



**CTEH**

**Kyle Lawrence**

**5120 North Shore Drive**

**North Little RockAR 72118**

**April 15, 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 09, 2025. This project is associated with Origins project number E5D0256-01.

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
GACO0409W001	E5D0256-01	Water	April 9, 2025 8:48	04/09/2025 17:10
GACO0409V001	E5D0256-02	Water	April 9, 2025 8:48	04/09/2025 17:10
GACO0409F001	E5D0256-03	Water	April 9, 2025 10:20	04/09/2025 17:10
GACO0409W002	E5D0256-04	Water	April 9, 2025 11:16	04/09/2025 17:10
GACO0409W003	E5D0256-05	Water	April 9, 2025 11:39	04/09/2025 17:10
GACO0409W004	E5D0256-06	Water	April 9, 2025 13:31	04/09/2025 17:10
GACO0409W005	E5D0256-07	Water	April 9, 2025 14:06	04/09/2025 17:10
GACO0409T001	E5D0256-08	Water	April 9, 2025 13:07	04/09/2025 17:10

Origins Laboratory

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Jen Pellegrini For Jordan A. Bynon, Project Manager

# ORIGINS LABORATORY

CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054019

Project: Bishop Loss of Containment

Page 1 of 1

ESD0256

ORIGINS  
LABORATORY

Client: CTEH  
Address: 5120 North Shore Drive  
Telephone Number: 419-346-7744  
Email Address: kylawrence@cteh.com or jordan.bynon@cteh.com

Project Manager: Kyle Lawrence / Casey Neal  
Project Name: Bishop Loss of Containment  
Project Number: PROJ-054019  
Collected By: Casey Neal  
Invoice/Billing Info: ctehap@montrose-env.com

(Key)  
W=Water  
GW=Groundwater  
SW=Surface Water  
WW=Waste Water  
L=Liquid

Sesol: SO=Solid | Q=Oil | A=Air | G=Gas | UNP=Unpres | HCl=Hydrochloric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis	Comments
GAC004091W001	04/09/25	0845	8	SW	6.4 14.1 H2O2 up	X X X X X X X X	
GAC004091W002	04/09/25	0848	8	SW	6.4 14.1 H2O2 up	X X X X X X X X	
GAC004091F001	04/09/25	1030	8	N	6.4 14.1 H2O2 up	X X X X X X X X	
GAC004091W003	04/09/25	1116	8	SW	6.4 14.1 H2O2 up	X X X X X X X X	
GAC004091W003	04/09/25	1139	8	SW	6.4 14.1 H2O2 up	X X X X X X X X	
GAC004091W004	04/09/25	1331	8	SW	6.4 14.1 H2O2 up	X X X X X X X X	
GAC004091W005	04/09/25	1406	8	SW	6.4 14.1 H2O2 up	X X X X X X X X	
GAC004091T001	04/09/25	1307	1	L	HL	X X X X X X X X	

Relinquished By: Casey Neal / CTEH Date: 04/09/25 Time: 1505  
Relinquished By: Spencer Beghtol / CTEH Date: 04/09/25 Time: 1548

Received By: Spencer Beghtol Date: 04/09/25 Time: 1505  
Received By: VK Date: 04/09/25 Time: 1548

Turnaround Time  
☐ SAME DAY  
☒ 24 Hr  
☐ 48 Hr  
☐ 72  
☐ Standard

Temp Received: 17.10 Received On Ice? ☒ Yes ☐ No

04/09/25 17:10 NKM

Origins Laboratory

*Jefe Pellegrini*

Jen Pellegrini For Jordan A. Bynon, Project Manager

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# ORIGINS

## LABORATORY

CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054019

Project: Bishop Loss of Containment

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

### Sample Receipt Checklist

Origins Work Order: ESD0256

Client: CTEH

Client Project ID: Bishop Loss of Containment

Checklist Completed by: NKM/NB

Shipped Via: HD

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

Date/time completed: 04 / 09 / 25

Airbill #: N/A

Matrix(s) Received: (Check all that apply):

Soil/Solid

☒

Water

Other:

(Describe)

Cooler Number/Temperature: 1 / 3.9 °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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		*
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>if yes, contact client and note in narrative.</b>		<input checked="" 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"/>			NC
Additional Comments (if any): <u>Not enough volume to run CrVI, client notified via email on 4/10/25 ds</u>				

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

Reviewed by (Project Manager) NB

4 / 9 / 25  
Date/Time Reviewed

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

GACO0409W001

4/9/2025 8:48:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0256-01 (Water)  
Enthalpy Analytical**

**Total Metals by EPA 200.8**

Arsenic	1.32	1.00	2.00	ug/L	2	BID0624	04/11/2025	04/14/2025	Ja
Barium	63.9	2.00	10.0	"	"	"	"	"	
Cadmium	ND	0.200	2.00	"	"	"	"	"	
Copper	1.86	0.600	2.00	"	"	"	"	"	Ja
Lead	ND	0.400	2.00	"	"	"	"	"	
Nickel	3.45	0.600	2.00	"	"	"	"	"	
Selenium	10.4	1.70	2.00	"	"	"	"	"	
Silver	ND	0.120	0.200	"	"	"	"	"	
Zinc	ND	5.00	10.0	"	"	"	"	"	

**Origins Laboratory**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.113	2.00	ug/L	1	B5D0952	04/09/2025	04/09/2025	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

Origins Laboratory

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Jen Pellegrini For Jordan A. Bynon, Project Manager



