

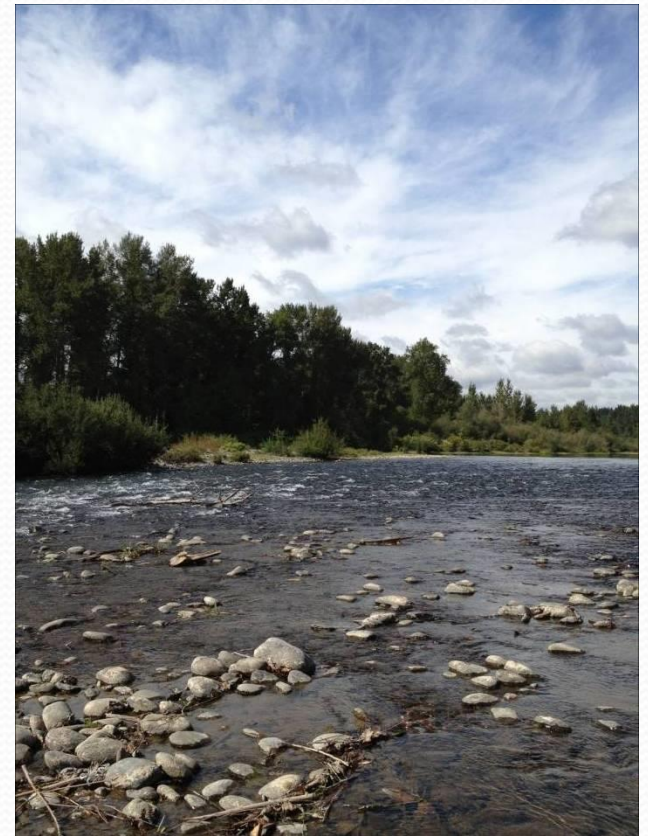
Source Water Protection (101)

The Basics

(What it is, and how to develop and implement
a SWP program)

What is Source Water Protection

- The objective of source water protection is to maintain, safeguard, and/or improve the quality of the source water used for drinking water.



Why Source Water Protection

- Multiple barrier approach
- Can reduce treatment costs.
- Can reduce risks to public health from exposures to contaminated water.
- Shows that water providers are good stewards of the resource

Safe Drinking Water Act

- 1996 Safe Drinking Water Amendments and Source Water Assessments



AWWA Standard G300



Fundamental Elements of SWP

1. Program *vision* and *stakeholder involvement*
2. Source water *characterization*
3. Source water protection *goals*
4. Source water protection *action plan*
5. *Implementation* of action plan
6. Periodic *evaluation and revision* of the entire program

Vision & Stakeholder Involvement

- Vision - express the commitment to SWP
- Stakeholder Involvement – critical to SWP development and implementation



Characterization of Source Water

- Delineation
- Water quality and quantity data
- Contaminant sources, land uses, and other threats
- Inventory of regulations



SWP Goals

- Program goals – you should have written goals



SWP Action Plan

- Identifies required actions
- Establishes priorities and timelines
- Identifies projects, activities and programs to achieve SWP



Program Implementation

- Should be a combination of voluntary and regulator programs, sound practices and drinking water advocacy

Evaluation & Revision

- Should be done periodically
- Adaptive management
- Identify gaps and shortcomings



Surface Water Protection vs. Groundwater Protection

- Different approaches and strategies

Surface Water Programs in Oregon

- Clackamas River Water Providers
<http://www.clackamasproviders.org/drinking-water-protection/>
- Eugene Water & Electric Board
<http://www.eweb.org/community-and-environment/mckenzie-watershed-protection/drinking-water-source-protection-plan>
- Joint Water Commission <http://jwcwater.org/water-sources/source-water-protection/>

Groundwater Protection Programs in Oregon

- City of Portland
<https://www.portlandoregon.gov/water/29890>
- City of Gresham <https://greshamoregon.gov/Well-Field-Protection-Program/>
- Springfield Utility Board
<http://www.subutil.com/water/drinking-water-protection/>

Other AWWA Resources

- Join the AWWA Source Water Protection Committee
- Source Water Protection tool kit (currently AWWA members only)
- Farm Bill and Source Water Protection

<https://www.awwa.org/Portals/0/AWWA/Government/USDASWPreport.pdf?ver=2018-06-27-110553-577>

- Communicating Source Water Protection Efforts in Consumer Confidence Reports

https://www.awwa.org/Portals/0/AWWA/ETS/Resources/CCR_GuidanceDocument.pdf?ver=2019-02-19-155838-517



Kimberly Swan

Water Resource Manager

Clackamas River Water Providers

14275 S. Clackamas River Rd.

Oregon City, OR 97045

(503) 723-3510

(503) 723-3508 (fax)

kims@clackamasproviders.org