3,5-Trimethylbenzene	ND	0.066	2.00	"	"	"	"	"	U
Benzene	ND	0.074	1.00	"	"	"	"	"	U
Ethylbenzene	0.190	0.102	1.00	"	"	"	"	"	J
Naphthalene	0.710	0.128	2.00	"	"	"	"	"	J
Toluene	2.61	0.122	1.00	"	"	"	"	"	
Xylenes, total	6.64	0.258	1.00	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	102 %			70-130		"	"	"	
Surrogate: Toluene-d8	101 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	98.8 %			70-130		"	"	"	
Chloride and Sulfate By EPA 300.0									
Chloride	910	6.22	31.2	mg/L	125	B5D1416	04/14/2025	04/14/2025	
Sulfate	1560	11.8	31.2	"	"	"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	3990		5.00	"	1	B5D0918	04/09/2025	04/15/2025	

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Project Number: PROJ-054019

Project: Bishop Loss of Containment

GACO0408W003

4/8/2025 12:06:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0208-03 (Water) Origins Laboratory									
BTEX+N+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND	0.113	2.00	ug/L	1	B5D0854	04/08/2025	04/08/2025	U
1,3,5-Trimethylbenzene	ND	0.066	2.00	"	"	"	"	"	U
Benzene	ND	0.074	1.00	"	"	"	"	"	U
Ethylbenzene	ND	0.102	1.00	"	"	"	"	"	U
Naphthalene	ND	0.128	2.00	"	"	"	"	"	U
Toluene	ND	0.122	1.00	"	"	"	"	"	U
Xylenes, total	ND	0.258	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	101 %			70-130		"	"	"	
Surrogate: Toluene-d8	100 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	98.3 %			70-130		"	"	"	
Chloride and Sulfate By EPA 300.0									
Chloride	120	6.22	31.2	mg/L	125	B5D1416	04/14/2025	04/14/2025	
Sulfate	1850	11.8	31.2	"	"	"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	3000		5.00	"	1	B5D0918	04/09/2025	04/15/2025	

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Project: Bishop Loss of Containment

GACO0408W004

4/8/2025 12:57:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0208-04 (Water) Origins Laboratory									
BTEX+N+TMBs by 8260D									
1,2,4-Trimethylbenzene	36.1	0.113	2.00	ug/L	1	B5D0854	04/08/2025	04/08/2025	
1,3,5-Trimethylbenzene	9.06	0.066	2.00	"	"	"	"	"	
Benzene	1.42	0.074	1.00	"	"	"	"	"	
Ethylbenzene	6.34	0.102	1.00	"	"	"	"	"	
Naphthalene	15.9	0.128	2.00	"	"	"	"	"	
Toluene	21.6	0.122	1.00	"	"	"	"	"	
Xylenes, total	82.3	0.258	1.00	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	101 %			70-130		"	"	"	
Surrogate: Toluene-d8	101 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.3 %			70-130		"	"	"	
Chloride and Sulfate By EPA 300.0									
Chloride	317	6.22	31.2	mg/L	125	B5D1416	04/14/2025	04/14/2025	
Sulfate	1630	11.8	31.2	"	"	"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	3150		5.00	"	1	B5D0918	04/09/2025	04/15/2025	

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Project: Bishop Loss of Containment

GACO0408W005

4/8/2025 2:10:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0208-05 (Water) Origins Laboratory									
BTEX+N+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND	0.113	2.00	ug/L	1	B5D0854	04/08/2025	04/08/2025	U
1,3,5-Trimethylbenzene	ND	0.066	2.00	"	"	"	"	"	U
Benzene	ND	0.074	1.00	"	"	"	"	"	U
Ethylbenzene	ND	0.102	1.00	"	"	"	"	"	U
Naphthalene	ND	0.128	2.00	"	"	"	"	"	U
Toluene	ND	0.122	1.00	"	"	"	"	"	U
Xylenes, total	ND	0.258	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	103 %			70-130		"	"	"	
Surrogate: Toluene-d8	100 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	98.6 %			70-130		"	"	"	
Chloride and Sulfate By EPA 300.0									
Chloride	140	6.22	31.2	mg/L	125	B5D1416	04/14/2025	04/14/2025	
Sulfate	1800	11.8	31.2	"	"	"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	3170		5.00	"	1	B5D0918	04/09/2025	04/15/2025	

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Project Number: PROJ-054019

Project: Bishop Loss of Containment

GACO0408F001

4/8/2025 10:36:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0208-06 (Water) Origins Laboratory									
BTEX+N+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND	0.113	2.00	ug/L	1	B5D0854	04/08/2025	04/08/2025	U
1,3,5-Trimethylbenzene	ND	0.066	2.00	"	"	"	"	"	U
Benzene	ND	0.074	1.00	"	"	"	"	"	U
Ethylbenzene	ND	0.102	1.00	"	"	"	"	"	U
Naphthalene	ND	0.128	2.00	"	"	"	"	"	U
Toluene	ND	0.122	1.00	"	"	"	"	"	U
Xylenes, total	ND	0.258	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	103 %			70-130		"	"	"	
Surrogate: Toluene-d8	101 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	98.5 %			70-130		"	"	"	
Chloride and Sulfate By EPA 300.0									
Chloride	ND	6.22	31.2	mg/L	125	B5D1416	04/14/2025	04/14/2025	U
Sulfate	ND	11.8	31.2	"	"	"	"	"	U
Total Dissolved Solids by 2540C									
Total Dissolved Solids	ND		5.00	"	1	B5D0918	04/09/2025	04/15/2025	U

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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-054019