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GACO0409W001

4/9/2025 8:48:00AM

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

**E5D0256-01 (Water)**  
**Origins Laboratory**

**BTEX+N+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	83.9 %			70-130		B5D0952	04/09/2025	04/09/2025	
Surrogate: Toluene-d8	95.9 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	80.3 %			70-130		"	"	"	

**Chloride and Sulfate By EPA 300.0**

Chloride	208	6.22	31.2	mg/L	125	B5D1416	04/14/2025	04/14/2025	
Sulfate	1750	11.8	31.2	"	"	"	"	"	

**PAH by EPA 8270E extracted via 3511**

1-Methylnaphthalene	0.495	0.116	0.200	ug/L	1	B5D1042	04/10/2025	04/10/2025	
2-Methylnaphthalene	0.496	0.182	0.200	"	"	"	"	"	
Acenaphthene	ND	0.160	2.00	"	"	"	"	"	U
Anthracene	ND	0.301	2.00	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.917	1.00	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.341	2.00	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.594	2.00	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.590	2.00	"	"	"	"	"	U
Chrysene	ND	0.284	2.00	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.317	2.00	"	"	"	"	"	U
Fluoranthene	ND	0.126	2.00	"	"	"	"	"	U

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GACO0409W001

4/9/2025 8:48:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0256-01 (Water) Origins Laboratory									
PAH by EPA 8270E extracted via 3511									
Fluorene	ND	0.173	2.00	ug/L	1	B5D1042	04/10/2025	04/10/2025	U
Indeno (1,2,3-cd) pyrene	ND	0.700	2.00	"	"	"	"	"	U
Naphthalene	0.512	0.150	0.200	"	"	"	"	"	
Pyrene	ND	0.735	20.0	"	"	"	"	"	U
Surrogate: Fluorene-d10	106 %			60-130		"	"	"	
Surrogate: Anthracene-d10	95.2 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.2 %			60-130		"	"	"	
Surrogate: Pyrene-d10	99.8 %			60-130		"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	3060		5.00	mg/L	1	B5D1016	04/10/2025	04/14/2025	

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Project Number: PROJ-054019

Project: Bishop Loss of Containment

GACO0409V001

4/9/2025 8:48:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0256-02 (Water)  
Enthalpy Analytical**

**Total Metals by EPA 200.8**

Arsenic	1.20	1.00	2.00	ug/L	2	BID0624	04/11/2025	04/14/2025	Ja
Barium	62.0	2.00	10.0	"	"	"	"	"	
Cadmium	ND	0.200	2.00	"	"	"	"	"	
Copper	1.56	0.600	2.00	"	"	"	"	"	Ja
Lead	ND	0.400	2.00	"	"	"	"	"	
Nickel	3.45	0.600	2.00	"	"	"	"	"	
Selenium	10.1	1.70	2.00	"	"	"	"	"	
Silver	ND	0.120	0.200	"	"	"	"	"	
Zinc	ND	5.00	10.0	"	"	"	"	"	

**Origins Laboratory**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.113	2.00	ug/L	1	B5D0952	04/09/2025	04/09/2025	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

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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Project Number: PROJ-054019

Project: Bishop Loss of Containment

GACO0409V001

4/9/2025 8:48:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0256-02 (Water)**  
**Origins Laboratory**

**BTEX+N+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	86.5 %			70-130		B5D0952	04/09/2025	04/09/2025	
Surrogate: Toluene-d8	96.2 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	78.5 %			70-130		"	"	"	

**Chloride and Sulfate By EPA 300.0**

Chloride	202	6.22	31.2	mg/L	125	B5D1416	04/14/2025	04/14/2025	
Sulfate	1740	11.8	31.2	"	"	"	"	"	

**PAH by EPA 8270E extracted via 3511**

1-Methylnaphthalene	0.502	0.116	0.200	ug/L	1	B5D1042	04/10/2025	04/10/2025	
2-Methylnaphthalene	0.570	0.182	0.200	"	"	"	"	"	
Acenaphthene	ND	0.160	2.00	"	"	"	"	"	U
Anthracene	ND	0.301	2.00	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.917	1.00	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.341	2.00	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.594	2.00	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.590	2.00	"	"	"	"	"	U
Chrysene	ND	0.284	2.00	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.317	2.00	"	"	"	"	"	U
Fluoranthene	ND	0.126	2.00	"	"	"	"	"	U

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Project Number: PROJ-054019

Project: Bishop Loss of Containment

GACO0409V001

4/9/2025 8:48:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5D0256-02 (Water)</b> <b>Origins Laboratory</b>									
<b>PAH by EPA 8270E extracted via 3511</b>									
Fluorene	ND	0.173	2.00	ug/L	1	B5D1042	04/10/2025	04/10/2025	U
Indeno (1,2,3-cd) pyrene	ND	0.700	2.00	"	"	"	"	"	U
Naphthalene	0.532	0.150	0.200	"	"	"	"	"	
Pyrene	ND	0.735	20.0	"	"	"	"	"	U
Surrogate: Fluorene-d10	106 %			60-130		"	"	"	
Surrogate: Anthracene-d10	96.4 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	96.7 %			60-130		"	"	"	
Surrogate: Pyrene-d10	100 %			60-130		"	"	"	
<b>Total Dissolved Solids by 2540C</b>									
Total Dissolved Solids	2950		5.00	mg/L	1	B5D1016	04/10/2025	04/14/2025	

