

Source Water Collaborative Tools and Resources

CWA-SDWA Workshop
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Presentation Overview

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- Call to Action
- Learning Exchange
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 - Case Studies
 - Nutrient Story Map
- Online Infographic
- Agricultural Collaboration Toolkits
- Innovation Challenge

Source Water Collaborative Members

27 National Organizations

- American Planning Association
- American Rivers
- American Water Works Association
- **Association of Clean Water Administrators**
- Association of Metropolitan Water Agencies
- Association of State and Territorial Health Officials
- **Association of State Drinking Water Administrators**
- Clean Water Action
- Clean Water Fund
- Environmental Finance Center Network
- **Ground Water Protection Council**
- Groundwater Foundation
- National Association of Conservation Districts
- National Association of Counties
- National Environmental Services Center
- National Ground Water Association
- National Rural Water Association
- North American Lake Management Society
- River Network
- Rural Community Assistance Partnership
- Smart Growth America
- The Trust for Public Land
- USDA - Farm Service Agency
- USDA - Natural Resources Conservation Service
- **U.S. Environmental Protection Agency**
- U.S. Forest Service (Northeastern)
- U.S. Geological Survey
- Water Systems Council

SWC Reach = 1,000's of People

➤ 27 Member's Members Represent All Local Partners

- Federal, state, and local government
- Water utilities
- Farmers and Foresters
- Land Use Planners
- Environmental Advocates
- Educators
- Communities
- Technical Assistance Providers



A CALL TO ACTION - A COMMITMENT TO ASSESSING AND PROTECTING SOURCES OF DRINKING WATER

KEY ACTIONS FOR:

Drinking Water Utilities, Local, State, and Federal Governments,
and Other Source Water Partners

To accomplish this vision, we recommend
the following key actions:

1

Update/improve source water assessments and protection plans to prioritize risks and actions, by leveraging new data and tools.

2

Take priority actions to protect sources of drinking water, working with key partners.

3

Coordinate, plan, and communicate in advance with key "upstream" partners as well as within water utilities to help ensure that, in an event, rapid emergency notification is provided to facilitate activation of mitigation measures.



Our Vision

All drinking water sources are adequately protected. As a result, the nation gains profound public health advantages as well as economic benefits.

STATE DRINKING WATER AND OTHER PROGRAMS

- Encourage and engage in targeted updating of source water assessments in collaboration with drinking water systems, and other state, federal, and local officials.
- **Leverage the Clean Water Act and other programs and authorities to protect water supplies.**
- Communicate key information from source water assessments to stakeholders to guide priority actions and advance protection.
- Factor source water protection needs into land acquisition and management strategies.
- Partner with communities and other watershed and ground water stakeholders to implement priority actions.
- Facilitate community and state-level all-hazards planning.



A NEW INFORMATION SHARING PLATFORM FOR SOURCE WATER PROTECTION



Celebrating 10 Years



Goal: Share & Learn

- Success Stories
- Webinars and Events
- Resources and Tips
- Communications
- Social Media

Monthly Themes

- August - Creative Partnerships
- September - Collaboratives
- October - Funding Ideas
- November - Nutrient Reduction
- December - Messaging

www.sourcewatercollaborative.org/learningexchange



A NEW INFORMATION SHARING PLATFORM FOR SOURCE WATER PROTECTION

➤ **2017 Webinars (to be continued quarterly)**

- **Emergency Notification and Preparation**
- **Working with Ag and Land Conservation Series**
 - USDA RCPP Projects

➤ **2016 Webinars**

- August 25 - Creative Partnerships
- September 27 – Forming and Sustaining Collaboratives
- November 2 - Accelerating Investment in Watershed Protection
- November 10 - Funding Source Water Protection
- December 6 - Successful Outreach and Messaging Efforts with Agricultural Communities



A NEW INFORMATION SHARING PLATFORM FOR SOURCE WATER PROTECTION

2016 CWA-SDWA Case Studies

- **Kansas** Develops Drinking Water Protection Program to Support Assessments and Implementation Actions
- **Maine** CDC Drinking Water Program and Maine Department of Environmental Protection Collaboration Efforts
- **Minnesota** Aligns CWA-SDWA Program Activities for Water Quality and Drinking Water Benefits
- **Nebraska** DEQ Source Water Protection and CWA 319 Programs Coordinate to Develop and Implement Drinking Water Management Plans
- **New Hampshire** Helps Pennichuck Water Works Develop a Watershed Management Plan and Implement Restoration Projects
- **Virginia** Watershed Program Uses Drinking Water Intake Locations to Prioritize Impairments for TMDL Development
- **Rhode Island** CWA and SDWA Programs Join Efforts to Develop Source Water Protection Initiative for Newport's Water Supply Reservoirs



A NEW INFORMATION SHARING PLATFORM FOR SOURCE WATER PROTECTION

As part of its 10 year anniversary, the Source Water Collaborative has launched the Learning Exchange – a platform for discussing current challenges, sharing stories, and transferring knowledge on source water protection (SWP).

