



2011 Groundwater Guardian Profiles

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Groundwater Guardian Communities

ALABAMA

Eufaula
Madison County
New Brockton/Coffee County

CALIFORNIA

Atascadero
Desert Hot Springs
Desert Hot Springs High School
Desert Springs Middle School
Lompoc
Orange County Water District
Yucca Valley

FLORIDA

Escambia and Santa Rosa Counties
Hernando County

GEORGIA

Chatham County

IDAHO

Boise City

ILLINOIS

Loves Park
McDonough County
Pekin
Rock Falls, City of

INDIANA

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Elkhart
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Valparaiso

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McPherson County

MASSACHUSETTS

Barnstable County (Cape Cod)

MICHIGAN

Battle Creek, City of
Coldwater
Greater Lansing Area
Kalamazoo, City of
Marshall, City of
Michigan State University
Texas, Charter Township of

MINNESOTA

Detroit Lakes, City of
Holy Rosary Catholic School
Rossman School - Detroit Lakes

MISSOURI

Greene County
Independence
Sedalia

NEBRASKA

Beatrice
Cargill Team Blair
Grand Island and Surrounding Area
Lincoln
Offutt Air Force Base
Seward County
Sidney
Trenton, Village of
Wayne, City of

NEVADA

Las Vegas Valley

NEW HAMPSHIRE

Merrimack

NEW JERSEY

Pompton Lakes
Stafford Township

NEW YORK

Montgomery, Town of
Moodna Watershed Coalition
Orange County
Orange County Audubon Society
Pine Bush Water District
Suffolk County
Walkill, Town of

NORTH CAROLINA

Mecklenburg County
Orange County

OHIO

Brown County
Dayton Multi-Jurisdictional Source Water Program
Hamilton to New Baltimore
Wright-Patterson Air Force Base

Groundwater Guardian Communities

OREGON

Southern Willamette Valley Groundwater Mngmnt Area
Springfield

PENNSYLVANIA

Buhl Community Water
Carbon County
Meadville Area
Shrewsbury Borough
Telford Borough
Washington County

RHODE ISLAND

North Kingstown

SOUTH CAROLINA

Rural Aiken County

TENNESSEE

Memphis and Shelby County

TEXAS

North Plains Groundwater Conservation District

WASHINGTON

Renton
Sequim-Dungeness

WISCONSIN

Calumet
Chippewa Falls
Kewaunee County
Marshfield Area
Milladore Area

WYOMING

Casper Aquifer Protection Network

CANADA

ONTARIO

Cambridge, City of

Groundwater Guardian Affiliates

ALABAMA

Alabama Department of Agriculture and Industries
Alabama Dept. of Environmental Management

CALIFORNIA

Alameda County Water District
Mission Springs Water District
Santa Clara Valley Water District
Water Education Foundation

ILLINOIS

Central Regional Groundwater Protection Planning
Committee
Northeastern Regional Groundwater Protection Planning
Committee
Northern Regional Groundwater Protection Planning
Committee
Southern Regional Groundwater Protection Planning
Committee

INDIANA

Indiana Department of Environmental Management,
Drinking Water Branch, Groundwater Section

MICHIGAN

Michigan Groundwater Guardian Affiliate
U.S. Geological Survey (USGS) Michigan Water Science
Center

NEBRASKA

Central Nebraska Regional Water Conservation Task Force
South Platte Natural Resources District
U.S. Geological Survey (USGS) Nebraska Water Science
Center
University of Nebraska-Lincoln Water Center

NORTH CAROLINA

Mecklenburg County Groundwater & Wastewater

OHIO

Miami Conservancy District

OREGON

Lane County Water Quality Affiliate

PENNSYLVANIA

Pennsylvania Rural Water Association Source Water
Protection Program
Pennsylvania Water Resources Education Network

WISCONSIN

Kewaunee County Land & Water Conservation
Department

Eufaula AL

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001

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Community Profile:

The 15,000 people who live in Eufaula receive all of their drinking water from local groundwater supplies. The City's drinking water supply is currently threatened by ground contamination and security issues. Eufaula's Groundwater Guardian team wants to protect its groundwater through educational outreach to all age groups in the public.

Result Oriented Activities:

Held an annual groundwater festival for 4th grade students in Barbour and Bullock counties. Nearly 600 students, presenters, and parents participated in the festival which presented the edible aquifer, water cycle bracelet, and filtration activities.

Madison County AL

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997

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Community Profile:

Madison County's 292,000 residents are working to protect public health and promote safety by minimizing potential groundwater contamination in well recharge areas. Rapid residential and industrial growth, private wells, and disposal practices in wellhead protection areas place the county's groundwater at risk. Madison County uses the Groundwater Guardian program as a source of information and expertise in efforts to raise awareness about groundwater protection.

Result Oriented Activities:

Planned and organized the 2011 Madison County Drinking Water Festival, attended by over 2,000 4th grade students, volunteers, sponsors, and teachers. Students participate in hands-on activities to learn about where their drinking water comes from, how they can protect it, keep it clean, and how water is linked to other important natural resources.

New Brockton/Coffee County AL

Years Designated 2011, 2010, 2009

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Community Profile:

Coffee County is home to 45,000 people that utilize groundwater as a drinking water source. The Coffee County Groundwater Guardian team works to prevent groundwater contamination by increasing public awareness about the importance of groundwater as a drinking water source for county residents, encouraging the protection and preservation of groundwater supplies, and instilling groundwater protection practices in students' lives.

Result Oriented Activities:

Held the Coffee County Groundwater Festival for nearly 500 4th grade students, teachers, volunteers and parents. At the festival, students rotated through three stations where they learned about water pollution, filtration, and the water cycle.

