

# WATER AUDITING AND LEAKAGE MANAGEMENT TRAINING FOR CENTRAL PENNSYLVANIA WATER UTILITIES

**Date:** Tuesday, April 11 & Tuesday, April 18, 2023

**Time:** 8:30 AM – 3:15 PM (both days, registration begins at 8:00 AM)

**Location:** Toftrees Golf Resort, 1 Country Club Lane, State College, PA 16803

[Register Here](#) | [Add to Calendar](#)

*This training is being organized by RCAP Solutions, Cavanaugh & Associates, P.A. and Kunkel Water Efficiency Consulting thanks to generous funding from the Susquehanna River Basin Commission.*

**Course Description:** Nationwide, **an estimated six billion gallons of water per day is taken from water sources but never reaches the customer**; this is enough water to supply the drinking water needs of the ten largest cities in the United States. Water loss also results in revenue loss for many utilities. Through this **two-part instructional training**, we aim to advance the knowledge and skills of utilities in regard to water auditing and leakage management. The training is part of a project sponsored by the Susquehanna River Basin Commission to elevate the efficiency of water utilities in Centre County, PA and adjacent counties.

## **Day 1: Water Audits**

Tuesday, April 11, 2023 | 8:30 AM – 3:15 PM

(Approved by PA DEP for 5.5 TCHs for Water Operators)

### **Best Practice Water Audits for Pennsylvania Water Utilities (DEP ID# 9169)**

- Learn about the basic components of non-revenue water, including leakage.
- Receive training on the use of the AWWA Free Audit Software (Excel Spreadsheet application) to help you identify the nature and extent of water loss.
- Learn the value of the water audit for developing a cost-effective water loss control program.
- **For Day 1, although not mandatory, attendees are encouraged to bring a laptop personal computer with the AWWA Free Water Audit Software downloaded.** The Software can be downloaded from:  
<https://www.awwa.org/resources-tools/water-knowledge/water-loss-control.aspx>

## **Day 2: Leakage Management**

Tuesday, April 18, 2023 | 8:30 AM – 3:15 PM

(Approved by PA DEP for 5.5 TCHs for Water Operators)

### **Advanced Leakage Management for Pennsylvania Water Utilities (DEP ID# 9173)**

- Learn tools you can use to analyze system leakage.
- Learn the importance of system pressure in leakage reduction.
- Learn how to systematically reduce water loss through leakage reduction and pressure management.

## **Additional Information:**

### **About the Instructors:**

**George Kunkel, P.E.** is Principal of Kunkel Water Efficiency Consulting where he provides consulting and training on water loss management. Mr. Kunkel has over 40 years of water industry experience and was formerly the water loss control program manager for the City of Philadelphia Water Department. He currently chairs the sub-committee that publishes the AWWA M36 guidance manual *Water Audits and Loss Control Programs* and is a co-author of the AWWA Free Water Audit Software.

**Drew Blackwell** is the Non-Revenue Water Manager at Cavanaugh & Associates, P.A. and has over 16 years of industry experience. He has managed water loss training programs in 14 states/provinces and provided water audit validation services for more than 200 water audits. He is a Certified Water Audit Validator in the states of California and Indiana, and the Province of Quebec. He serves as the Secretary for the national Water Loss Control Committee of the American Water Works Association (AWWA).

### **Location (for both days):**

Toftrees Golf Resort  
1 Country Club Lane  
State College, PA 16803  
<https://www.toftrees.com/>

**Fee:** There is no charge for these training sessions!  
Continental breakfast and lunch will be provided.

**To Register:** <https://bit.ly/PA-Water-Auditing>

Please Note: These are standalone workshops, so you may attend one or both days. However, if you have not conducted a water audit at your utility, we highly recommend attending the Water Auditing session first.

**PLEASE REGISTER EARLY! SPOTS ARE FIRST-COME, FIRST-SERVED. (REGISTRATION PREFERENCE WILL BE GIVEN TO STAFF OF WATER UTILITIES IN CENTRE COUNTY AND ADJACENT COUNTIES)**

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**If you have any questions or would like further information, please contact Sukhwinder Singh, Pennsylvania State Manager, via email: [ssingh@rcapsolutions.org](mailto:ssingh@rcapsolutions.org) or phone: (412) 554-2572**