CREATIVE PARTNERSHIPS	FORMING & SUSTAINING COLLABORATIVES	FUNDING FOR SWP ⌵	NUTRIENT REDUCTION SUCCESSES	SWP MESSAGING
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FUNDING FOR SOURCE WATER PROTECTION



October Learning Exchange Theme: Funding Source Water Protection

Securing clean drinking water is increasingly difficult in the United States. Aging infrastructure, increasing demand, extreme weather fueled by climate change, and rapidly developing landscapes are taxing capacities, driving up cost of water treatment, and posing challenges to the long-term (...)

“Securing a sustainable source of funding was key to our success. Together, eight cities and water districts that provide drinking water to over 300,000 Oregonians could maximize impact and save money by capitalizing on economies of scale, and could do so in a manner that was

LEARNING

EXCHANGE

CREATIVE PARTNERSHIPS

FORMING & SUSTAINING COLLABORATIVES

FUNDING FOR SWP

NUTRIENT REDUCTION SUCCESSES

SWP MESSAGING

Featured Resources



[Watch The Funding For Source Water Protection Webinar](#)

Hear about new eligibilities for accessing the Drinking Water State Revolving Funds for source water protection, and tips for leveraging ...



[Watch The Accelerating Investment In Watershed Protection Webinar](#)

Featured panelists: U.S. Endowment for Forestry and Communities; World Resources Institute; and Beaver Water District



[Key Funding Resources Every Source Water Stakeholder Should Know](#)

Download a resource document with quick links and descriptions of various government and private grants.



[Featured Story: Nebraska Pioneers DW Management Plans To Access CWA Funds For Source Water Protection](#)



[Featured Story: Oregon Coalition Pools \\$ To Finance Source Water](#)

Learn how Clackamas River Water Providers combines membership dues and grants to fund projects and research.



[Featured Story: Leveraging Federal Funding To Restore New Hampshire Drinking Water](#)

Restoring Pennichuck Water Works' Source Watershed



Sample Tweets

Help promote this month's Learning Exchange by tweeting about our activities and resources.

Click the mail icon to email the Twitter link

Panel of #SourceWaterProtection experts provide insights & answer questions on watershed investment programs.

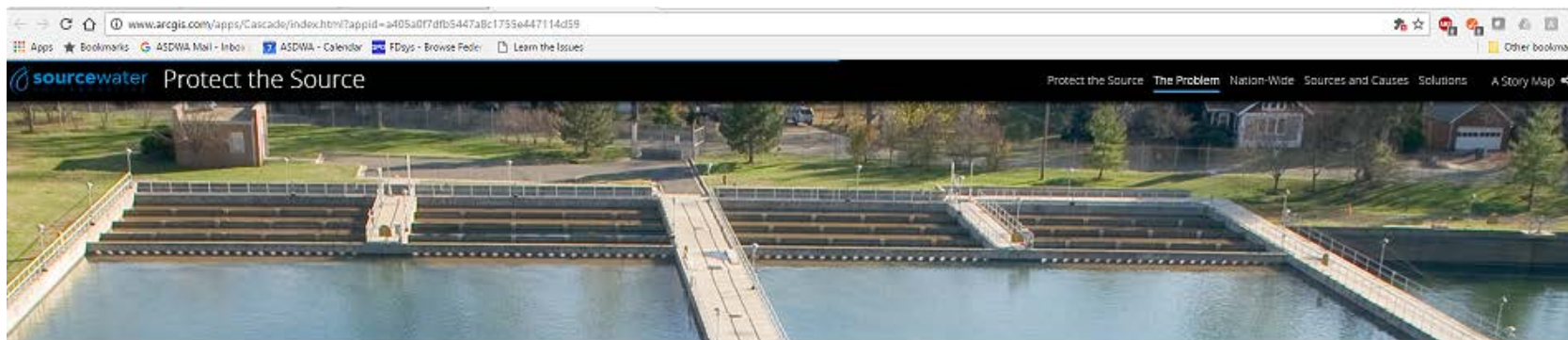


LEARNING

EXCHANGE

A NEW INFORMATION SHARING PLATFORM FOR SOURCE WATER PROTECTION

Nutrient Story Map



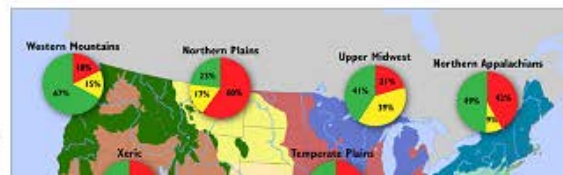
Every dollar spent on protecting sources of drinking water saves in water treatment costs.