Atascadero CA

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998

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Community Profile:

Atascadero's population of 27,500 over 38 square miles uses groundwater for all of its drinking water needs. Generally, the watershed and groundwater resources are in good condition but need to be monitored to ensure their continued good health, and water quantity and availability continue to be of concern. Atascadero uses the Groundwater Guardian program to raise community awareness about groundwater issues, implement educational programs to inform citizens about responsible water use, and mobilize citizens to participate in activities to protect groundwater resources.

Result Oriented Activities:

Held the Atascadero Creek and Salinas River Cleanup to remove litter and debris from the waterways. Local organizations also participate with exhibits about creek, riparian, and watershed issues. -- Continued the Water Conserving Landscape Awards program to reward residents and businesses that have installed quality, sustainable landscapes. The awards were highlighted in the local newspapers. -- Participated in various community events providing fun and educational water-oriented activities, including saving water while tooth-brushing activity, watershed bracelet activity and water trivia prize wheel at the booth. -- Published the annual edition of the Woodlands and Watersheds Community Calendar. The purpose of the calendar is to educate the public about the importance of oak and riparian forests, creeks and rivers, and encourage them to participate in community events. Over 36,000 people have been reached since the calendar program began.

Desert Hot Springs CA

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997, 1996, 1995

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Community Profile:

A unique environmental situation exists within the community of Greater Desert Hot Springs. The area's 25,000 residents rely on groundwater for all of their drinking water needs. Residents and visitors from around the world have the opportunity to enjoy both cold and hot water naturally occurring in groundwater aquifers. Separated by the Mission Creek Fault, the cold water aquifer supplies the Greater Desert Hot Springs Community with award-winning drinking water supplied by the Mission Springs Water District, while the hot water aquifer draws visitors to the city's renowned spas providing a tourism base. The Desert Hot Springs Groundwater Guardian team works to protect the community's pristine groundwater resources against contamination for its economic well-being and for future generations.

Result Oriented Activities:

Continued the "Newspapers in Education" program with DHS High School and Desert Springs Middle School to provide hands-on opportunities for students to learn about groundwater. A special newspaper supplement, "Groundwater and You," was reprinted and redistributed to spread the word about groundwater conservation, preservation, and protection. The program reaches over 1,500 high school and 1,100 middle school students. -- Collaborated with local school district and the Wildlands Conservancy to provide "Desert Watersheds: From Source to Sand" field trips for 4th and 5th grade students focusing on educating the students about the water cycle, desert wetland systems, and water conservation. Over 3,300 students have participated in the field trips. -- Continued work with high school students in developing a ceramic tile art piece, a water fountain. The project will include water-related and environmental artistic interpretations.

Desert Hot Springs High School CA

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000

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Community Profile:

A unique environmental situation exists within the community of Greater Desert Hot Springs. The area's 25,000 residents rely on groundwater for all of their drinking water needs. Residents and visitors from around the world have the opportunity to enjoy both cold and hot water naturally occurring in groundwater aquifers. Separated by the Mission Creek Fault, the cold water aquifer supplies the Greater Desert Hot Springs Community with award-winning drinking water supplied by the Mission Springs Water District, while the hot water aquifer draws visitors to the city's renowned spas providing a tourism base. Desert Hot Springs High School is also a designated Groundwater Guardian Green Site, and works to protect the community's pristine groundwater resources against contamination for its economic well-being and for future generations.

Result Oriented Activities:

Continued work on a ceramic tile art piece, a water fountain, which will include water-related and environmental artistic interpretations. -- Continued the "Newspapers in Education" program with Desert Hot Springs and Desert Springs Middle School to provide hands-on opportunities for students to learn about groundwater. A special newspaper supplement, "Groundwater and You," was reprinted and redistributed for a 7th year to spread the word about groundwater conservation, preservation and protection. -- Continued participation in the "Desert Watersheds: From Source to Sand" field trip program. Over 3,300 students have participated in this annual four-hour field trip program to the Mission Creek Preserve.

Desert Springs Middle School CA

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005

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Community Profile:

A very unique environmental situation exists within the community of Greater Desert Hot Springs. The area's 25,000 residents rely on groundwater for all of their drinking water needs. Residents and visitors from around the world have the opportunity to enjoy both cold and hot water naturally occurring in groundwater aquifers. Separated by the Mission Creek Fault, the cold water aquifer supplies the Greater Desert Hot Springs Community with award-winning drinking water supplied by the Mission Springs Water District, while the hot water aquifer draws visitors to the city's renowned spas providing a tourism base. Desert Springs Middle School works to protect the community's pristine groundwater resources against contamination for its economic well-being and for future generations.

Result Oriented Activities:

Continued the "Newspapers in Education" program with Desert Hot Springs and Desert Hot Springs High School to provide hands-on opportunities for students to learn about groundwater. A special newspaper supplement, "Groundwater and You," was reprinted and redistributed to spread the word about groundwater conservation, preservation and protection. -- Continued participation in the "Desert Watersheds: From Source to Sand" field trip program. Over 3,300 students have participated in this annual four-hour field trip program to the Mission Creek Preserve.

Lompoc CA

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997, 1996

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Community Profile:

Lompoc has 10 wells which provide 100 percent of the community's water supply to its 43,000 residents. Rain and river flow recharge the aquifer that supplies Lompoc with its water. During drought years, decreased water levels have become a concern. Recent problems in California led the City to encourage water conservation and thereby reduce the use of electricity at the Water Treatment Plant. Fifty years of upstream diversions and agricultural practices within the Lompoc Valley Basin have also led to a deterioration of local water quality. Lompoc uses Groundwater Guardian to increase the public's awareness of groundwater and the importance of protecting its quality and quantity, and to educate area youth about groundwater.

