



# Microbiology of Wastewater

**Date:** Tuesday, October 8, 2019

**Location:** WWTF, 180 Ayers Island Road, Bristol, NH 03222

**Time:** 8:00am – 3:00pm (*Registration begins at 7:45am*)

**Credit:** 6.0 TCH's will be awarded to those who attend 100% of the course.  
NHDES, VTDEC, MADEP wastewater credit approved.

**Cost:** **\$99 Members, \$130 Non-members. Lunch included.**

**Instructors:** Toni Glymph (Sr. Environmental Microbiologist & Consultant with Wastewater Microbiology Solutions)

**Agenda:** The participants will learn the role of bacteria, protozoa and metazoa in the treatment process along with the conditions that allow them to do their best work of removing nutrients from the wastewater. The participant will also learn how to anticipate potential treatment system upsets and to troubleshoot and correct existing treatment system problems.

A Wastewater Microbiology Monitoring Program for Operators - This Unit includes how to develop a wastewater microbiology laboratory program, tools, techniques and standard operating procedures.

Identification and Control of Filamentous Bacteria - The participants will learn a simplified method to identify filamentous bacteria, determine the conditions that favor their growth and methods to control and eliminate bulking and foaming caused by these microorganisms.

Microbiological Monitoring of Biological Nutrient Removal Processes - The participants will learn treatment system conditions that favor the growth of phosphorus accumulating microorganisms (PAOs) and how to identify and quantify them and how to monitor biological phosphorus removal processes.

**\*Course Workbook:** "Wastewater Microbiology Laboratory Manual for Operators" is recommended.

**Duplicate Offering:** This class will also be available through Vermont Rural Water Association on Wednesday, October 9, 2019 in White River Junction, Vermont. For further information, contact VRWA at 802-660-4988 or visit their website at [vtruralwater.org](http://vtruralwater.org).

**Registration:** There are three ways to register: register and pay on our website: [www.granitestatewater.org](http://www.granitestatewater.org). Fill out this form and mail it with your payment to GSRWA, PO Box 596, Walpole, NH 03608; or fill out this form, request to be billed and fax it to (603) 756-3675.

**Cancellation Policy:** If you need to cancel, please contact GSRWA in writing at least three business days prior to the day of the course, or be charged a \$30 late cancellation fee. If you do not attend the course and do not contact GSRWA, you will be charged a "No Show" fee equal to the original course registration fee. The No Show fee is non-refundable and non-transferable. Written request for refunds/credits will be considered for special circumstances provided that the request is received within two weeks of the training date.

**PAYMENT MUST BE RECEIVED IN FULL PRIOR TO CLASS. NO WALK-INS PLEASE.**

*Any Questions, please call (603) 756-3670.*

Note: Please refer to our website for the most current information.



# Training Class Registration Form

Class Name: Microbiology of Wastewater  
Class Date: October 8, 2019  
System/Business: \_\_\_\_\_  
Address: \_\_\_\_\_  
City, State, Zip: \_\_\_\_\_  
Business #: \_\_\_\_\_

**1) Name of Attendee:** \_\_\_\_\_

Attendee Cell Phone: (\_\_\_\_) \_\_\_\_\_  
(In case of last minute changes/cancellation due to weather)

Attendee E-mail: \_\_\_\_\_  
(For reminder's and in case of last minute changes/cancellation due to weather)

**2) Name of Attendee:** \_\_\_\_\_

Attendee Cell Phone: (\_\_\_\_) \_\_\_\_\_

Attendee E-mail: \_\_\_\_\_

**3) Name of Attendee:** \_\_\_\_\_

Attendee Cell Phone: (\_\_\_\_) \_\_\_\_\_

Attendee E-mail: \_\_\_\_\_

## Payment Information:

# attending \_\_\_\_\_ **X** member rate \$ 99 = total \$ \_\_\_\_\_

# attending \_\_\_\_\_ **X** nonmember rate \$ 130 = total \$ \_\_\_\_\_

Total Amount Enclosed = \$ \_\_\_\_\_

Send me a bill (check here) \_\_\_\_\_ PO # \_\_\_\_\_

To submit this form: mail to GSRWA, PO Box 596, Walpole, NH 03608  
fax to 603-756-3675  
email to [info@granitestatewater.org](mailto:info@granitestatewater.org)

For more information: visit our website at [GraniteStateWater.org](http://GraniteStateWater.org)  
phone 603-756-3670