

Wisconsin Groundwater Guardians

Volunteers Taking Action



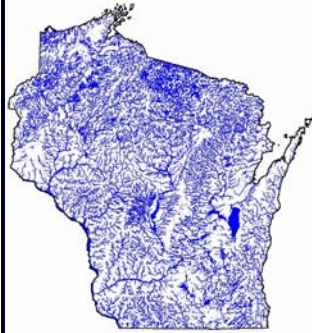
Denise Kilkenny-Tittle,
WIGG Coordinator

Overview

- Basic Groundwater Information
- National Groundwater Foundation
- Groundwater Guardian Program

To the Eye, Water is Abundant

Wisconsin hydrology



Importance of Groundwater



WI Drinking Water:
•70% households &
•90% municipalities



WI Industry: 40%



WI Ag Irrigation: 100%

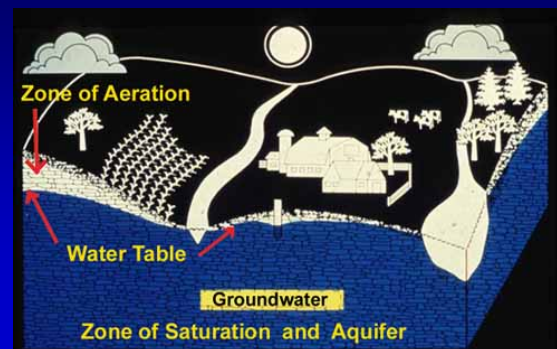


Environment

Importance of Groundwater Nationally

- 50% of America's drinking water
- 95% of rural American's drinking water
- 25% of industrial and mining water
- 34% of agriculture water
- 40% of the average annual stream flow

Groundwater Defined



Wisconsin Groundwater Issues-Quality

- Nitrate
- Pesticides
- Arsenic
- Others



Wisconsin Groundwater Issues-Quantity



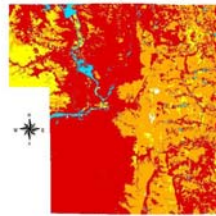
Is there enough groundwater to accommodate environmental and human needs?

(Community) in Perspective

- Tailor this slide to whomever you are presenting to—give overview of groundwater, soil, and geology for area

Possible Reasons for Groundwater Problems

Soil Attenuation of Contaminants
Portage County, Wisconsin



- **Humans**
 - Population
 - Land use
- **Natural Conditions**
 - Soil type
 - Geology

People Unaware of Connection: Everyday Activities & GW



Some People Unaware of Connection: Land Use & GW



Actions You Can Take

Personal Level

Actions You Can Take

Groundwater Guardian Program---

*---Saving the World's Groundwater
One Community at a Time*

Community or Regional Level

National Groundwater Foundation

- **Founded:** 1985 by Susan Seacrest
- **Status:** non-profit organization
- **Purpose:** educate and motivate people to care for and about groundwater

Groundwater Guardian (GG) Program

Volunteer teams taking action to help protect groundwater

- Began in 1994 with 8 communities
- Today over 150 communities and 35 affiliates in 34 states and 1 Canadian province

WISCONSIN GROUNDWATER GUARDIAN COMMUNITIES

Groundwater Guardian Communities:

- Counties
- Cities

WIGG Affiliates

- Center for Watershed Science & Education
- Golden Sands RC&D Council
- Kewaunee Co. LWCD
- River Alliance of Wisconsin
- Rock River Coalition
- WI Ground Water Assoc.

GG Community vs. Affiliate

- **Communities:** broadly defined as a city, county, watershed, school, etc.
- **Affiliates:** term given to a business, agency, or organization

Result Oriented Activity (ROA)

an activity to conserve & protect the groundwater resource through:

- awareness & education
- conservation
- public policy
- pollution prevention
- best management practices

Marshfield Area

Water Festivals,
GW Lessons, &/ Curriculum in Schools



Also Chippewa Falls, Marathon Co.,
Milladore Area, Portage Co., & Waukesha



Green Bay

Theatrical Drama



Marathon County

Resource Collection



& Teacher Workshops



Calumet County

- Community Water Testing Programs

Attention Calumet County Residents

HAVE YOU TESTED YOUR DRINKING WATER LATELY? NOW IS THE TIME!

