

## Microbac Laboratories, Inc. - Baltimore

#### CERTIFICATE OF ANALYSIS

#### 22E0421

**Maryland Department of the Environment** 

Project Name: Back River Bacteria

Ron Wicks 1800 Washington BLVD STE 510 Project / PO Number: N/A Received: 05/09/2022 Reported: 05/11/2022

Baltimore, MD 21230

**Analytical Testing Parameters** 

Client Sample ID:

Sample Matrix:

BRB1 Aqueous Collected By: Dennis Rasmussen

22E0421-01 05/09/2022 8:55 Lab Sample ID: **Collection Date:** 

Microbiology Result Limit(s) RL Units Note **Analyst** Prepared Analyzed Method: Enterolert Enterococcus 2400 1.0 MPN/100mL 05/09/22 1548 05/10/22 1720 RLH Method: SM 9223 B (Colilert Quanti-Tray)-1997 Escherichia coli 1600 1.0 MPN/100mL 05/09/22 1545 05/10/22 1250 RLH

Client Sample ID: BRB2

Collected By: Sample Matrix: Aqueous Dennis Rasmussen Lab Sample ID: 22E0421-02 **Collection Date:** 05/09/2022 9:10

Microbiology	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: Enterolert								
Enterococcus	1300		1.0 N	/IPN/100mL		05/09/22 1548	05/10/22 1720	RLH
Mathed ON COST P (Oalthed Oased Tree) 4007								
Method: SM 9223 B (Colilert Quanti-Tray)-1997								
Escherichia coli	1700		1.0 N	/IPN/100mL		05/09/22 1545	05/10/22 1250	RLH

BRB3 Client Sample ID: Sample Matrix:

Lab Sample ID:

Aqueous Collected By: Dennis Rasmussen 22E0421-03 05/09/2022 9:20 **Collection Date:** 

Microbiology	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: Enterolert								
Enterococcus	1300		1.0 N	/IPN/100mL		05/09/22 1548	05/10/22 1720	RLH
Method: SM 9223 B (Colilert Quanti-Tray)-1997								
Escherichia coli	1000		1.0 N	/IPN/100mL		05/09/22 1545	05/10/22 1250	RLH



### Microbac Laboratories, Inc. - Baltimore

# **CERTIFICATE OF ANALYSIS**

22E0421

Client Sample ID: BRB4
Sample Matrix: Aqueous
Lab Sample ID: 22E0421-04

Collected By: Dennis Rasmussen
Collection Date: 05/09/2022 9:30

Microbiology	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: Enterolert Enterococcus	1700		1.0 N	/IPN/100mL		05/09/22 1548	05/10/22 1720	RLH
Method: SM 9223 B (Colilert Quanti-Tray)-1997 Escherichia coli	1400		1.0 N	/IPN/100mL		05/09/22 1545	05/10/22 1250	RLH

Results in **bold** have exceeded a limit defined for this project. Limits are provided for reference but as regulatory limits change frequently, Microbac Laboratories, Inc. advises the recipient of this report to confirm such limits and units of concentration with the appropriate Federal, state or local authorities before acting on the data.

#### **Definitions**

MPN/100mL Most Probable Number per 100 Milliliters

RL: Reporting Limit

**Report Comments** 

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <a href="https://www.microbac.com/standard-terms-conditions">https://www.microbac.com/standard-terms-conditions</a>.

Reviewed and Approved By:

Brittany Spraker Project Manager

Reported: 05/11/2022 12:06

Microbac Laboratories, Inc.

# Cooler Receipt Form / Sample Acceptance & Noncompliance Form

Microbac Laboratories, Inc., Baltimore Division Control # 606-03 Effective Date: 11/30/2016 Page 1 of 1

Number of Coolers Received:	Receipt Date / Time: 5/9/07/1009
Client: MD Dept - FAVIV.	Work Order #_ ユュ E切 4 ユ\
Form Completed By:	
Shipper:	☐ Microbac 🖟 Client 🗆 UPS 🗆 FedEx
Custody Tape Intact:	YES / NO / NA
Containers Intact:	VES NO
Sample Received on Ice or refrigerated:	ES/NO/NA
2	Infrared (IR) Temperature: 9.0 °C
Chain of Custody Present with shipment:	YES / NO
Sample Bottle IDs agree with COC:	<del></del>
Preservation requirements met:	YES/NO
Correct Number of Containers / Sample Volume:	YES/NO/Not Checked
Headspace in container:	YES NO (If No. contact client immediately)
<b>™</b>	YES / NO / SIA
Type of Sample:	Water Soil Wipes Oil Filter Solid
ZA POZNE ZA	Sludge Food Swab Other
Container Type / Quantity:  A - Unpreserved H2SO4 HNO3 HCI NaOH	
	NaOH/Ascorbic Acid: If preserved pH <2, pH >10
	NaOH/Ascorbic AcidIf preserved pH <2, pH >10
D- Unpreserved H2SO4 HNO3 HCI NaOH NaOH	NaOH/Ascorbic Acid If preserved pH <2, pH >10
E - Unpreserved H2SO4 HNO3 HCI NaOH	NaOH/Ascorbic Acid If preserved pH <2 , pH >10 NaOH/Ascorbic Acid If preserved pH <2 , pH >10
H - Unpreserved H2SO4 HNO3 HCI NaOH	NaOH/Ascorbic Acid
KUnpreserved H2SO4 HNO3 HC1 NaOH	NaOH/Ascorbic Acid If preserved pH <2, pH >10
L - Unpreserved H2SO4 HNO3 HCl NaOH	NaOH/Ascorbic Acid If preserved pH <2, pH >10
M- Unpreserved H2SO4 HNO3 HCI NaOH P - Unpreserved H2SO4 HNO3 HCI NaOH	NaOH/Ascorbic Acid If preserved pH <2 , pH >10
	NaOH/Ascorbic Acid If preserved pH <2, pH >10
	NaOH/Ascorbic Acid If preserved pH <2, pH >10
F - Unpreserved NaTHIO (Checked at time of Analysis)	/ NaTHIO (Checked at time of Analysis)
S - Unpreserved \( \int \) NaTHIO (Checked at time of Analysis)	
SNUnpreservedNaTHIONaTHIO/EDTA (Checked a	t time of Analysis)
[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	NaOH/Ascorbic Acid If preserved pH <2, pH >10
	NaOH/Ascorbic Acid If preserved pH <2, pH >10
1001	NaOH/Ascorbic Acid If preserved pH <2, pH >10
Describe preservation requirements not met:	
All Acid preserved <2 pH NaOH preserved >12 pH	All others >2 and <10 (usually 4-8)
Sample ID: H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> NaOH	mls added
Sample ID: H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> NaOH	mls added
	mls added
Sample ID: $H_2SO_4$ HNO <sub>3</sub> NaOH $H_2SO_4$ – Sulfuric Acid, HNO <sub>3</sub> – Nitric Acid, NaOH – Sodium Hydrox	mls added
This is New, 11103 This is New, 110011 - Boatum Hyarox	tae, ASC – Ascorbic Acia, NaTHIO – Sodium Thiosulfate
Describe Anomalies:	
Contact information / Summary of Actions:	
Date / Ti	
Comments: Contact:	Contact By: