

Free Water Loss Management Training for Water Utilities



Dates: October 11th, November 1st, and November 15th, 2023

Time (for all sessions) : 8:30 AM – 3:45 PM (registration begins at 8:00 AM)

**Location (for all sessions): Pennsylvania American Water Company, NE Division Operations Center
2699 Stafford Avenue, Scranton PA 18505**

[Register for Session 1 \(October 11\)](#) | [Register for Session 2 \(November 1\)](#) | [Register for Session 3 \(November 15\)](#)

This training is being organized by RCAP Solutions, the PA Department of Environmental Protection, the Pennsylvania Section of the American Water Works Association, and the United States Environmental Protection Agency.

Course Description:

Nationwide, an estimated **six billion gallons per day** of water is taken from water resources and never reaches the customer; this is enough water to supply the drinking water needs of the ten largest US cities. Many communities drinking water systems in PA deliver water to customers through aging distribution systems; withdrawing, treating, and supplying water for which they **may not be fully receiving revenue**. To help PA water utilities address this growing issue, the organizers are presenting a **three-part instructional training series** on water loss management for water operators, water managers, water authority personnel, engineers, and water system board members.

Session 1: Water Loss Auditing*

Wednesday, October 11, 2023, 8:30 am – 3:45pm 5.5 Water Contact Hours

Hands-on Training in Water Loss Auditing using the AWWA Free Water Audit Software (DEP ID# 7307)

- Learn about the basic components of non-revenue water, including leakage.
- Use the AWWA Free Water Audit Software (Excel Spreadsheet) to 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 Session 1, attendees should bring a laptop computer with the AWWA Free Water Audit Software downloaded** (If you do not have a laptop, you will be able to share). The Software can be downloaded from:

<https://www.awwa.org/Resources-Tools/Resource-Topics/Water-Loss-Control/Free-Water-Audit-Software>

Session 2: Metering and Billing

Wednesday, November 1, 2023, 8:30 am – 3:45pm 5.5 Water Contact Hours

Controlling Water Utility Apparent Losses in Customer Metering and Billing Operations (DEP ID# 7328)

- Learn the importance of metering and billing operations for your water loss control program.
- Learn ways to estimate apparent losses and recover lost revenue through accurate metering and billing.

Session 3: Leakage Management

Wednesday, November 15, 2023, 8:30 am – 3:45pm 5.5 Water Contact Hours

Fundamentals of Leakage and Pressure Management for Water Utilities (DEP ID# 7374)

- 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

Instructor: George Kunkel, P.E is an Outreach Assistance Provider with the PA Department of Environmental Protection. 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.

Fee: No charge for training sessions

Lunch on your own: bring bag lunch/drink or purchase at nearby restaurants

Free parking available

To Register: [Register for Session 1 \(October 11\)](#) | [Register for Session 2 \(November 1\)](#) | [Register for Session 3 \(November 15\)](#)

Please Note: These are standalone workshops, so you may attend one, two, or all three days. However, if you have not conducted a water audit at your utility, we highly recommend attending the Water Auditing on October 11th session first.

PLEASE REGISTER EARLY! SPOTS ARE FIRST-COME, FIRST-SERVED. (REGISTRATION PREFERENCE WILL BE GIVEN TO STAFF OF WATER UTILITIES)

NOTICE OF PHOTOGRAPHY: When you enter an RCAP Solutions event or program, you enter an area where photography may occur. By entering the event premises, you consent to photography its/their release, publication, exhibition, or reproduction to be used for news, web casts, promotional purposes, telecasts, advertising, inclusion on websites, social media, or any other purpose by RCAP Solutions and its affiliates and representatives. If you do not wish to be photographed, please let an RCAP Solutions staff member know.

If you have any questions or would like further information, please contact Wanda Rios, RCAP Solutions Technical Assistance Provider via email: wmartinez@rcapsolutions.org or phone: (814) 718-2118