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-054019

Project: Bishop Loss of Containment

GACO0409F001

4/9/2025 10:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0256-03 (Water)  
Enthalpy Analytical**

**Total Metals by EPA 200.8**

Arsenic	ND	1.00	2.00	ug/L	2	BID0624	04/11/2025	04/14/2025	
Barium	ND	2.00	10.0	"	"	"	"	"	
Cadmium	ND	0.200	2.00	"	"	"	"	"	
Copper	ND	0.600	2.00	"	"	"	"	"	
Lead	ND	0.400	2.00	"	"	"	"	"	
Nickel	ND	0.600	2.00	"	"	"	"	"	
Selenium	ND	1.70	2.00	"	"	"	"	"	
Silver	ND	0.120	0.200	"	"	"	"	"	
Zinc	ND	5.00	10.0	"	"	"	"	"	

**Origins Laboratory**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.113	2.00	ug/L	1	B5D0952	04/09/2025	04/09/2025	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

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5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054019

Project: Bishop Loss of Containment

GACO0409F001

4/9/2025 10:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0256-03 (Water)**  
**Origins Laboratory**

**BTEX+N+TMBs by 8260D**

Xylenes, total	ND	0.258	1.00	ug/L	1	B5D0952	04/09/2025	04/09/2025	U
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Surrogate: 1,2-Dichloroethane-d4

86.6 %

70-130

"

"

"

Surrogate: Toluene-d8

97.6 %

70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

79.1 %

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
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Sulfate	ND	11.8	31.2	"	"	"	"	"	U
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**PAH by EPA 8270E extracted via 3511**

1-Methylnaphthalene	ND	0.116	0.200	ug/L	1	B5D1042	04/10/2025	04/10/2025	U
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2-Methylnaphthalene	ND	0.182	0.200	"	"	"	"	"	U
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Acenaphthene	ND	0.160	2.00	"	"	"	"	"	U
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Anthracene	ND	0.301	2.00	"	"	"	"	"	U
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Benzo (a) anthracene	ND	0.917	1.00	"	"	"	"	"	U
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Benzo (a) pyrene	ND	0.341	2.00	"	"	"	"	"	U
------------------	----	-------	------	---	---	---	---	---	---

Benzo (b) fluoranthene	ND	0.594	2.00	"	"	"	"	"	U
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Benzo (k) fluoranthene	ND	0.590	2.00	"	"	"	"	"	U
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Chrysene	ND	0.284	2.00	"	"	"	"	"	U
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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-054019

Project: Bishop Loss of Containment

GACO0409F001

4/9/2025 10:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0256-03 (Water) Origins Laboratory									
PAH by EPA 8270E extracted via 3511									
Dibenz (a,h) anthracene	ND	0.317	2.00	ug/L	1	B5D1042	04/10/2025	04/10/2025	U
Fluoranthene	ND	0.126	2.00	"	"	"	"	"	U
Fluorene	ND	0.173	2.00	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.700	2.00	"	"	"	"	"	U
Naphthalene	ND	0.150	0.200	"	"	"	"	"	U
Pyrene	ND	0.735	20.0	"	"	"	"	"	U
Surrogate: Fluorene-d10	106 %			60-130		"	"	"	
Surrogate: Anthracene-d10	99.1 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.5 %			60-130		"	"	"	
Surrogate: Pyrene-d10	97.6 %			60-130		"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	12.0		5.00	mg/L	1	B5D1016	04/10/2025	04/14/2025	

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-054019

Project: Bishop Loss of Containment

GACO0409W002

4/9/2025 11:16:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0256-04 (Water)**  
**Enthalpy Analytical**

**Total Metals by EPA 200.8**

Arsenic	1.40	1.00	2.00	ug/L	2	BID0624	04/11/2025	04/14/2025	Ja
Barium	65.4	2.00	10.0	"	"	"	"	"	
Cadmium	ND	0.200	2.00	"	"	"	"	"	
Copper	1.82	0.600	2.00	"	"	"	"	"	Ja
Lead	ND	0.400	2.00	"	"	"	"	"	
Nickel	3.54	0.600	2.00	"	"	"	"	"	
Selenium	9.81	1.70	2.00	"	"	"	"	"	
Silver	ND	0.120	0.200	"	"	"	"	"	
Zinc	ND	5.00	10.0	"	"	"	"	"	

**Origins Laboratory**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.113	2.00	ug/L	1	B5D0952	04/09/2025	04/09/2025	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

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-054019

Project: Bishop Loss of Containment

GACO0409W002

4/9/2025 11:16:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0256-04 (Water)**  
**Origins Laboratory**

**BTEX+N+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	86.1 %			70-130		B5D0952	04/09/2025	04/09/2025	
Surrogate: Toluene-d8	96.6 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	78.9 %			70-130		"	"	"	

**Chloride and Sulfate By EPA 300.0**

Chloride	199	6.22	31.2	mg/L	125	B5D1416	04/14/2025	04/14/2025	
Sulfate	1620	11.8	31.2	"	"	"	"	"	

**PAH by EPA 8270E extracted via 3511**

1-Methylnaphthalene	0.425	0.116	0.200	ug/L	1	B5D1042	04/10/2025	04/10/2025	
2-Methylnaphthalene	0.403	0.182	0.200	"	"	"	"	"	
Acenaphthene	ND	0.160	2.00	"	"	"	"	"	U
Anthracene	ND	0.301	2.00	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.917	1.00	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.341	2.00	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.594	2.00	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.590	2.00	"	"	"	"	"	U
Chrysene	ND	0.284	2.00	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.317	2.00	"	"	"	"	"	U
Fluoranthene	ND	0.126	2.00	"	"	"	"	"	U

