SOURCE WATER PROTECTION PROGRAM

Presented by Berks County Water & Sewer Association
July 31, 2013, 7:30 a.m. to 4 p.m., Albright College
MISSION STATEMENT

The organization's mission is to advance the theory and practice of the design, construction, maintenance, administration and operation of water and sewer services; disseminate information and share experiences to promote improved practices in water and sewer administration; expand local training opportunities, promote cooperation among water and sewer service providers and the economic development community; and encourage adherence by water and sewer officials to a continually higher standard.

BACKGROUND

The Berks County Water and Sewer Association (BCWSA) is a nonprofit organization, created in 2013. The Association was initiated by a group of concerned municipal officials through the Berks Municipal Partnership, County of Berks Commissioners and Planning Commission, Center for Excellence in Local Government, water and sewer service providers, Greater Reading Economic Partnership and the economic development community.

Meetings of the Association are generally scheduled quarterly, are sponsored by businesses or the Association itself, and consist of a registration period, general business meeting, a program presentation and refreshments.

The program presentations are designed to bring new products and procedures to the attention of the members, new Pennsylvania Department of Environmental Protection and other State, Multi-State and Federal regulatory agency regulations and programs, discussion of labor relations and employee contracts, discussion of operational techniques, opportunity for earning continuing education credits etc., and visitations to manufacturing and processing facilities, economic development opportunities, all of which are greatly beneficial and educational to our membership.
MORNING PROGRAM
Moderated by Brian Hassinger, Pennsylvania American Water and Charlie Jones, City of Reading

7:30-8:15 a.m.
Registration and Browse Vendor Displays

8:15-8:30 a.m.
Welcome (Wachovia Theater)
Brian Hassinger and Charlie Jones

8:30-9 a.m.
Lyn O’Hare, SSM, Opening Topic of Source Water Protection

9-9:15 a.m.
Erick Ammon and Susan Werner, DEP-Reading District Office
Source Water Relationship, Notification Responsibilities

9:15-9:20 a.m.
Introduction to Breakout Sessions

9:20-9:30 a.m.
Break and Browse Vendor Displays

9:30-10:30 a.m.
Herb Spencer, Water Treatment Process
Moderated by Matt Walborn (Breakout Room 1 – Klein Lecture Hall)
Tom Brown, Wastewater and Water Quality Relationship Activated Sludge and Nutrient Removal
Moderated by Ralph Johnson (Breakout Room 2 – Roop Hall)

10:30-10:45 a.m.
Break and Browse Vendor Displays

10:45-11 a.m.
Larry Lloyd, Berks County Conservancy, Best Management Practices (Wachovia Theater)

11-11:15 a.m.
Jane Meeks, Executive Director, Berks County Solid Waste Authority
Hazardous Waste, Pharmaceuticals and Water (Wachovia Theater)

11:15-12 p.m.
Kelly Anderson, Philadelphia Water Department
Early Warning System and Green City, Clean Water (Wachovia Theater)

12-12:30 p.m.
LUNCH AND RAFFLES
Moderated by Chip Bilger, Western Berks Water Authority
(Campus Center, South Lounge)
Lunch Presentations
Welcome – Andrea Chapdelaine, Ph.D., Provost and Vice President for Academic Affairs, Albright College
Berks County Water and Sewer Association
Berks County Commissioners
Water Resource Environmental Network
Thank you to sponsors
AFTERNOON PROGRAM
Moderated by Dean Miller, Reading Area Water Authority and Shannon Rossmann, Berks County Planning Commission

12:30-1:45 p.m.
Lyn O’Hare, Source Water Protection Management Strategies
(Campus Center, South Lounge)

1:45-2 p.m.
Break and Browse Vendors Displays

2-2:15 p.m.
Catherine Port, DEP South-central Regional Office
(PA Rural Water Association/SSM Group)
(Wachovia Theater)

2:15-2:45 p.m.
Charlotte Katzenmoyer, Director of Public Works
City of Lancaster’s Green Infrastructure Plan
(Wachovia Theater)

2:45-3:30 p.m.
Tom Davdock
Schuylkill Action Network (SAN), tie into Source Water Protection
Shannon Rossmann
MS4 Program tie into Source Water Protection (Wachovia Theater)
Jineen Boyle
DEP, Available Grants (Wachovia Theater)

3:30-4 p.m.
Closing remarks by Keith Brobst, Hamburg Municipal Authority (Wachovia Theater)
SPEAKER BIOS AND PRESENTATION SUMMARIES
LYN O’HARE

