



New York Rural Water Association

Source Water Protection Technical Assistance Program

Fact Sheet

Program Background

New York Rural Water Association's federally-funded Source Water Protection Technical Assistance Program provides technical assistance to rural and small communities with the development and implementation of local source water protection plans. Source water is water from streams, rivers, lakes or underground aquifers that is used to provide public drinking water, as well to supply private wells used for human consumption. New York Rural Water Association (NYRWA) has provided technical assistance on source water protection since 1995.

Source Water Protection Planning

A **Source Water Protection Plan** is a local initiative designed to prevent the deterioration of water resources used for drinking water. A source water protection plan involves the following steps:

- Forming a planning team;
- Defining the water supply resources to be protected;
- Identifying potential threats to the quality and quantity of drinking water resources;
- Recommending and implementing measures to reduce threats to drinking water resources; and
- Planning for the future, including water supply emergency events.

NYRWA's **Source Water Protection Specialist** seeks the guidance and input of local individuals during the planning process to ensure that the completed source water protection plan reflects the needs and desires of the local community. Individuals on the planning team commonly include local government officials, water suppliers, representatives from various county and regional agencies, and individuals from interested non-governmental organizations.

Technical Assistance Provided

Initially, NYRWA's Source Water Protection Specialist organizes and facilitates a **source water protection workshop** within the local community. Representatives from governmental and non-governmental agencies and organizations will be invited in order to inform them of the protection effort, to determine if they have information or data that can be utilized, and to discuss the preventative measures that each entity may be willing to implement.

NYRWA will map and delineate **the drinking water resources of the community**. Since groundwater is the primary source of drinking water for most small or rural communities in New York, NYRWA compiles data on public and private water wells and maps unconsolidated and

bedrock aquifers on a detailed 1:24,000 scale that is useful for local planning. The likely areas supplying water to public water supply wells will also be mapped. If surface water is utilized for drinking water, the watersheds for such sources will also be mapped. NYRWA's Source Water Protection Specialist utilizes Geographic Information System (GIS) and Global Positioning System (GPS) mapping technology.

Once the water resources have been inventoried and mapped, NYRWA assists with an **inventory of potential sources of contamination**. This includes a review of information from source water assessments, an analysis of land use from real property data, and a compilation of facilities that are regulated by state and federal agencies.

Next, NYRWA and the local planning team helps **design and implement realistic management strategies** to protect local water resources. These management strategies could include non-regulatory measures such as public education, acquisition of land or easements, inter-municipal cooperation, monitoring, and/or encouragement of best management practices. Management strategies could also include regulatory tools such as zoning, site plan review, subdivision regulations, other municipal local law(s), and/or New York's State Environmental Quality Review Act (SEQR).

Finally, it is critical for communities and water systems to **plan for the future**. NYRWA helps to identify future hazards that could threaten local water resources as well as plan for future water supply needs. This step commonly includes: identifying areas that are threatened by future development, delineating water resources that may be suitable for public water sources, and developing a contingency plan to ensure that there are alternative water supplies in the event of contamination, drought, or other disruption event.

About NYRWA's Source Water Protection Specialist

Steve Winkley has served with NYRWA since 1995. Steve is a licensed professional geologist with a M.S. in Hydrogeology from Syracuse University and a B.S. in Geology from Rensselaer Polytechnic Institute. He has over 20 years of professional experience in the field of water supply development and protection.

About New York Rural Water Association

New York Rural Water Association (NYRWA) is a not-for-profit organization organized in 1979 with the goal of helping public and private rural water and wastewater systems provide safe drinking water and protect the environment at an affordable cost to the user. NYRWA provides on-site technical assistance to water and wastewater systems.

Contact Information:

Steven Winkley, Source Water Protection Specialist
New York Rural Water Association
P.O. Box 487
Claverack, NY 12513

Phone: (518) 828-3155, extension 17
Fax: (518) 828-0582
Email: winkley@nyruralwater.org
Website: www.nyruralwater.org