Result Oriented Activities:

Continued the Water Rebate Program, which provides rebates to customers who retrofit plumbing fixtures with water-conserving toilets, dishwashers, and clothes washers. The program has reached over 13,300 people and has helped achieve zero impact to the community's water supply with population growth. -- Distributed educational material at various community events and made presentations to local groups about water conservation and wellhead protection. -- Implemented a Water Waste Program for low income customers. One hundred Energy Star clothes washers were raffled, saving over 600,000 gallons of water, and offered free repairs of leaky toilets and faucets

Orange County Water District CA

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997

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Community Profile:

Groundwater provides 69 percent of the drinking water for the 2.3 million residents living in Orange County. However, Orange County residents are unaware that groundwater is a primary source of drinking water. In addition, groundwater education in the county is minimal, and more public outreach regarding water conservation and reuse is needed to reduce residents' dependence on imported water. Stormwater and nonpoint source pollution has recently become a threat to both ground and surface water sources. Orange County uses the Groundwater Guardian program to develop innovative methods to provide groundwater information to adults, disseminate information to the community about reliance on groundwater, and mobilize community members to participate in pollution prevention activities.

Result Oriented Activities:

Participated in various Orange County community events to distribute groundwater education and conservation materials including environmental fairs, Earth Day events, elected official open houses, and more. -- Hosted the Children's Water Education Festival. More than 5,200 fourth, fifth and sixth grade students attended the festival. Additionally about 600 volunteers, teachers and parents participated. Over 85,000 students have participated in the festival since its inception. -- Provided tours of the Groundwater Replenishment System for more than 12,000 visitors

Yucca Valley CA

Years Designated 2011, 2010, 2009, 2008

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Community Profile:

Yucca Valley is home to 24,000 people that utilize groundwater for their drinking water needs. Most households rely on septic systems to handle household wastewater, creating concern over possible impacts to water quality. Other groundwater-related concerns include abandoned wells and hazardous waste disposal. Yucca Valley will use Groundwater Guardian to provide program credibility and help expand public outreach and community involvement relating to conservation, protection, and water awareness through school programs, community events and other outreach efforts.

Result Oriented Activities:

Provided free household water audits to approximately 360 customers through the Household Water Awareness Program. The program is ongoing and is offered to all customers with high water bills or those interested in saving water that provides an opportunity for education.

Escambia and Santa Rosa Counties FL

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003

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Community Profile:

100 percent of the drinking water for this two-county area's 412,513 residents comes from the sand and gravel aquifer. The structure of the aquifer makes it susceptible to contamination. A 2004 report reflected contamination from local Superfund sites, causing local water suppliers to resort to "mixing" technology to dilute and filter contaminants to a safe level. Groundwater contamination in this area not only limits these areas for water development, but also affects the economic efficiency of operating the potable water system. Water use in this part of Florida is projected to increase by about 42 percent by 2025, putting additional strain on local resources. Public seminars and other awareness campaigns will help educate the public about the fragility of the local water supply.

Result Oriented Activities:

Continued the Living Shoreline Initiative to establish or improve best management practices associated with shoreline stabilization with residential and small commercial property owners. -- Continued the Grasses in Classes program. The curriculum-based program is now implemented in all participating schools with the goal of enabling students to play a direct role in shoreline stabilization and/or restoration projects. Sixteen production pads, including at schools, are growing and propagating emergent and dune plants for stabilization and restoration projects. To date, there has been approximately 20,578 linear feet, 61,734 square feet, or 3.90 miles of shoreline planted with emergent vegetation. -- Provided environmental education in public schools as part of the Resource Rangers Environmental Club and Bay Day 2011, providing hands-on activities for 1,100 fifth graders from area elementary schools.

Hernando County FL

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002

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Community Profile:

Hernando County's 165,164 residents receive 100 percent of their drinking water from local groundwater sources. The inter-relationship of karst formations, stormwater, and saltwater intrusion currently threaten the quality of the area's aquifer. The County is working to provide a sufficient, safe and adequate supply of groundwater now and for the future by developing and implementing conservation strategies countywide. Hernando County uses the Groundwater Guardian program to identify problems, concerns, threats, challenges, opportunities, and solutions and to research, identify, and implement programs and projects to restore and protect the area's groundwater.

Result Oriented Activities:

Maintained and updated the Hernando County Groundwater Guardian Website, which features meeting notices, workshop dates, groundwater protection action items, and activities. -- Continued to coordinate with the Florida Yards and Neighborhoods program to provide public information and educational opportunities dealing with Florida-friendly lawn and landscaping practices. Over 87 residents attended the annual Florida-Friendly Landscaping Workshop. Participants received a \$5 water bill credit for attending the workshop. -- Educated area residents on the karst sensitive nature of Hernando County's geology and hydrogeology through seminars, attended by over 560 people. The seminars are also televised on the local government channel to reach a broader section of the community. -- Coordinated with local governments and the Southwest Florida Water Management District to hold a workshop "Hernando County's Water World - It's All Connected." The workshop was attended by nearly 100 people, and broadcast on the government channel. The workshop focused on understanding of human impacts to the local groundwater source.

Chatham County GA

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997, 1996

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Community Profile:

Groundwater provides 75 percent of the drinking water supply to the area's 249,171 residents. Saltwater intrusion from excessive pumpage continues to be a major concern for area residents. In addition, since surface waters are common in the area, many residents believe they receive drinking water primarily from these sources rather than groundwater. Chatham County uses Groundwater Guardian to educate the community about their source of drinking water and to encourage conservation and limit potential pollution problems.