Lyn O’Hare is a water resources specialist at SSM Group, Inc. in Reading, Pa. O’Hare focuses on development of plans for community water systems in the DEP Source Water Protection Technical Assistance Program, offers support for water system steering committees, and provides assistance in implementing management strategies for community water systems. She currently leads the Agriculture Workgroup for the Schuylkill Action Network (SAN), and participates in SAN’s Planning Committee. O’Hare is involved with the capital chapter of the Society of Women Environmental Professionals as the newsletter/web site committee chair. Recently, she was appointed to the newly organized Berks County Water and Sewer Association as part of the training committee. Prior to working at SSM, O’Hare was the assistant manager at the Berks County Conservation District, where she was responsible for administering the County Coastal Zone Program delegated by the Pennsylvania Department of Environmental Protection. O’Hare has also provided environmental and safety services in the landfill and mail-sorting industries. She received a bachelor’s degree from the Pennsylvania State University.

Presentation Summary – SSM Group has been the state-wide contractor supplying technical assistance to community water systems through the DEP’s Source Water Protection Technical Assistance Program. This presentation provides an overview of the program, delineating protection zones, and potential threats to drinking water sources. In the second session, strategies to reduce possible contamination issues will be discussed.

ERICK AMMON/SUSAN WERNER

Erick Ammon is a water quality specialist for the Pennsylvania Department of Environmental Protection in Reading, where he monitors NPDES permit compliance, investigates pollution incidents and citizen complaints, and conducts point source sampling for the Clean Water Program in the Bureau of Point and Nonpoint Source Management. Ammon is a graduate of Clarion University where he received bachelor of science degrees in geology and environmental science; he has also completed a significant portion of work towards a master’s degree in geoenvironmental studies at Shippensburg University.

Susan Werner is a safe drinking water district supervisor for the Pennsylvania Department of Environmental Protection in Reading. Her duties include monitoring and enforcing compliance with the PA Safe Drinking Water Act and associated regulations at all public drinking water systems in Berks County. She supervises two safe drinking water specialists: Kathy Meridionale, who works with systems in the southeastern portion of Berks County, and Drew Hoffman, who works with systems in the northwestern portion of Berks County. Werner has been with the DEP since 1992. She began in the Waste Management Program and has been with the Safe Drinking Water Program since 1999.

Presentation Summary – Water Treatment Process

What drives our economic engine and community development?
1. A viable water source that can be treated to a high standard of regulatory compliance.
2. A sustainable source in quantity and quality to attract the appropriate industrial, commercial sectors and support industries.
3. Integrated residential development to support the economic development and associated quality of life that a potable water source and distribution system provides.

Meeting the challenges of treatment requires a very careful study of the source water. To assure treatability, it is essential to define the characteristics, potential contaminants and other influences present in the water shed.

Source water protection programs properly executed and managed will have a positive effect in all areas of treatment process design, plant operations, chemistries, regulatory compliance, distribution, inventory and “at the tap” consumer confidence.

We will provide an overview of the treatment processes employed with a variety of surface water supplies and groundwater sources with a few of the more defined challenges that our “crack” consulting and certified operator community address.

HERB SPENCER

Shannon Chemical Corporation manufactures a broad line of ANSI/NSF Standard 60 certified phosphate corrosion inhibitors and sequestrants. Established more than 40 years ago, this Delaware Valley company serves a diverse, national water provider base.

Herb Spencer, director of technical services, brings more than 40 years of field experience and technical expertise to the water treatment profession. He provides on-site technical support for chemical applications at surface water treatment systems and groundwater sources, including remedies for bio-fouled wells and stripping towers, to name just a few. He provides comprehensive training programs on distribution water quality evaluation and treatment, corrosion control techniques, EPA lead and copper rule compliance, taste and odor abatement and iron and manganese treatment. Spencer, an AWWA multi-section member, is also an active member of the National Rural Water Association, Water Environment Federation, and many other state and local water and wastewater associations. He is past president of the Water Works Operators’ Association of Pennsylvania, where he received the Eckardt, Glace and Krum Service Awards. He is also past president of the Eastern Pennsylvania Water Pollution Control Operators’ Association, where he was honored with the Fricker Individual Service Award, and he’s an inductee of the Ted Moses Sludge Shovelers Society. He is a past associates trustee and past chair of the Small Water Systems Committee and a recipient of the Special Recognition Award from the Pennsylvania Section AWWA. He serves as an alternate representative of PA AWWA to the Small Water Systems Technical Assistance Center Advisory Board.