A National Problem

Nutrient pollution affects a substantial portion of the Nation's waters.

The 2009 [National Rivers and Streams Assessment](#) found that 46 percent of river and stream miles had high levels of phosphorous and 41% had high levels of nitrogen.



COLLABORATION TOOLKIT:

PROTECTING DRINKING WATER SOURCES THROUGH AGRICULTURAL CONSERVATION

Are you interested in getting more agricultural conservation on the ground to help protect sources of drinking water? An important natural ally is the National Resources Conservation Service (NRCS, U.S. Department of Agriculture) State Conservationist's or District Conservationist's office. Another key set of allies is conservation districts – important partners at the local level, who also have helpful contacts at the state level. The National Association of Conservation Districts (NACD) recently joined the Source Water Collaborative, committing to link its members to information about the value of their work in protecting sources of drinking water.

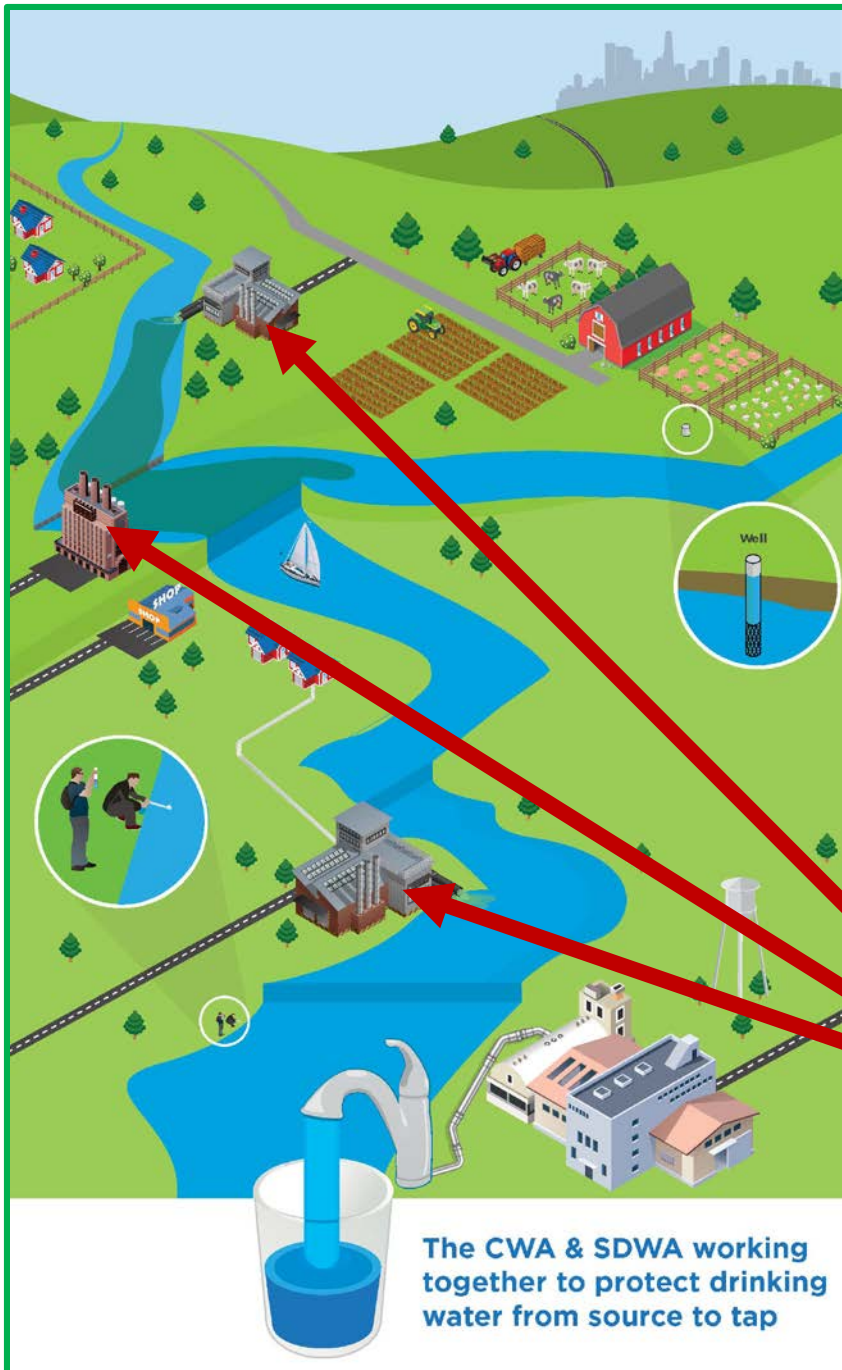
This toolkit, developed as a result of extensive collaboration between members of the Source Water Collaborative, NACD and the NRCS, offers a step-by-step approach. The resources inside are useful for anyone working in source water protection: from those who already know their State Conservationist or District Conservationist (NRCS) or Executive Director/Board Member or Conservation District Manager (NACD), but may be looking for new ideas, to those aiming to build a successful relationship. Each insightful tip is based on advice we received from NRCS and NACD, and from state and regional source water coordinators who recently fostered effective partnerships.