Result Oriented Activities:

Held a Medicine Cabinet Cleanout program to help expand upon previously held pharmaceutical collection events. Approximately 1,000 Medicine Cabinet Cleanout Kits have been distributed to Savannah residents at educational events. The kits allow residents to mail expired/unused pharmaceuticals in, free of charge, for proper disposal. -- Held a household hazardous waste collection day, collecting flammable solids, aerosols, flammable liquids, acids/bases, pool chemicals, lighting ballasts, pesticides, and other toxins. The team plans for this to be an annual event.

Atlantic IA

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997

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Community Profile:

Groundwater provides all of the drinking water to Atlantic's 7,432 residents. Atlantic Municipal Utilities is continuing to improve its wellhead protection program. Atlantic uses the Groundwater Guardian program to educate residents about the importance of protecting local groundwater supplies.

Result Oriented Activities:

Continued planting and improving native grasses, forbs and trees in the wellfield area. -- Continued community source water protection efforts by planting and maintaining filter strips throughout the area.

Boise City ID

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997, 1996, 1995, 1994

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Community Profile:

United Water Idaho supplies the 215,000 residents of Boise with all their drinking water. Approximately 80 percent of Boise's drinking water is supplied by groundwater. Declining water levels, groundwater contamination, drought, and increased demand are of concern. Boise uses Groundwater Guardian to energize support, knowledge and interest in protecting and conserving groundwater supplies.

Result Oriented Activities:

Continued education and outreach projects throughout Idaho during Water Awareness Week, including classroom presentations and materials distribution. Other activities take place during the school year to supplement the weeklong celebration of water. The Governor of Idaho issued a statewide proclamation for Water Awareness Week. -- Continued to sponsor a series of water-efficient landscaping courses in partnership with the University of Idaho Extension Service that was attended by 2799 people. -- Worked to improve the public education and information available on the City's website and in printed form regarding indoor and outdoor water conservation.

Loves Park IL

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001

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Community Profile:

The 24,228 people who live in Loves Park receive all of their drinking water from local groundwater supplies. Currently, one municipal well finished in the shallow sand and gravel aquifer is at risk for groundwater contamination from several sources within the well's ten year capture zone. An abandoned landfill, numerous small businesses generating auto and industrial wastes, and a residential area with abandoned wells on most properties contribute to the possibility of contaminants reaching the drinking water supply. Loves Park uses Groundwater Guardian to develop public awareness and understanding of what can impact the quality of the city's water supply, raise awareness about water protection, and encourage businesses and residents in the capture zone to voluntarily protect their drinking water source.

Result Oriented Activities:

Sponsored a Youth Groundwater Festival for more than 700 sixth grade students at Rock Valley College. -- Continued to inventory private wells within the municipal boundary of the City of Loves Park. Any wells located will be sealed and connected to municipal water as funding becomes available.

McDonough County IL

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997, 1996

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Community Profile:

McDonough County is home to 32,393 residents, as well as a major university, a number of small businesses, ten incorporated communities in various stages of development and excellent farmland. This great economic diversity, together with local landfill expansion, commercial animal confinement operations, and unsewered communities, combine to increase the type and number of concerns related to potential groundwater pollution. McDonough County uses the Groundwater Guardian program to expand public education programs in order to keep the population informed about the aquifer and its vulnerability to pollution, as well as to help the public understand where their water supply comes from.

Result Oriented Activities:

Provided free water testing kits for coliform and nitrates to area residents as a part of Drinking Water Week. Distributed a total of 68 water testing kits at the county health department and a local farm supply store. -- Held a prescription medication collection. Collected and properly disposed of 30 pounds of pharmaceuticals. -- Presented a booth, activities, and distributed information and materials at an annual Ag-Mech Show attended by 3,500, and the Western Illinois University Environmental Summit, attended by 500 people. -- Demonstrated and provided The Groundwater Foundation's Just Understanding Groundwater (JUG) kits to a local 6th grade class. -- Held a Conservation Day, presenting information about groundwater and surface water pollution prevention to 275 area 5th grade students.

Pekin IL

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997, 1996, 1995

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Community Profile:

The seven wells supplying drinking water to the 34,000 citizens of Pekin are relatively shallow, ranging from a well depth of 90 to 154 feet. The soils at the wells are sandy. Although well sampling revealed no contamination, the community is very concerned about protecting the "near limitless" water supply. The Illinois Environmental Protection Agency did a comprehensive "Pilot Groundwater Protection Needs Assessment" for the Pekin Public Water Supply to address the city's concerns and problems. Pekin uses the Groundwater Guardian program to enforce local government regulation as well as educate citizens about groundwater protection practices.

Result Oriented Activities:

Continued to enforce a Groundwater Protection Ordinance and distribute copies of the ordinance as a sample to other communities locally and across the nation. -- Continued to use GIS technology to map setback and recharge areas on the city's zoning map. -- Updated a digital mapping system of the area in and around Pekin. The map includes layers showing the location of underground storage tanks and abandoned wells. -- Continued to explore the creation of an ordinance restricting wells within setback and recharge areas and controlling them elsewhere. -- Updated modeling and technical information on recharge areas to supplement the Groundwater Needs Assessment to allow for a more accurate map of the recharge area. -- Formed a Pekin Groundwater Education Committee to implement the recommendations of the Illinois EPA in the pilot Needs Assessment and raise public awareness of the city's groundwater protection ordinance.

Rock Falls, City of IL

Years Designated 2011, 2010, 2009, 2008, 2007, 1998, 1997

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Web Site:

Community Profile:

Public wells provide the 9,600 residents of Rock Falls with 85 percent of their drinking water. The chief concerns are nitrates, arsenic, VOC's and SOC's in the water.