Origins Laboratory

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Jen Pellegrini For Jordan A. Bynon, Project Manager



CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054019

Project: Bishop Loss of Containment

GACO0409W002

4/9/2025 11:16:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5D0256-04 (Water)</b> <b>Origins Laboratory</b>									
<b>PAH by EPA 8270E extracted via 3511</b>									
Fluorene	ND	0.173	2.00	ug/L	1	B5D1042	04/10/2025	04/10/2025	U
Indeno (1,2,3-cd) pyrene	ND	0.700	2.00	"	"	"	"	"	U
Naphthalene	0.348	0.150	0.200	"	"	"	"	"	
Pyrene	ND	0.735	20.0	"	"	"	"	"	U
Surrogate: Fluorene-d10	103 %			60-130		"	"	"	
Surrogate: Anthracene-d10	97.7 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %			60-130		"	"	"	
Surrogate: Pyrene-d10	111 %			60-130		"	"	"	
<b>Total Dissolved Solids by 2540C</b>									
Total Dissolved Solids	2800		5.00	mg/L	1	B5D1016	04/10/2025	04/14/2025	

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-054019

Project: Bishop Loss of Containment

GACO0409W003

4/9/2025 11:39:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0256-05 (Water)  
Enthalpy Analytical**

**Total Metals by EPA 200.8**

Arsenic	1.02	1.00	2.00	ug/L	2	BID0624	04/11/2025	04/14/2025	Ja
Barium	12.8	2.00	10.0	"	"	"	"	"	
Cadmium	ND	0.200	2.00	"	"	"	"	"	
Copper	1.12	0.600	2.00	"	"	"	"	"	Ja
Lead	ND	0.400	2.00	"	"	"	"	"	
Nickel	2.23	0.600	2.00	"	"	"	"	"	
Selenium	11.8	1.70	2.00	"	"	"	"	"	
Silver	ND	0.120	0.200	"	"	"	"	"	
Zinc	ND	5.00	10.0	"	"	"	"	"	

**Origins Laboratory**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.113	2.00	ug/L	1	B5D0952	04/09/2025	04/09/2025	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

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-054019

Project: Bishop Loss of Containment

GACO0409W003

4/9/2025 11:39:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0256-05 (Water)**  
**Origins Laboratory**

**BTEX+N+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	88.1 %			70-130		B5D0952	04/09/2025	04/09/2025	
Surrogate: Toluene-d8	97.5 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	79.0 %			70-130		"	"	"	

**Chloride and Sulfate By EPA 300.0**

Chloride	121	6.22	31.2	mg/L	125	B5D1416	04/14/2025	04/14/2025	
Sulfate	1890	11.8	31.2	"	"	"	"	"	

**PAH by EPA 8270E extracted via 3511**

1-Methylnaphthalene	ND	0.116	0.200	ug/L	1	B5D1042	04/10/2025	04/10/2025	U
2-Methylnaphthalene	ND	0.182	0.200	"	"	"	"	"	U
Acenaphthene	ND	0.160	2.00	"	"	"	"	"	U
Anthracene	ND	0.301	2.00	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.917	1.00	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.341	2.00	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.594	2.00	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.590	2.00	"	"	"	"	"	U
Chrysene	ND	0.284	2.00	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.317	2.00	"	"	"	"	"	U
Fluoranthene	ND	0.126	2.00	"	"	"	"	"	U

Origins Laboratory

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Jen Pellegrini For Jordan A. Bynon, Project Manager



CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054019

Project: Bishop Loss of Containment

GACO0409W003

4/9/2025 11:39:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0256-05 (Water) Origins Laboratory									
PAH by EPA 8270E extracted via 3511									
Fluorene	ND	0.173	2.00	ug/L	1	B5D1042	04/10/2025	04/10/2025	U
Indeno (1,2,3-cd) pyrene	ND	0.700	2.00	"	"	"	"	"	U
Naphthalene	ND	0.150	0.200	"	"	"	"	"	U
Pyrene	ND	0.735	20.0	"	"	"	"	"	U
Surrogate: Fluorene-d10	101 %			60-130		"	"	"	
Surrogate: Anthracene-d10	98.5 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %			60-130		"	"	"	
Surrogate: Pyrene-d10	112 %			60-130		"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	2980		5.00	mg/L	1	B5D1016	04/10/2025	04/14/2025	

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-054019

Project: Bishop Loss of Containment

GACO0409W004

4/9/2025 1:31:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0256-06 (Water)**  
**Enthalpy Analytical**

**Total Metals by EPA 200.8**

Arsenic	1.89	1.00	2.00	ug/L	2	BID0624	04/11/2025	04/14/2025	Ja
Barium	85.6	2.00	10.0	"	"	"	"	"	
Cadmium	ND	0.200	2.00	"	"	"	"	"	
Copper	2.33	0.600	2.00	"	"	"	"	"	
Lead	0.458	0.400	2.00	"	"	"	"	"	Ja
Nickel	3.89	0.600	2.00	"	"	"	"	"	
Selenium	4.51	1.70	2.00	"	"	"	"	"	
Silver	ND	0.120	0.200	"	"	"	"	"	
Zinc	ND	5.00	10.0	"	"	"	"	"	