Note that many successful projects rely on participation from local conservation districts and the office of the NRCS State Conservationist. Both can bring key partners, especially producers and private landowners, to the table for project planning or implementation. And both often have access to technical and financial resources, as well as credibility with local and state leaders. Where you start can depend on your own network of connections or on a personal introduction you are able to get through one of your contacts. Either path of this toolkit can help you access a useful network of state and local participants. Depending on current priorities, you may find that some are more receptive to further discussions about source water protection needs, and will contribute to the success of your source water protection project.

CLICK BELOW TO GET STARTED:

HOW TO WORK WITH
CONSERVATION DISTRICTS

HOW TO WORK WITH
NRCS STATE CONSERVATIONISTS



POINT SOURCE POLLUTION

National Pollutant Discharge Elimination System (NPDES)

These industrial, commercial, and municipal facilities threaten downstream drinking water sources by discharging wastewater with various potentially harmful contaminants into the river. Wastewater is a type of point source pollution, or pollution that enters water from a discrete point.

The Clean Water Act regulates wastewater discharges and other types of point source pollution through the National Pollutant Discharge Elimination System, or NPDES. NPDES permits establish pollutant discharge limits for facilities to allow water bodies to meet state water quality standards (see [Water Quality Criteria](#)).

What can I do to protect sources of drinking water?

Participate in development and renewal of NPDES permits to:

Clean Water Act

- Water Quality Standards
- Water Quality Monitoring
- Public Water Supply - Designated Uses
- TMDLs
- Permits
 - NPDES
 - Stormwater
 - CAFOs
- Nonpoint Sources

OPPORTUNITIES TO PROTECT DRINKING WATER SOURCES AND ADVANCE WATERSHED GOALS THROUGH THE CLEAN WATER ACT



➔ A Toolkit for State, Interstate, Tribal and Federal Water Program Managers

November 2014

Helping states and tribes establish Water Quality Standards

This website is an online tool that will help state drinking water programs exchange critical

Search for CAS #, contaminant, criteria type, State

Search

General (18)

- Contaminant (2)
 - Contaminant Name
 - CAS Registry
- Aquatic Criteria Type (6)
 - Aquatic Life Freshwater Acute
 - Aquatic Life Freshwater Chronic
 - Aquatic Life Saltwater Acute
 - Aquatic Life Saltwater Chronic
 - Aquatic Life Narrative
 - Other
- Human Health Criteria Type (6)
 - Human Health Criteria Organism Only
 - Human Health Criteria Organism + Water
 - Maximum Contaminant Level (MCL)
 - Maximum Contaminant Level Goal(MCLs)
 - Health Advisory
 - Other
- State (4)
 - New York
 - California
 - Alaska
 - Colorado

Search for states...

Search Results

Contaminant	CASN	Criteria Type	Publication Year	State
Acephate	30560-19-1	Aquatic Life Freshwater Acute	1996	NY
Acetaldehyde	741-58-2	Aquatic Life Freshwater Chronic	1996	CA
Acetaldehyde	30560-10-1			
Acephate	7421-88-1			
Acephate	30561-19-1			
Acetaldehyde	7458-08-3			
Acephate	30560-19-1			
Acephate	30560-19-1			
Acephate	30560-19-1			

Uploads Information

Contaminant name: Ethylene glycol

CAS Registry: 107-21-1

Criteria Date: Fri, 11/02/2016

Criteria Type: Aquatic Life Freshwater Acute

Criteria Type - Other: Type criteria here

Criteria number: Units

Narrative Criteria:

State: New York

Agency: EPA New York

Note: Input note...

Contact information:

- User Name
- Agency
- Email Address
- Phone

Upload

Innovation Challenge

Coming – this Summer!

Data and technical information on pollutants

- With NO CWA 304(a) recommended criteria
- With NO SDWA drinking water standards or health advisories



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LEARN MORE »

A NEW INFORMATION SHARING PLATFORM FOR SOURCE WATER PROTECTION

THE SOURCE WATER COLLABORATIVE CAN HELP YOU.

 <p>Assess & Protect Drinking Water Sources</p>	 <p>Connect With Others</p>	 <p>Respond To An Emergency</p>	 <p>Learn About Source Water Collaborative</p>
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Latest News



OCTOBER LEARNING EXCHANGE THEME:
FUNDING SOURCE WATER PROTECTION

www.sourcewatercollaborative.org

Questions?

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