

# #145 Wastewater Jar Testing: Coagulation & Sedimentation

## 6 WASTEWATER CONTACT HOURS

The activated sludge jar test is designed to measure the impact of polymer addition on both settleability and solids capture in a secondary clarifier. The clarification of wastewater for the settling of activated sludge biomass and the removal of suspended solids can be a complex process requiring the controlled addition of several chemicals to obtain optimum results. During this course participants will review the proper math calculations needed to be able to prepare stock solutions and perform jar tests. Also, the course includes several hands-on breakouts that will enable the participants to prepare stock solutions and perform jar tests using activated sludge. A brief lecture will be given to teach how flocculants and coagulants impact both the settling ability and the solids capture in a wastewater treatment facility. Finally, the course will show the complex process that is involved with the removal of suspended solids within a waste stream.

### Topics to be covered:

- Math review/ refresher
- Prepare stock solutions
- Review jar test procedure

# April 17, 2019

**Parkway Restaurant**  
106 Munster Road  
Portage, PA 15946  
*Cambria County*

**Class Time:** 8:00 am - 3:30 pm  
**Registration:** 7:30 am

*Lunch and materials provided  
with your registration*

**Instructor: Tom Goehring**  
*Wastewater Technician*

**Questions?**  
Call 800-653-7792 ext. 107 or 108  
Or email: Training@PRWA.com  
**WE HOPE TO SEE YOU THERE!**

### 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**

**Attendance cost per person:**  
\$95 for PRWA Members  
\$130 for Non-Members

**PRWA Member?**  Yes  No

Name: \_\_\_\_\_ PA-DEP Client ID (if applicable): \_\_\_\_\_

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

Address:  Home  System Fax: \_\_\_\_\_

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

### PAYMENT:

Check (payable to PRWA)

Invoice Me:  Home  System

Credit Card:  AmEx  Discover  Visa  MasterCard

Card Number: \_\_\_\_\_

Exp Date (mm/yy): \_\_\_\_\_ CVC (3 or 4 Digit # on card): \_\_\_\_\_

Name on Card (please print): \_\_\_\_\_

Signature: \_\_\_\_\_

**April 17, 2019**

**#145 - Wastewater Jar Testing:  
Coagulation & Sedimentation**

### Location:

**Parkway Restaurant**  
106 Munster Road  
Portage, PA 15946  
**Cambria County**

**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 SENT IN AN ATTACHMENT.

**Questions?**

Call 800-653-7792 ext. 107 or 108

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

Signature shown on card

## MEET THE INSTRUCTOR



**Tom Goehring**  
*Wastewater Technician*

Tom is a Wastewater Technician. 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.

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**April 17, 2019**  
**Parkway Restaurant**  
***Cambria County***

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*Association*

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

**WWW.PRWA.COM**

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**pa rural water**  
*Association*