Result Oriented Activities:

Distributed nitrate "doorknockers" to 50 rural homes within the five-year recharge area. The doorknocker included two nitrate strips and instructions on how they can sample their own water for nitrates. -- Provided groundwater presentations to seven area schools 5th and 10th grade classes, reaching approximately 335 students. -- Provided a scholarship with the local electric department to a senior high school student.

Carmel IN

Years Designated 2011, 2010

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Community Profile:

Carmel is home to 68,000 people. Because the community relies 100% on groundwater and because the community is growing, concerns have arisen about stormwater runoff, over-irrigating of lawns and green spaces, the use of chemicals in wellhead protection areas, and proper disposal of chemicals. With rapid growth and heavy irrigation, groundwater sources are not recharging as quickly. Carmel uses Groundwater Guardian to bring awareness to the City's Wellhead Protection Areas and spread the word about the importance of water conservation.

Result Oriented Activities:

Planted trees and native grasses in the City's wellhead protection area. Signage marking the one year time-of-travel zones within the wellhead area were also added to raise awareness. -- Staffed a booth at an annual Earth Day/Arbor Day Celebration. Information about wellhead protection and the City's drinking water was provided to over 500 attendees. -- Included information about wellhead protection in the Utility's newsletter.

Elkhart IN

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2001, 2000, 1999, 1998, 1997, 1996, 1995

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Community Profile:

Groundwater provides 100 percent of the drinking water to 56,000 residents living in the City of Elkhart. Several sites within the community have been included on the Superfund National Priority List due to a threat of contamination from chemicals such as TCE. These threats have caused a great deal of concern for area residents who rely on groundwater for all of their drinking water needs. Elkhart uses the Groundwater Guardian program to increase public awareness and understanding about groundwater issues, to encourage citizens to become more involved in their community and to encourage water conservation and pollution protection.

Result Oriented Activities:

Continued to sponsor Kerplod! The Water Drop, a groundwater mascot used in schools, after-school programs, and at community events, reaching over 620 people directly with messages about groundwater as a valuable resource. -- Continued participation in the Adopt-A-River program by answering questions from the public and recruiting more groups to adopt sections of the Elkhart and St. Joseph River. -- Organized three river cleanups, two on the St. Joseph River that collected 17,920 pounds of trash, and one on the Elkhart River that collected 1,340 pounds of trash. -- Held EnviroFest at the Wellfield Botanical Gardens, attended by over 1,000 people that learned about wellfields, drinking water, groundwater and water protection. -- Hosted a water conservation seminar, distributing kits that contained faucet aerators, a water displacement device for the toilet, two leak detection dye tablets and a low flow shower head to the 19 attendees. -- Developed and distributed a water quality report to 17,500 water customers. -- Hosted a rain barrel workshop for 28 attendees. -- Conducted "Stop the Drop" and "Focus on Groundwater" educational programs at schools and the environmental center for over 220 students. The programs learn about water treatment and how actions today can affect groundwater quality.

Indianapolis-Marion County IN

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998

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Community Profile:

Indianapolis-Marion County's 880,000 residents receive the majority of their drinking water from surface water supplies; however, no additional surface water supplies are available and all growth in the public water supply will come from groundwater sources. Most of the productive aquifers in Marion County are relatively vulnerable to contamination from surface spills. Two of the wellfields are located in older areas of the city with heavy concentrations of industrial and commercial land use. Indianapolis-Marion County Groundwater Guardian is committed to working with owners of potential sources of contamination to teach them best practices.

Result Oriented Activities:

Continued to identify and educate business owners in the county that might be potential sources of groundwater contamination. Business owners receive information about groundwater, best management practices, and other resources offered by the Marion County Wellfield Education Corporation. A database registry of all potential sources of contamination is also updated, maintained and provided to water utilities for use in groundwater protection. -- Began reviewing the current groundwater protection program and preparing recommendations for changes to the Wellfield Protection Zoning Ordinance.

Valparaiso IN

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004

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Community Profile:

The 30,000 residents of Valparaiso are 100 percent dependent on local groundwater supplies for their drinking water needs. Current groundwater-related concerns and issues include both groundwater quality and quantity, as well as pollution prevention, road salt intrusion, and community outreach and education. Valparaiso uses Groundwater Guardian as a source of ideas and information to further the local wellhead protection program, and to become part of a network to help provide solutions to other communities with similar issues.

Result Oriented Activities:

Hosted National Drinking Water Week activities, which included newspaper articles, a mayoral proclamation, games and prizes, and a coloring contest for preschoolers. -- Sent Annual Water Quality Report to over 12,000 consumers, which included information about local wellhead protection efforts. -- Staffed informational booth at Northwest Indiana Earth Day Celebration, and provided information about groundwater protection and conservation. -- Continued to promote the Groundwater Guardian Green Site program to sites within the community. Green Site signs are displayed at two current sites, Valparaiso Country Club and Forest Park Golf Course. -- Distributed a calendar listing household hazardous waste collection events. The calendar was provided to all water customers and landowners in the wellhead protection area, and provides education about the proper disposal of hazardous waste.

McPherson County KS

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001

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Community Profile:

Groundwater supplies the 29,554 residents of McPherson County with 100 percent of their drinking water. Because groundwater is the only source of drinking water for the area, protecting the supply is of the utmost importance. The area remains in an Intensive Groundwater Use Control Area, which prohibits drilling new wells. Nitrate contamination continues to be a major concern in the County. At least two public supply wells have been lost to nitrates, and steps are currently being taken to remediate the wells back into the system. Other concerns include agricultural and waste runoff and private lagoons in the proximity of public supply wells. McPherson County uses Groundwater Guardian to promote public awareness by providing accurate information, develop a relationship between the water utility and citizens to promote wise water use, and provide information to educators in local schools.

