

# #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

# August 21, 2019

**Best Western Plus**  
115 Premiere Drive  
State College, PA 16801  
*Centre 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: \_\_\_\_\_

**August 21, 2019**  
**#145 - Wastewater Jar Testing:**  
**Coagulation & Sedimentation**

**Location:**  
**Best Western Plus**  
115 Premiere Drive  
State College, PA 16801  
**Centre County**

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

**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

*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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**August 21, 2019**

**Best Western Plus  
Centre County**

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**pa rural water**  
*Association*

138 West Bishop Street  
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**pa rural water**  
*Association*