**Origins Laboratory**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	4.23	0.113	2.00	ug/L	1	B5D0952	04/09/2025	04/09/2025	
1,3,5-Trimethylbenzene	0.930	0.066	2.00	"	"	"	"	"	J
Benzene	ND	0.074	1.00	"	"	"	"	"	U
Ethylbenzene	ND	0.102	1.00	"	"	"	"	"	U
Naphthalene	2.03	0.128	2.00	"	"	"	"	"	
Toluene	ND	0.122	1.00	"	"	"	"	"	U
Xylenes, total	5.52	0.258	1.00	"	"	"	"	"	

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-054019

Project: Bishop Loss of Containment

GACO0409W004

4/9/2025 1:31:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0256-06 (Water)**  
**Origins Laboratory**

**BTEX+N+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	86.5 %			70-130		B5D0952	04/09/2025	04/09/2025	
Surrogate: Toluene-d8	97.1 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	78.8 %			70-130		"	"	"	

**Chloride and Sulfate By EPA 300.0**

Chloride	170	6.22	31.2	mg/L	125	B5D1416	04/14/2025	04/14/2025	
Sulfate	1410	11.8	31.2	"	"	"	"	"	

**PAH by EPA 8270E extracted via 3511**

1-Methylnaphthalene	4.54	0.116	0.200	ug/L	1	B5D1042	04/10/2025	04/10/2025	
2-Methylnaphthalene	4.16	0.182	0.200	"	"	"	"	"	
Acenaphthene	ND	0.160	2.00	"	"	"	"	"	U
Anthracene	ND	0.301	2.00	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.917	1.00	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.341	2.00	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.594	2.00	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.590	2.00	"	"	"	"	"	U
Chrysene	ND	0.284	2.00	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.317	2.00	"	"	"	"	"	U
Fluoranthene	ND	0.126	2.00	"	"	"	"	"	U

Origins Laboratory

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Jen Pellegrini For Jordan A. Bynon, Project Manager



CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054019

Project: Bishop Loss of Containment

GACO0409W004

4/9/2025 1:31:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0256-06 (Water) Origins Laboratory									
PAH by EPA 8270E extracted via 3511									
Fluorene	0.366	0.173	2.00	ug/L	1	B5D1042	04/10/2025	04/10/2025	J
Indeno (1,2,3-cd) pyrene	ND	0.700	2.00	"	"	"	"	"	U
Naphthalene	3.71	0.150	0.200	"	"	"	"	"	
Pyrene	ND	0.735	20.0	"	"	"	"	"	U
Surrogate: Fluorene-d10	102 %			60-130		"	"	"	
Surrogate: Anthracene-d10	100 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %			60-130		"	"	"	
Surrogate: Pyrene-d10	111 %			60-130		"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	2520		5.00	mg/L	1	B5D1016	04/10/2025	04/14/2025	

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-054019

Project: Bishop Loss of Containment

GACO0409W005

4/9/2025 2:06:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0256-07 (Water)  
Enthalpy Analytical**

**Total Metals by EPA 200.8**

Arsenic	1.91	1.00	2.00	ug/L	2	BID0624	04/11/2025	04/14/2025	Ja
Barium	64.6	2.00	10.0	"	"	"	"	"	
Cadmium	ND	0.200	2.00	"	"	"	"	"	
Copper	3.71	0.600	2.00	"	"	"	"	"	
Lead	0.484	0.400	2.00	"	"	"	"	"	Ja
Nickel	6.82	0.600	2.00	"	"	"	"	"	
Selenium	10.1	1.70	2.00	"	"	"	"	"	
Silver	ND	0.120	0.200	"	"	"	"	"	
Zinc	6.09	5.00	10.0	"	"	"	"	"	Ja

**Origins Laboratory**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.113	2.00	ug/L	1	B5D0952	04/09/2025	04/09/2025	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

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-054019

Project: Bishop Loss of Containment

GACO0409W005

4/9/2025 2:06:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0256-07 (Water)**  
**Origins Laboratory**

**BTEX+N+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	83.8 %			70-130		B5D0952	04/09/2025	04/09/2025	
Surrogate: Toluene-d8	97.1 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	78.8 %			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	1830	11.8	31.2	"	"	"	"	"	

**PAH by EPA 8270E extracted via 3511**

1-Methylnaphthalene	ND	0.116	0.200	ug/L	1	B5D1042	04/10/2025	04/10/2025	U
2-Methylnaphthalene	ND	0.182	0.200	"	"	"	"	"	U
Acenaphthene	ND	0.160	2.00	"	"	"	"	"	U
Anthracene	ND	0.301	2.00	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.917	1.00	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.341	2.00	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.594	2.00	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.590	2.00	"	"	"	"	"	U
Chrysene	ND	0.284	2.00	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.317	2.00	"	"	"	"	"	U
Fluoranthene	ND	0.126	2.00	"	"	"	"	"	U

Origins Laboratory

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Jen Pellegrini For Jordan A. Bynon, Project Manager



CTEH

5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054019

Project: Bishop Loss of Containment

GACO0409W005

4/9/2025 2:06:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0256-07 (Water) Origins Laboratory									
PAH by EPA 8270E extracted via 3511									
Fluorene	ND	0.173	2.00	ug/L	1	B5D1042	04/10/2025	04/10/2025	U
Indeno (1,2,3-cd) pyrene	ND	0.700	2.00	"	"	"	"	"	U
Naphthalene	ND	0.150	0.200	"	"	"	"	"	U
Pyrene	ND	0.735	20.0	"	"	"	"	"	U
Surrogate: Fluorene-d10	102 %			60-130		"	"	"	
Surrogate: Anthracene-d10	97.2 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %			60-130		"	"	"	
Surrogate: Pyrene-d10	110 %			60-130		"	"	"	
Total Dissolved Solids by 2540C									
Total Dissolved Solids	3100		5.00	mg/L	1	B5D1016	04/10/2025	04/14/2025	