Project: Bishop Loss of Containment

GACO0408T001

4/8/2025 10:45:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0208-07 (Water) Origins Laboratory									
BTEX+N+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND	0.113	2.00	ug/L	1	B5D0854	04/08/2025	04/08/2025	U
1,3,5-Trimethylbenzene	ND	0.066	2.00	"	"	"	"	"	U
Benzene	ND	0.074	1.00	"	"	"	"	"	U
Ethylbenzene	ND	0.102	1.00	"	"	"	"	"	U
Naphthalene	ND	0.128	2.00	"	"	"	"	"	U
Toluene	ND	0.122	1.00	"	"	"	"	"	U
Xylenes, total	ND	0.258	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	103 %			70-130		"	"	"	
Surrogate: Toluene-d8	100 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.4 %			70-130		"	"	"	

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Project Number: PROJ-054019

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
Batch B5D0918 - NO PREP										
Blank (B5D0918-BLK1)					Prepared: 04/09/2025 Analyzed: 04/15/2025					
Total Dissolved Solids	ND	5.00	mg/L							U
LCS (B5D0918-BS1)					Prepared: 04/09/2025 Analyzed: 04/15/2025					
Total Dissolved Solids	976	5.00	mg/L	1010		96.6	90-110			
Duplicate (B5D0918-DUP1)					Source: E5D0207-01 Prepared: 04/09/2025 Analyzed: 04/15/2025					
Total Dissolved Solids	326	5.00	mg/L		322			1.23	10	
Batch B5D1416 - Default Prep GenChem										
Blank (B5D1416-BLK1)					Prepared: 04/14/2025 Analyzed: 04/14/2025					
Chloride	ND	0.250	mg/L							U
Sulfate	ND	0.250	"							U
LCS (B5D1416-BS1)					Prepared: 04/14/2025 Analyzed: 04/14/2025					
Chloride	4.03	0.250	mg/L	4.00		101	90-110			
Sulfate	4.01	0.250	"	4.00		100	90-110			
Matrix Spike (B5D1416-MS1)					Source: E5D0208-01 Prepared: 04/14/2025 Analyzed: 04/14/2025					
Chloride	1840		mg/L	500	1360	95.4	90-110			
Sulfate	1890		"	500	1510	76.4	90-110			
Matrix Spike Dup (B5D1416-MSD1)					Source: E5D0208-01 Prepared: 04/14/2025 Analyzed: 04/14/2025					
Chloride	1850		mg/L	500	1360	97.5	90-110	0.593	5	
Sulfate	1900		"	500	1510	76.5	90-110	0.0251	5	

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Project Number: PROJ-054019

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 B5D0854 - EPA 5030B (Water)**Blank (B5D0854-BLK1)**

Prepared: 04/08/2025 Analyzed: 04/08/2025

1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	70-130			

LCS (B5D0854-BS1)

Prepared: 04/08/2025 Analyzed: 04/08/2025

1,2,4-Trimethylbenzene	52.9	2.00	ug/L	50.0		106	70-130			
1,3,5-Trimethylbenzene	52.7	2.00	"	50.0		105	70-130			
Benzene	50.6	1.00	"	50.0		101	70-130			
Ethylbenzene	49.0	1.00	"	50.0		97.9	70-130			
m,p-Xylene	101	2.00	"	100		101	70-130			
Naphthalene	50.9	2.00	"	50.0		102	70-130			
o-Xylene	53.8	1.00	"	50.0		108	70-130			
Toluene	50.4	1.00	"	50.0		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Matrix Spike (B5D0854-MS1)

Source: E5D0197-01

Prepared: 04/08/2025 Analyzed: 04/08/2025

1,2,4-Trimethylbenzene	56.9	2.00	ug/L	50.0	ND	114	70-130			
1,3,5-Trimethylbenzene	56.7	2.00	"	50.0	ND	113	70-130			

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Project Number: PROJ-054019

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 B5D0854 - EPA 5030B (Water)**Matrix Spike (B5D0854-MS1)****Source: E5D0197-01**

Prepared: 04/08/2025 Analyzed: 04/08/2025

Benzene	52.0	1.00	ug/L	50.0	ND	104	70-130			
Ethylbenzene	52.8	1.00	"	50.0	ND	106	70-130			
m,p-Xylene	109	2.00	"	100	ND	109	70-130			
Naphthalene	50.1	2.00	"	50.0	ND	100	70-130			
o-Xylene	57.3	1.00	"	50.0	ND	115	70-130			
Toluene	52.9	1.00	"	50.0	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.6	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Matrix Spike Dup (B5D0854-MSD1)**Source: E5D0197-01**

Prepared: 04/08/2025 Analyzed: 04/08/2025

1,2,4-Trimethylbenzene	55.4	2.00	ug/L	50.0	ND	111	70-130	2.69	20	
1,3,5-Trimethylbenzene	55.3	2.00	"	50.0	ND	111	70-130	2.50	20	
Benzene	51.5	1.00	"	50.0	ND	103	70-130	0.986	20	
Ethylbenzene	51.3	1.00	"	50.0	ND	103	70-130	3.02	20	
m,p-Xylene	106	2.00	"	100	ND	106	70-130	2.95	20	
Naphthalene	52.1	2.00	"	50.0	ND	104	70-130	3.86	20	
o-Xylene	56.0	1.00	"	50.0	ND	112	70-130	2.45	20	
Toluene	52.2	1.00	"	50.0	ND	104	70-130	1.41	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.2	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory

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-054019

Project: Bishop Loss of Containment

Notes and Definitions

U Sample is Non-Detect.

J Sample result was found between MDL and RL

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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