Presentation Summary – PADEP Reporting Requirements

This presentation is being given at the request of the Berks County Water and Sewer Authority. It will provide BGWSA members and the general public a chance to understand the Pennsylvania Department of Environmental Protection’s pollution incident reporting requirements. Attendees should gain an understanding of the department’s regulatory authority, what constitutes a pollution incident and how/when to properly report a pollution incident.
**TOM BROWN**

Tom Brown is a Pennsylvania Department of Environmental Protection water program specialist in the Technical and Financial Assistance Division of the Bureau of Point and Nonpoint Source Management. Brown has worked for the department since 1988. Previously, he served as lead operator at the Somerset Wastewater Treatment Plant in Somerset, Pa.

*Presentation Summary* - The methodologies that are used to remove both Nitrogen and Phosphorus from wastewater will be discussed. These two nutrients are the most problematic from a Source Water Protection standpoint, especially for water suppliers with surface water intakes. Emphasis will be placed upon the biological uptake of nutrients.

**LAWRENCE E. LLOYD**

Lawrence E. Lloyd, senior ecologist with the Berks County Conservancy (BCC), joined the staff in June 2002. Previously, he was a BCC volunteer/participant as part of the Conservancy’s Environmental Committee for more than 10 years. He was also involved as a volunteer for DCNR State Parks, the Pennsylvania Nature Conservancy, and Hawk Mountain Sanctuary. He has more than 28 years of experience as a farm/nursery manager. Lloyd is responsible for managing all of the BCC-owned and protected land/preserves (>600 acres) and the conservation easements in Berks County (>6000 acres), which includes management of five endangered species sites. He facilitates the BCC’s stream restoration, land management and trail projects. More than 75 agricultural, wetland, and riparian BMP projects have been implemented since 2002 with an average of 1,000 native trees and shrubs planted annually.

*Presentation Summary* - This session will provide examples of the Schuylkill Action Network's (SAN) approaches to best management practices implementation projects within Berks County, as part of a source water protection strategy.

**JANE MEEKS**

Jane Meeks has been the executive director of the Berks County Solid Waste Authority since April 2006. Prior to joining the Solid Waste Authority, Meeks was the solid waste coordinator/environmentalist for the City of Reading for more than 15 years. As the executive director, Meeks is responsible for the implementation of the Berks County Solid Waste Management Plan, which was approved by the state in December 2005. The main focus is currently on the consolidation of recycling reports for all 73 of the municipalities located in Berks County, special waste collection events, expansion of the county recycling programs and the determination of new funding sources.

*Presentation Summary* - Hazardous Waste, Pharmaceuticals and Water The Berks County Solid Waste Authority has been holding spring and fall household hazardous waste collection events for more than 20 years and added a pharmaceutical collection event in 2009. The pharmaceutical collection program was expanded in 2013 by the Berks County District Attorney’s Office. It includes full-time drop-box programs for unwanted medications at 13 police stations in Berks County. The Solid Waste Authority will present statistics on the success of these programs and the impact they have on our environment.

**KELLY ANDERSON**

Kelly Anderson is the manager of the Philadelphia Water Department’s Source Water Protection Program. Anderson has worked for PWD since 2005 after graduating from Drexel University with a bachelor of science in environmental science. PWD has an extensive and nationally recognized Source Water Protection Program. Anderson’s team is currently responsible for overseeing and facilitating the strategic planning processes associated with Philadelphia’s drinking water supply planning programs throughout Philadelphia’s 13,500 square mile watershed area. She oversees source water monitoring coordination and directs the necessary analyses of water quality and quantity trends, demanding changes both in the city of Philadelphia and throughout the region. The Source Water Program is also responsible for managing the assessment risks to the water supply and developing response plans to emergencies related to source water quality and quantity.

*Presentation Summary* - The Delaware Valley Early Warning System (EWS), in operation since 2004, is an integrated monitoring, notification and communication system that provides water suppliers with advanced warning of water quality contamination events. The EWS is comprised of four principal components: the EWS partnership, the notification system, the monitoring network, and the web-based database and portal.