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-054019

Project: Bishop Loss of Containment

GACO0409T001

4/9/2025 1:07:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0256-08 (Water)**  
**Origins Laboratory**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.113	2.00	ug/L	1	B5D0952	04/09/2025	04/09/2025	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

88.1 %

70-130

"

"

"

Surrogate: Toluene-d8

97.2 %

70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

79.3 %

70-130

"

"

"

**PAH by EPA 8270E extracted via 3511**

1-Methylnaphthalene	ND	0.116	0.200	ug/L	1	B5D1042	04/10/2025	04/10/2025	U
2-Methylnaphthalene	ND	0.182	0.200	"	"	"	"	"	U
Acenaphthene	ND	0.160	2.00	"	"	"	"	"	U
Anthracene	ND	0.301	2.00	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.917	1.00	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.341	2.00	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.594	2.00	"	"	"	"	"	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-054019

Project: Bishop Loss of Containment

GACO0409T001

4/9/2025 1:07:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0256-08 (Water) Origins Laboratory									
PAH by EPA 8270E extracted via 3511									
Benzo (k) fluoranthene	ND	0.590	2.00	ug/L	1	B5D1042	04/10/2025	04/10/2025	U
Chrysene	ND	0.284	2.00	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.317	2.00	"	"	"	"	"	U
Fluoranthene	ND	0.126	2.00	"	"	"	"	"	U
Fluorene	ND	0.173	2.00	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.700	2.00	"	"	"	"	"	U
Naphthalene	ND	0.150	0.200	"	"	"	"	"	U
Pyrene	ND	0.735	20.0	"	"	"	"	"	U
Surrogate: Fluorene-d10	102 %			60-130		"	"	"	
Surrogate: Anthracene-d10	102 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %			60-130		"	"	"	
Surrogate: Pyrene-d10	108 %			60-130		"	"	"	

Origins Laboratory

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5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

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
<b>Batch B5D1016 - NO PREP</b>										
<b>Blank (B5D1016-BLK1)</b>					Prepared: 04/10/2025 Analyzed: 04/14/2025					
Total Dissolved Solids	ND	5.00	mg/L							U
<b>LCS (B5D1016-BS1)</b>					Prepared: 04/10/2025 Analyzed: 04/14/2025					
Total Dissolved Solids	976	5.00	mg/L	1010		96.6	90-110			
<b>Duplicate (B5D1016-DUP1)</b>					Source: E5D0250-01 Prepared: 04/10/2025 Analyzed: 04/14/2025					
Total Dissolved Solids	1280	5.00	mg/L		1290			0.468	10	
<b>Batch B5D1416 - Default Prep GenChem</b>										
<b>Blank (B5D1416-BLK1)</b>					Prepared: 04/14/2025 Analyzed: 04/14/2025					
Chloride	ND	0.250	mg/L							U
Sulfate	ND	0.250	"							U
<b>LCS (B5D1416-BS1)</b>					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			
<b>Matrix Spike (B5D1416-MS1)</b>					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			
<b>Matrix Spike Dup (B5D1416-MSD1)</b>					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	

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

**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 B5D1042 - EPA 3510C\_MS****Blank (B5D1042-BLK1)**

Prepared: 04/10/2025 Analyzed: 04/10/2025

1-Methylnaphthalene	ND	0.200	ug/L							U
2-Methylnaphthalene	ND	0.200	"							U
Acenaphthene	ND	2.00	"							U
Anthracene	ND	2.00	"							U
Benzo (a) anthracene	ND	1.00	"							U
Benzo (a) pyrene	ND	2.00	"							U
Benzo (b) fluoranthene	ND	2.00	"							U
Benzo (g,h,i) perylene	ND	2.00	"							U
Benzo (k) fluoranthene	ND	2.00	"							U
Chrysene	ND	2.00	"							U
Dibenz (a,h) anthracene	ND	2.00	"							U
Fluoranthene	ND	2.00	"							U
Fluorene	ND	2.00	"							U
Indeno (1,2,3-cd) pyrene	ND	2.00	"							U
Naphthalene	ND	0.200	"							U
Phenanthrene	ND	20.0	"							U
Pyrene	ND	20.0	"							U
Surrogate: Fluorene-d10	210		"	200		104	60-130			
Surrogate: Anthracene-d10	190		"	200		97.3	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.4	60-130			
Surrogate: Pyrene-d10	200		"	200		98.0	60-130			

**LCS (B5D1042-BS1)**

Prepared: 04/10/2025 Analyzed: 04/10/2025

1-Methylnaphthalene	18.2	0.200	ug/L	20.0		91.1	70-130			
2-Methylnaphthalene	18.0	0.200	"	20.0		90.2	70-130			
Acenaphthene	19.4	2.00	"	20.0		97.1	70-130			
Anthracene	18.4	2.00	"	20.0		91.8	70-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager



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5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-054019

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 B5D1042 - EPA 3510C\_MS****LCS (B5D1042-BS1)**

