HB 894: Existing Tools and Resources

NC's Source Water Assessment Program (SWAP)

Delineate source water assessment areas

- Inventory potential contaminant sources
- Determine susceptibility analysis (relative risk)
- Make information available to public

SWAP results updated June 2014



SWAP is used by other agencies to prioritize funding for projects



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Division of Water Infrastructure

Source Water Assessment Area syns. "priority" or "sensitive" areas

 An area in which <u>protection activities</u> will likely have the most beneficial impact on a drinking water source

 An area in which <u>contamination events</u> will likely have the most detrimental impact on a drinking water source Three components of an assessment area





Inventory of Potential Contaminant Sources Includes over 43,600 PCSs from 16 state agencies and programs

Animal Operations

CERCLIS Sites

National Priority List Sites

Non Discharge Permits

NPDES Permits

Old Landfill Sites

PCB Sites

Pollution Incidents







Lumberton assessment area with PCSs



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Susceptibility Analysis

An indicator of relative risk
Adds another way to prioritize activities
Reported as a categorical ratings:

Higher Susceptibility
Moderate Susceptibility

Lower Susceptibility





Susceptibility Ratings combine contaminants with vulnerability

Contaminant Rating	Inherent Vulnerability Rating		
	Higher	Moderate	Lower
Higher	Н	Н	М
Moderate	Н	М	М
Lower	М	М	L





Methods of Rating Unsaturated Zone and Watershed Characteristics of Public Water Supplies in North Carolina

By Jo Leslie Eimers, J. Curtis Weaver, Silvia Terziotti, and Robert W. Midgette

U.S. GEOLOGICAL SURVEY

Water-Resources Investigations Report 99-4283

Prepared in cooperation with the

Public Water Supply Section of the Division of Environmental Health, North Carolina Department of Environment and Natural Resources

USGS developed a GIS-based overlay-and-index method





Grid cell rating:Average grid cell calculation: $R_i = \sum_{i=1}^{5} (w_i \times r_i)$ $\sum_{i=1}^{n} R_i$ I = 1I = 1

Packaging and Delivery: Detailed SWAP reports are available online

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Note: Search results open in a new window. If you have trouble viewing the results, **pop-up blockers** may be preventing this window from opening.

Adobe

ADORE" READER

Adobe Acrobat Reader 5.0 or higher is required to properly view the SWAP reports. Click on the "Get Acrobat Reader" button to download the latest version of Adobe Acrobat Reader.

Source Water Assessment Program Report for MOUNT PLEASANT, TOWN OF (WSACC) Community Water System

Introduction: What is a Source Water Assessment?

The North Carolina Division of Water Resources, Public Water Supply (PWS) Section is responsible for implementing the Source Water Assessment Program (SWAP) and completing assessments for all public drinking water supplies in the state. The 1996 amendments to the Safe Drinking Water Act provided federal support and required states to conduct assessments of all public water systems. A source water assessment is a qualitative evaluation of the potential of a drinking water source to become contaminated by the identified potential contaminant sources (PCS) within the delineated area. In North Carolina there are more than 10,000 public water supply sources that were assessed by the state. The PWS Section has gathered information for each water supply and developed a process for completing the assessments. This process is summarized in the next few pages and detailed in Section 6 of this report.

This report provides a summary of the results for the **Source Water Assessment** for your drinking water source(s).

Recap: existing tools and resources ...updated and in place to support HB 894

What tools exist to support HB 894?
How is SWAP data relevant to SWP planning?
How is information provided to the public? Questions?