

Registration Form

March 8, 2023

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

Location:
Ford Cliff Volunteer Fire Hall
609 Neale Avenue
Ford Cliff, PA 16228
Armstrong 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

Amount Due:
\$ _____

**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.

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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PERMIT NO. 196

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

Lunch and materials provided with your registration



Instructor:
Tom Goehring

Wastewater Technician

Tom is a Wastewater Training Specialist. Tom started in the wastewater field in 1994 performing plant operations, laboratory DMR and process control testing, and collection system management until 2008. He then began work with the State of West Virginia assisting utilities with proper managerial and financial procedures until he returned to Pennsylvania and joined PRWA as a wastewater technician in 2013. He currently holds a Class A wastewater license in Pennsylvania and a Class IV wastewater license in West Virginia.

pa rural water
Association

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

WWW.PRWA.COM

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