Result Oriented Activities:

Planned and sponsored a Children's Water Festival for local 4th graders. Nearly 600 students participate in hands-on learning activities emphasizing the importance of groundwater and the aquifer.

Barnstable County (Cape Cod) MA

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997, 1996, 1995

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Community Profile:

Barnstable County's sandy, permeable soils and shallow depth to the water table make its groundwater particularly vulnerable to contamination. Water resource management efforts on Cape Cod focus on maintaining high quality drinking water within wellhead protection areas, and maintaining and improving water quality in ponds, lakes, rivers, bays, and harbors around Cape Cod. Because development pressures continue to encroach upon all of these areas and because groundwater flows across local boundaries, it is important to develop and implement a regional approach to groundwater protection. Barnstable County has a population of 205,000 with 99 percent relying on groundwater for its drinking water source. Barnstable County uses Groundwater Guardian to sponsor water conservation initiatives, water festivals and other public education activities.

Result Oriented Activities:

Continued to promote water conservation and best management practices through the TOUR (Tourism and Optimal Use of Resources) Program, which informs summer residents about Cape Cod's water resources and ways to conserve them by distributing 600 copies of water conservation materials to local hotels and motels, and the sixth annual Regional Rain Barrel Program, selling 200 rain barrels. -- Continued to update and maintain the Cape Cod Groundwater Guardian website. The entire site will be updated in the fall of 2011. -- Held 10 festivals for 16 schools with over 1,500 children participating. Teacher/AmeriCorps training sessions were held prior to the events. -- Worked with area communities on Project STORM (Stormwater Outreach for Regional Municipalities).

Battle Creek, City of MI

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001

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Community Profile:

Battle Creek uses one prolific wellfield, the Verona Wellfield, as the drinking water source for the city's 54,000 residents. It is located in the Marshall Sandstone Aquifer, which is fractured and bordered on its east side by a railroad yard. Twenty years ago contamination was discovered in the area and linked to dry cleaning solvents and questionable storage practices. As a precautionary measure, 12 blocking wells are used to protect the city's 22 production wells, and three backup wells are located in another wellfield. Current industrial activity near the city's main wellfield is a concern. Battle Creek uses Groundwater Guardian as a resource for goal setting and public education in groundwater protection.

Result Oriented Activities:

Continued implementation of a Facility Risk Evaluation Program that offers free, confidential environmental site assessments to businesses within the city's two wellhead protection areas. The program also offers an emergency spill prevention plan to businesses below the regulatory threshold. -- Worked with area school representatives to incorporate local water quality information into school curriculum at the K-12 and community college levels. -- Held the annual Children's Water Festival for over 1000 4th and 5th grade students. -- Participated in community events to share general information about groundwater and drinking water protection, household hazardous waste, and responsible use of fertilizers and pesticides. -- Continued working with adjacent communities to develop common groundwater protection ordinance language. -- Developed and distributed a 2011 wall calendar with water quality protection tips. The team also runs monthly letters to the editor in the local newspaper and targeted radio ads, and sends quarterly water bill inserts.

Coldwater MI

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997, 1996

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Community Profile:

Coldwater's population of 12,697 receives all of its drinking water from four public wells located within a 8.2 square mile area. Protecting the water supply and continuing to encourage conservation are top priorities for Coldwater's Groundwater Guardian team. Coldwater uses the Groundwater Guardian program to bring national attention to local groundwater protection efforts.

Result Oriented Activities:

Continued work on the Pollution Recycling and Reduction Initiative. Collection events were held for the community as part of the project. -- Educated elementary school children about the importance of conservation and pollution prevention through tours of water treatment facility and discussions with students and teachers. -- Included educational information in water bills and the Consumer Confidence Report. -- Continued to update and improve a source water protection program and management plan for the area's drinking water supply.

Greater Lansing Area MI

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997, 1996, 1995

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Community Profile:

The Greater Lansing Area's 300,000 residents receive 100 percent of their drinking water from local groundwater resources. Currently, groundwater-related concerns are carbon sequestration, unsealed abandoned wells, urban sprawl and additional infrastructure, as well as the ongoing education and involvement of elected officials. In addition, the need to close existing abandoned wells and control current well drilling in areas already supplied by public water concern the area. The Greater Lansing Area Groundwater Guardian team uses the program to gain information, ideas, and resources from other communities and for inspiration to continue protection efforts.

Result Oriented Activities:

Conducted a review of the implementation of wellhead protection plans in the area. Land use/master plans, ordinances, and site plan reviews were conducted as part of this project. -- Met with elected officials in area communities to discuss any recommended changes as part of the wellhead protection plan reviews. -- Updated the www.capitalareagrouhndwater.org website. It functions as a toolbox for groundwater and wellhead protection information for groundwater-dependent communities. -- Worked with an area Township to update their wellhead protection plan.

Kalamazoo, City of MI

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998

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Web Site: www.protectyourwater.net

Community Profile:

The City of Kalamazoo is an older, urban community with typical known and potential sources of contamination, including industrial and commercial sites. Groundwater provides all of the drinking water for the City's 122,000 water customers. Five of the City's 19 wellfields have had detectable levels of contamination, with two requiring air strippers to remove volatile organic compounds. The Kalamazoo Public Water Supply has 10 franchise agreements to provide water, with capture zones existing within 8 jurisdictions. Consequently, land use in all these areas is not specifically or uniformly managed for wellhead protection (WHP) purposes. However, Kalamazoo adopted a new WHP Zoning Overlay and Performance Standards, and actively participates in intergovernmental cooperation with a proactive approach to public education. Kalamazoo uses Groundwater Guardian to plan and implement non-technical WHP Program projects, as well as providing project framework to focus specific efforts.