Prepared: 04/10/2025 Analyzed: 04/10/2025

Benzo (a) anthracene	21.0	1.00	ug/L	20.0		105	70-130			
Benzo (a) pyrene	18.6	2.00	"	20.0		93.1	70-130			
Benzo (b) fluoranthene	18.4	2.00	"	20.0		92.0	70-130			
Benzo (g,h,i) perylene	18.4	2.00	"	20.0		92.2	70-130			
Benzo (k) fluoranthene	19.1	2.00	"	20.0		95.5	70-130			
Chrysene	19.7	2.00	"	20.0		98.6	70-130			
Dibenz (a,h) anthracene	20.1	2.00	"	20.0		100	70-130			
Fluoranthene	20.6	2.00	"	20.0		103	70-130			
Fluorene	20.0	2.00	"	20.0		100	70-130			
Indeno (1,2,3-cd) pyrene	19.6	2.00	"	20.0		98.2	70-130			
Naphthalene	19.4	0.200	"	20.0		96.8	70-130			
Phenanthrene	19.8	20.0	"	20.0		99.1	70-130			J
Pyrene	20.5	20.0	"	20.0		103	70-130			
Surrogate: Fluorene-d10	210		"	200		106	60-130			
Surrogate: Anthracene-d10	190		"	200		94.0	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		95.0	60-130			
Surrogate: Pyrene-d10	200		"	200		97.5	60-130			

**LCS Dup (B5D1042-BSD1)**

Prepared: 04/10/2025 Analyzed: 04/10/2025

1-Methylnaphthalene	18.1	0.200	ug/L	20.0		90.5	70-130	0.673	20	
2-Methylnaphthalene	17.9	0.200	"	20.0		89.6	70-130	0.660	20	
Acenaphthene	19.2	2.00	"	20.0		96.2	70-130	0.966	20	
Anthracene	19.9	2.00	"	20.0		99.3	70-130	7.80	20	
Benzo (a) anthracene	20.8	1.00	"	20.0		104	70-130	0.923	20	
Benzo (a) pyrene	19.5	2.00	"	20.0		97.7	70-130	4.80	20	
Benzo (b) fluoranthene	19.6	2.00	"	20.0		98.1	70-130	6.47	20	
Benzo (g,h,i) perylene	18.7	2.00	"	20.0		93.3	70-130	1.17	20	

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-054019

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 B5D1042 - EPA 3510C\_MS

LCS Dup (B5D1042-BSD1)

Prepared: 04/10/2025 Analyzed: 04/10/2025

Benzo (k) fluoranthene	18.7	2.00	ug/L	20.0		93.3	70-130	2.38	20	
Chrysene	19.9	2.00	"	20.0		99.7	70-130	1.04	20	
Dibenz (a,h) anthracene	20.2	2.00	"	20.0		101	70-130	0.946	20	
Fluoranthene	20.9	2.00	"	20.0		104	70-130	1.44	20	
Fluorene	19.8	2.00	"	20.0		99.0	70-130	1.03	20	
Indeno (1,2,3-cd) pyrene	20.0	2.00	"	20.0		100	70-130	2.00	20	
Naphthalene	19.3	0.200	"	20.0		96.3	70-130	0.482	20	
Phenanthrene	19.2	20.0	"	20.0		96.2	70-130	2.92	20	J
Pyrene	20.2	20.0	"	20.0		101	70-130	1.39	20	
Surrogate: Fluorene-d10	210		"	200		105	60-130			
Surrogate: Anthracene-d10	190		"	200		97.0	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.1	60-130			
Surrogate: Pyrene-d10	200		"	200		97.6	60-130			

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Jen Pellegrini For Jordan A. Bynon, Project Manager



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5120 North Shore Drive

North Little Rock AR 72118

Kyle Lawrence

Project Number: PROJ-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 B5D0952 - EPA 5030B (Water)****Blank (B5D0952-BLK1)**

Prepared: 04/09/2025 Analyzed: 04/09/2025

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	53		"	62.5		85.5	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	49		"	62.5		78.9	70-130			

**LCS (B5D0952-BS1)**

Prepared: 04/09/2025 Analyzed: 04/09/2025

1,2,4-Trimethylbenzene	44.4	2.00	ug/L	50.0		88.7	70-130			
1,3,5-Trimethylbenzene	43.8	2.00	"	50.0		87.7	70-130			
Benzene	42.1	1.00	"	50.0		84.2	70-130			
Ethylbenzene	41.4	1.00	"	50.0		82.9	70-130			
m,p-Xylene	89.6	2.00	"	100		89.6	70-130			
Naphthalene	52.6	2.00	"	50.0		105	70-130			
o-Xylene	41.2	1.00	"	50.0		82.4	70-130			
Toluene	45.4	1.00	"	50.0		90.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	54		"	62.5		86.5	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	49		"	62.5		78.6	70-130			

**Matrix Spike (B5D0952-MS1)**

Source: E5D0244-01

Prepared: 04/09/2025 Analyzed: 04/09/2025

1,2,4-Trimethylbenzene	37.2	2.00	ug/L	50.0	ND	74.3	70-130			
1,3,5-Trimethylbenzene	36.6	2.00	"	50.0	ND	73.1	70-130			

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

**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 B5D0952 - EPA 5030B (Water)****Matrix Spike (B5D0952-MS1)****Source: E5D0244-01**