2003 Water Testing and Education Program
SPONSORED BY THE CALUMET GROUNDWATER GUARDIAN TEAM ALONG WITH THE LAND AND WATER CONSERVATION OFFICE

Bottle Pick-up Information

LOCATION	DATE	TIME
Waukegan, Illinois NORTH Highway 144	Tuesday, June 17 th	8:00AM - 6:00PM
Milladore, Wisconsin Highway 94	Wednesday, June 18 th	8:00AM - 6:00PM
Calumet County Courthouse (Room 202) 204 Court Street Chillico	May 27 th - June 30 th	8:00AM - 6:00PM

COST
ALL COSTS WILL BE COVERED BY THE STATE. YOU PICK UP THE BOTTLE AT THE POINT OF A PARTY OR OTHER SOCIAL GATHERING. Additional testing available upon request.

THE DETAILS
****All samples are to be collected and returned on June 23rd****
Water tests are only needed for private wells (noted sections).
All tests are performed by state-certified labs.
Partners are eligible for free water testing, **call for details.**
For more details of the Land and Water Conservation Office, call 848-1444.



- Float in Parades
- Exhibit Booth at Fairs

Portage County

- Slide Presentation
- Education Program



- Website
www.uwsp.edu/water/portage



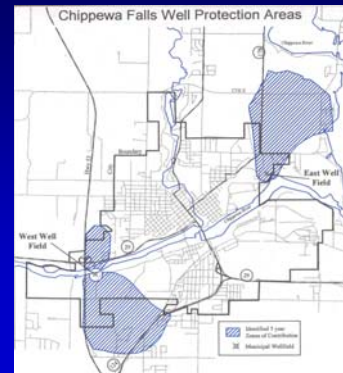
Dunn County

- Newspaper Articles
- Groundwater Level Data Base
- Map Recharge Areas and their proximity to developments that may potentially contaminate groundwater



Chippewa Falls & Eau Claire

- Wellhead Protection Plans & Ordinances
- Water Testing Programs



Milladore Area

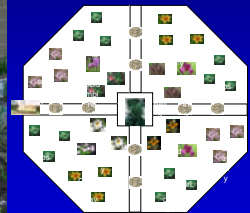


Well Abandonment



Rock River Coalition & Marshfield Area

Rain Garden Workshops &/ Construction



Steps to Form a GG Team

- Form a GG advisory team & action plan
- Prepare & submit annual entry forms
- Seek funding & implement action plan
- Prepare and submit annual report

Benefits of Being a GG Team

- Can take positive community action
- Share ideas and network with other GG teams
- Receive recognition for your efforts
- Receive assistance with planning
- Membership is FREE!

Resources Received from National Groundwater Office

- Groundwater Assistance Kit
- Aquifer Newsletter & Recharge E-Newsletter
- Groundwater Resource Catalog
- Groundwater Foundation Website
- Helping hands hotline
- Invitation to Annual Fall Conference

Resources Received from Wisconsin GG Program

- Assistance & E-newsletter from WIGG coordinator
- Welcome Binder with WI information
- Invitation to Annual WIGG State Meeting
- Invitation to Annual Groundwater Festival
- Wisconsin GG website
- Access to a lending resource library
- "Water Rich Water Poor" video

It is because of people that we need to protect groundwater.

And it is only through people that we can do this.

So take action...become a Groundwater Guardian Team!



For More Information



- Denise Kilkenny-Tittle, WI Coordinator, 715-346-2722 or gwguardian@uwsp.edu
- Wisconsin Groundwater Guardian Website www.uwsp.edu/cnr/gwguardian
- National Groundwater Foundation Website www.groundwater.org