Result Oriented Activities:

Continued comprehensive public education and outreach efforts, including classroom visits, community events, movie trailer ads, public events, website visits, presentations to youth groups, and facility tours. -- Began a survey of website visitors to determine how they learned about the website, providing valuable feedback on what type of education and outreach strategies are effective in driving traffic to the website. -- Collaborated with the Fire Marshal to help determine what businesses have chemicals exceeding specified thresholds. Public Safety Officers will direct business owners to complete an online or hard copy of a questionnaire to provide this information for the protection of local drinking water supplies.

Marshall, City of MI

Years Designated 2011, 2010, 2009, 2008, 2007

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Community Profile:

The City of Marshall's 7,500 residents rely on groundwater for 100 percent of their drinking water needs. Though there are currently no major problems with local drinking water supplies, residents are concerned about protecting groundwater resources for future uses. Marshall uses Groundwater Guardian to educate local citizens about the need to safeguard water resources and their role in its protection.

Result Oriented Activities:

Participated in the Calhoun County Conservation District's Earth Day celebration with the Water Jeopardy game to teach students about water resource conservation and protection. -- Participated in annual River Clean Up & Conservation Day by conducting tree planting, storm drain marking, native plant demonstrations, and providing information about groundwater and wellhead protection. -- Participated in the annual Battle Creek Children's Water Festival for thousands of school-aged children with an activity that investigated various water-related topics including the water cycle, groundwater pollution, and conservation. -- Participated in the Greening of Marshall by planting 80 trees, along with another 80 planned for planting in the fall. Participants and volunteers learned about water's vital role in everyone's daily lives.

Michigan State University MI

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002

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Community Profile:

Michigan State University is home to 50,000 students who receive 100 percent of their drinking water from groundwater. The majority of the campus water supply wells are located just to the south of the main campus where the University's agricultural research farms are located. These land uses within the recharge area may pose a threat to the groundwater supply. Michigan State uses Groundwater Guardian to build support for the University's drinking water and stormwater management programs.

Result Oriented Activities:

Began updating the wellhead protection plan for the campus. Personnel are working toward the implementation of the required elements of an approved wellhead protection plan, the first being the plan for new wells. -- Began conducting a University-wide water audit. Usage information for various sectors across the campus will be compiled, along with recommendations for water conservation and/or further study.

Texas, Charter Township of MI

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997

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Community Profile:

Groundwater supplies 100 percent of the drinking water to the 13,000 residents of Texas Township. Texas Township has many areas that are not serviced by a public waste water system so it is concerned about the impact on the aquifer. The Township is always seeking ways to protect the aquifer as it continues commercial and residential growth. Texas Township uses the Groundwater Guardian program to develop public awareness and understanding about the township's groundwater resources, educate the citizens on the protection of its aquifers and the importance of safeguarding this valuable resource, as well as to develop a voluntary/regulatory means for protection of the groundwater supply.

Result Oriented Activities:

Continued to distribute water testing kits to enable residents to perform annual water tests on their well water systems. Approximately 200 kits were distributed.

Detroit Lakes, City of MN

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997, 1996

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Community Profile:

Groundwater supplies 100 percent of the drinking water to the 8,100 people who live in the City of Detroit Lakes. The City is committed to locating and properly closing abandoned wells within capture zones and continues to seek funding for proper sealing. Detroit Lakes uses Groundwater Guardian to educate local students about the water system, involve the public in groundwater protection, and continue management practices of the land within the groundwater recharge area.

Result Oriented Activities:

Helped host water festivals at Rossman Elementary and Holy Rosary Catholic Schools for over 800 people. Students gave presentations about the importance of groundwater, and its protection and conservation. City staff serve as mentors, and provide tours of the water plant, wells, and wastewater treatment facility.

Holy Rosary Catholic School MN

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002

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Community Profile:

Holy Rosary Catholic School is located in the City of Detroit Lakes and receives all of its drinking water from local groundwater supplies. This elementary school is committed to educating its students and the surrounding community about the importance of protecting groundwater, and will use Groundwater Guardian to sponsor a water festival.

Result Oriented Activities:

Held the 2011 Water Festival attended by more than 500 students, parents, and the general public. Fourth grade students, working with mentors from Detroit Lakes, served as festival presenters and shared the groundwater protection message. Students also developed a television commercial to encourage viewers to protect and preserve groundwater.

Rossman School - Detroit Lakes MN

Years Designated 2011, 2010, 2009, 2008, 2006, 2005, 2004, 2003, 2002, 2001

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Community Profile:

Rossman School is located within the City of Detroit Lakes in western Minnesota. Because the residents rely on groundwater for all of their drinking water needs, educating the public and youth about the protection and conservation of this resource is the primary goal of the Rossman School Team.

Result Oriented Activities:

Held the 2011 Water Festival for 300 local students, teachers, mentors and the public. Rossman School 4th graders worked with the mentors from the community of Detroit Lakes and gave presentations on water treatment and groundwater preservation and conservation.

Greene County MO

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997, 1996, 1995

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Community Profile:

Greene County's 225,000 residents rely on groundwater for 35 percent of their drinking water needs. The county has two conditions which together increase jeopardy for groundwater resources: karst geology and a high rate of population growth. The presence of karst greatly increases the vulnerability of the shallow groundwater system which feeds springs, individual wells, and deep aquifers. Recently, the public has raised the issue of lowering groundwater levels due to increased development and unregulated use. Greene County uses Groundwater Guardian to work with residents on the issue of lowering groundwater levels and to assist in educational and monitoring efforts.

Result Oriented Activities:

Continued implementation of the Adopt-A-Spring program. Trained volunteers sampled area springs on a quarterly basis for phosphate, nitrate, pH, temperature, and e-coli analysis as indicators of groundwater quality.

