

# Registration Form

**May 16, 2023**

#7499 - Wastewater System Math Refresher  
#8549 - Food/Microorganism Ratio (F/M) and Mean  
Cell Residence Time

**Location:**  
**Chambersburg Wastewater  
Treatment Plant**  
725 Hollywell Ave  
Chambersburg, PA 17201  
Franklin County

*One Registration per person please!*

**Please provide the best contact information in case of class cancellation or changes.**

Attendee Name: \_\_\_\_\_

PA DEP Client ID (if applicable): \_\_\_\_\_ Attendee E-Mail: \_\_\_\_\_

System/Company: \_\_\_\_\_

Attendee Cell Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Address:  Home  
 System/Company \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

## **PAYMENT:**

Check (payable to PRWA)

**PRWA Member?**  Yes  No

Invoice Me:  Home  System/Company

**Attendance cost per person:**  
\$115 for PRWA Members  
\$150 for Non-Members

**For security reasons, all credit card transactions  
must be processed through our website.**

**If you prefer to pay via credit card, please visit [www.prwa.com](http://www.prwa.com).**

Amount Due:  
\$ \_\_\_\_\_

## **THE PRWA PROMISE**

If you're not 100% satisfied with the  
training class for any reason, we will give  
you a refund!

**WWW.PRWA.COM/PROMISE**

**To register by FAX or MAIL:**

**FAX:** (814) 353-9341

**MAIL:** 138 W. Bishop St., Bellefonte PA 16823

**EMAIL:** TRAINING@PRWA.COM

EMAILING REGISTRATIONS: EMAIL IS INHERENTLY INSECURE. CREDIT CARD  
INFORMATION SHOULD NOT BE EMAILED OR SEND IN AN ATTACHMENT.

## **Questions?**

Call (800) 653-7792 ext. 107 or 108

## **#7499 Wastewater System Math Refresher &**

## **#8549 Food/Microorganism Ratio (F/M) and Mean Cell Residence Time**

### **5 WASTEWATER CONTACT HOURS**

**Wastewater System Math Refresher:** Wastewater operators are required to complete math calculation to assist in operations. This course will review some of the math required to operate a wastewater system.

**Food/Microorganism Ratio (F/M) and Mean Cell Residence Time:** An activated sludge treatment system is a living ecosystem and requires special care to ensure that the organisms are healthy and provided with the proper environment for them to flourish. There are many factors that can have an effect on the efficiency and overall operations of an activated sludge treatment plant and there are many operational adjustments that need to be made on a daily basis to keep the system running at its best. Two calculations that are often used to determine those adjustments are food/microorganism (F/M) ratio and mean cell residence time (MCRT).

### **Topics to be covered:**

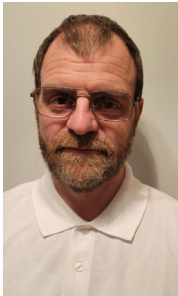
- Converting Flows Velocity of Flow Pumping Unit
- Process Efficiency BOD/Suspended Solids Removed
- Food I Microorganism Ratio
- Mean Cell Residence

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725 Hollywell Ave  
Chambersburg, PA 17201  
**Franklin County**

**Class Time:** 8:00 am - 2:30 pm  
**Registration:** 7:30 am

*Lunch and materials provided with your  
registration*



**Instructor:  
Pete Weaver**

*Water/Wastewater Technician*

Pete is a water and wastewater technician / training specialist with PRWA and has worked in the water and wastewater industry since 1991. Pete's experience comes from decades of hands-on operating experience, troubleshooting and maintenance in both industry fields. He currently holds a PA Class A wastewater certification as well as a PA Class B Water certification. Pete also ran an accredited wastewater lab as well as a land application of bio-solids program for sewage sludge disposal. He is also familiar with short- and long-term municipal financial planning as well as project financing, planning, execution, and municipal budgeting.

**pa rural water**  
*Association*

138 West Bishop Street  
Bellefonte, PA 16823  
800-653-7792

[WWW.PRWA.COM](http://WWW.PRWA.COM)

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