Prepared: 04/09/2025 Analyzed: 04/09/2025

Benzene	37.6	1.00	ug/L	50.0	ND	75.2	70-130			
Ethylbenzene	35.6	1.00	"	50.0	ND	71.2	70-130			
m,p-Xylene	76.9	2.00	"	100	ND	76.9	70-130			
Naphthalene	40.9	2.00	"	50.0	ND	81.7	70-130			
o-Xylene	35.2	1.00	"	50.0	ND	70.4	70-130			
Toluene	40.3	1.00	"	50.0	ND	80.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	53		"	62.5		84.3	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	47		"	62.5		74.6	70-130			

**Matrix Spike Dup (B5D0952-MSD1)****Source: E5D0244-01**

Prepared: 04/09/2025 Analyzed: 04/09/2025

1,2,4-Trimethylbenzene	39.9	2.00	ug/L	50.0	ND	79.8	70-130	7.06	20	
1,3,5-Trimethylbenzene	39.5	2.00	"	50.0	ND	78.9	70-130	7.66	20	
Benzene	40.7	1.00	"	50.0	ND	81.4	70-130	7.95	20	
Ethylbenzene	38.1	1.00	"	50.0	ND	76.1	70-130	6.65	20	
m,p-Xylene	82.4	2.00	"	100	ND	82.4	70-130	6.93	20	
Naphthalene	48.5	2.00	"	50.0	ND	96.9	70-130	17.0	20	
o-Xylene	37.8	1.00	"	50.0	ND	75.6	70-130	7.18	20	
Toluene	43.5	1.00	"	50.0	ND	87.1	70-130	7.75	20	
Surrogate: 1,2-Dichloroethane-d4	53		"	62.5		85.2	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	47		"	62.5		74.9	70-130			

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

**Total Metals by EPA 200.8 - Quality Control**  
**Enthalpy Analytical**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch BID0624 - EPA200.2R2.8/SW3005A-ICPMS**

**Blank (BID0624-BLK1)**

Prepared: 04/11/2025 Analyzed: 04/14/2025

Arsenic	ND	1.00	ug/L	-	-	-	-	-	-	
Barium	ND	5.00	"	-	-	-	-	-	-	
Cadmium	ND	1.00	"	-	-	-	-	-	-	
Copper	ND	1.00	"	-	-	-	-	-	-	
Lead	ND	1.00	"	-	-	-	-	-	-	
Nickel	ND	1.00	"	-	-	-	-	-	-	
Selenium	ND	1.00	"	-	-	-	-	-	-	
Silver	ND	0.100	"	-	-	-	-	-	-	
Zinc	ND	5.00	"	-	-	-	-	-	-	

**LCS (BID0624-BS1)**

Prepared: 04/11/2025 Analyzed: 04/14/2025

Arsenic	49.4	1.00	ug/L	50.0	98.7	85-115	
Barium	49.8	5.00	"	50.0	99.7	85-115	
Cadmium	51.0	1.00	"	50.0	102	85-115	
Copper	49.7	1.00	"	50.0	99.3	85-115	
Lead	49.7	1.00	"	50.0	99.4	85-115	
Nickel	48.9	1.00	"	50.0	97.9	85-115	
Selenium	50.8	1.00	"	50.0	102	85-115	
Silver	10.5	0.100	"	10.0	105	85-115	
Zinc	50.1	5.00	"	50.0	100	85-115	

**Matrix Spike (BID0624-MS1)**

Source: 25D1040-10

Prepared: 04/11/2025 Analyzed: 04/14/2025

Arsenic	53.2	1.00	ug/L	50.0	2.90	101	70-130
Barium	81.7	5.00	"	50.0	28.0	107	70-130
Cadmium	50.3	1.00	"	50.0	ND	101	70-130
Copper	51.4	1.00	"	50.0	2.02	98.7	70-130
Lead	50.9	1.00	"	50.0	1.03	99.8	70-130

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

**Total Metals by EPA 200.8 - Quality Control**  
**Enthalpy Analytical**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch BID0624 - EPA200.2R2.8/SW3005A-ICPMS**

**Matrix Spike (BID0624-MS1)**

**Source: 25D1040-10**

Prepared: 04/11/2025 Analyzed: 04/14/2025

Nickel	54.7	1.00	ug/L	50.0	5.80	97.7	70-130			
Selenium	56.8	1.00	"	50.0	6.88	99.8	70-130			
Silver	10.3	0.100	"	10.0	ND	103	70-130			
Zinc	51.4	5.00	"	50.0	2.75	97.2	70-130			

**Matrix Spike Dup (BID0624-MSD1)**

**Source: 25D1040-10**

Prepared: 04/11/2025 Analyzed: 04/14/2025

Arsenic	53.4	1.00	ug/L	50.0	2.90	101	70-130	0.249	20	
Barium	76.8	5.00	"	50.0	28.0	97.5	70-130	6.24	20	
Cadmium	50.2	1.00	"	50.0	ND	100	70-130	0.265	20	
Copper	50.4	1.00	"	50.0	2.02	96.7	70-130	1.95	20	
Lead	50.9	1.00	"	50.0	1.03	99.8	70-130	0.0408	20	
Nickel	53.9	1.00	"	50.0	5.80	96.2	70-130	1.35	20	
Selenium	56.7	1.00	"	50.0	6.88	99.6	70-130	0.165	20	
Silver	10.3	0.100	"	10.0	ND	103	70-130	0.175	20	
Zinc	49.7	5.00	"	50.0	2.75	93.9	70-130	3.28	20	

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

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### Notes and Definitions

U Sample is Non-Detect.

Ja The reported result is an estimated value.

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

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Jen Pellegrini For Jordan A. Bynon, Project Manager