Green City, Clean Waters is Philadelphia’s 25-year plan to protect and enhance our watersheds by managing storm water with innovative green infrastructure. The Philadelphia Water Department (PWD) developed Green City, Clean Waters to provide a clear pathway to a sustainable future while strengthening the utility, broadening its mission, and complying with environmental laws and regulations. As the city agency charged with ensuring compliance with the Federal Clean Water Act, PWD developed this program to protect and enhance our waterways by using green infrastructure systems that assist or mimic natural processes.

**CATHERINE PORT**

Catherine Port serves as a geologic specialist in the Department of Environmental Protection’s (DEP) south-central regional office in the Safe Drinking Water Program. Port’s responsibilities include conducting and updating source water assessments for new sources as well as working to assist water suppliers with developing and implementing source water protection programs. She has served with DEP since 2005, joining the Safe Drinking Water Program in 2006. Within the program, Port has served as a sanitation and compliance assistance specialist, and is a Class B and E certified water operator. She received a bachelor of science degree in geology from Juniata College and a master of science degree in geology from Southern Illinois University.

*Presentation Summary* - In Pennsylvania, source water protection is a non-regulatory, voluntary, locally-driven program. DEP offers assistance to community water systems wishing to put strategies in place to protect their drinking water sources from contamination. Learn how DEP regional source water protection coordinators can be your resource to help you develop and implement a source water protection plan for your community.
These partners include academics, businesses, conservation organizations, local municipalities, water suppliers and state and federal government agencies. Previously, Davidock worked as the program director for Delaware Valley Earth Force, an environmental service-learning organization serving southeastern Pennsylvania. He also worked for five years as a natural resource specialist with the Schuylkill County Conservation District.

Presentation Summary – Over the past 10 years, the Schuylkill Action Network (SAN) has been leading an innovative Source Water Protection (SWP) effort to improve the health of the Schuylkill River Watershed. During this time, more than 500 projects and more than $400 million have been invested to protect these resources. This presentation, in addition to providing an overview of this effort, will focus on resources and support available through the SAN to promote and advance SWP initiatives in Berks County. The presentation will provide an overview of various education and outreach materials available to utilities, funding opportunities, and technical support provided through the SAN workgroups. The presentation will also provide an opportunity for the water and sewer community in Berks County to identify other needs that the SAN can help to provide.

SHANNON ROSSMAN

Shannon Rossman was employed as an environmental planner and recycling coordinator for Union County, Pa., prior to joining the Berks County Planning Commission in 1994. As an intergovernmental planner with the Planning Commission, she has the opportunity to work with a variety of people and organizations such as municipal officials, nonprofits, other governmental agencies, and business professionals to help promote the idea of cooperation and regionalization. With the backing of the Berks County commissioners and the Planning Commission, Rossman has helped to make Berks County one of the most successful counties in Pennsylvania with regard to its joint planning efforts, including 18 joint comprehensive plans and five joint zoning ordinances, along with numerous other regional programs such as the Berks County MS4 Steering Committee. She is currently secretary of the newly formed Berks County Water and Sewer Association. Rossman also enjoys teaching and creating municipal planning education programs, including courses about “The Official Map,” Advanced Planning Tools and many others. She is a graduate of Bloomsburg University’s Geography/Environmental Planning Program.

Presentation Summary – Municipal Separate Storm Sewer System (MS4) tie into Source Water Protection: What is MS4? How are the MS4 communities in Berks County addressing storm water? Why is clean storm water important and how does it relate to the water and sewer community? Why should we encourage a different approach to addressing storm water?

JINEEN BOYLE

Jineen Boyle has worked for DER/DEP for 28 years in various positions, including environmental educator in the Bureau of State Parks, water quality field inspector and compliance specialist, and most recently, as regional watershed manager for the south-central region. She received a bachelor of science in biology from Juniata College.

Presentation Summary – This will be a brief summary of the DEP Growing Greener grant program. It will cover who is eligible, what types of projects can be funded, and key points concerning this year’s 2013 grant round, which will close in mid-August.
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A special thanks to the Water Resources Environmental Network for providing funding through the Source Water Protection Grant Program and to Albright College.

Thank you to all the new members of the Berks County Water and Sewer Association for the time and effort into making this program successful.

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On behalf of the Berks County Water and Sewer Association, thank you for attending our Source Water Protection Program.

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**At-Large Executive Committee**  
Dean Miller, Reading Area Water Authority  
Brian Hassinger, Pennsylvania American Water  
Charlie Jones, City of Reading

For upcoming events and news please visit the association web site at [www.albright.edu/localgov/bcwsa/](http://www.albright.edu/localgov/bcwsa/)