Independence MO

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001

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Web Site:

Community Profile:

The 116,000 residents of Independence rely on groundwater for all their drinking water needs. However, the wells and treatment facility are located in an adjoining political entity so the City of Independence doesn't have control over zoning and land use. Currently, there are no major problems. A wellhead protection plan is in place and a network of early warning monitoring wells are tested on a routine basis. The plan calls for public education as a component, which is fulfilled through Groundwater Guardian efforts. The Independence team uses Groundwater Guardian for ideas and solutions in local groundwater education efforts.

Result Oriented Activities:

Provided groundwater education to 5th grade students from throughout the school district. Students toured the water plant, learning about the water cycle and the importance of keeping groundwater safe. -- Continued to work on a multi-year project with the USGS to update the City's groundwater model and monitoring well network. The model will now more accurately predict time and direction of groundwater flow, allowing for better monitoring of groundwater quality entering the well fields..

Sedalia MO

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005

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Web Site:

Community Profile:

Sedalia is home to 20,000 people. Sixty percent of the community's drinking water is supplied by groundwater. Current sedimentation rates are threatening surface water supplies, along with high levels of phosphorus and nitrogen. Dropping groundwater levels also are a concern for residents. Sedalia uses Groundwater Guardian to continue community education efforts.

Result Oriented Activities:

Provided education to the community through a newsletter with water bills, and presentations to community leaders, civic groups, and students. -- Conducted an Adopt a Storm Drain program. The team worked with volunteers to clean storm drains in their neighborhoods and stenciling them with a "do not dump" message.

Mecklenburg County NC

Years Designated 2011, 2010, 2009, 2008, 2007, 2006

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Community Profile:

In Mecklenburg County, population 850,178, approximately 20 percent of homes and businesses rely on groundwater as their drinking water source. Most of the people access groundwater through private and neighborhood wells. Mecklenburg County is in an urban area and has over 1,200 potential sites of contamination. It is important to protect the groundwater as a safe drinking water source and to identify areas where it is not safe to drink. Mecklenburg County uses Groundwater Guardian to participate in community events that provide opportunities to educate the public about the groundwater system.

Result Oriented Activities:

Held a fifth annual well contractors training seminar to train and update well contractors on local regulations and issues. Over 70 well contractors attended and received 8 CEUs. -- Facilitated a Project WET workshop for area teachers with information and hands-on activities focusing on the hydrologic cycle and groundwater resources. -- Participated in a Realtor Expo to educate realtors working in the county about local groundwater resources, as well as private wells and septic systems.

Orange County NC

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997

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Community Profile:

Approximately 37 percent of the drinking water needs for Orange County's 126,000 residents are met by local groundwater supplies. The County is working to proactively address the quality and quantity of local groundwater supplies, including radon and arsenic concentrations. In general, the County's groundwater is of acceptable quality, though concerns exist over the availability of groundwater, especially during periods of drought. Orange County uses Groundwater Guardian in local public education and awareness efforts.

Result Oriented Activities:

Continued collecting data for a groundwater observation well network to monitor groundwater levels across the county. The network serves as a drought monitoring tool. Three additional observation wells were added to the network. -- Participated in various community events and activities to educate the public about the importance of groundwater. A booth was set up to distribute information about local groundwater issues, and students were targeted for education through groundwater model presentations.

Beatrice NE

Years Designated 2011, 2010, 2009, 2008, 2007, 2006

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Community Profile:

The City of Beatrice relies on groundwater for all its drinking water needs. The city is home to over 12,000 residents. Drinking water is supplied by and blended from two separate wellfields. Nitrate levels in both wellfields are a concern, and the City plans to use Groundwater Guardian to help educate farmers and city residents about best management practices.

Result Oriented Activities:

Held an educational meeting for farmers with land in the wellhead protection area. Presentations included information on fertilizer use, soil sampling, and irrigation scheduling equipment. -- Held an educational meeting for city residents about lawn care, alternative plantings for water conservation, and fertilizer and chemical use.

Cargill Team Blair NE

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997, 1996

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Web Site:

Community Profile:

Blair is a mostly rural area, home to a population of 9,000, with an emphasis on agriculture, but is also home to several large industrial facilities, including Cargill. Cargill is a large industrial user of water, and its treatment and reuse are top priorities as the water used by the plant is returned to the environment. As an agricultural partner in the farming community, Cargill supports best land management practices, pollution prevention, and water conservation/reuse. Land and water conservation and pollution prevention are some of the most important issues for this community. Cargill Blair uses Groundwater Guardian to provide educational tools and activities in local schools and participates in the Nebraska Children's Groundwater Festival to extend its scope of beyond the local Blair community.

Result Oriented Activities:

Participated in several environmental education activities, including the 2011 Nebraska Children's Groundwater Festival. -- Worked with a Blair high school class to purchase water testing equipment for classrooms and for school field trips with the Groundwater Guardian team to do water studies of the area. -- Continued to work with local businesses to host a "Test Your Well" event.

Grand Island and Surrounding Area NE

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997, 1996

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Web Site:

Community Profile:

Grand Island relies on wells within the city and wells located on an island in the Platte River to supply the city's 42,940 residents with drinking water. The sand and gravel aquifer underlying the area is very porous, causing rapid recharge. While the porosity makes the aquifer suitable for well installation, any contaminants present can easily leach into the aquifer. Severe contamination from industrial solvents was discovered in 2003, as well as other pollutants in December 2004 and January 2006. Grand Island uses Groundwater Guardian to educate local citizens about the importance of keeping contaminants out of the water supply.

Result Oriented Activities:

Presented the "Water Rockets" activity at the 2011 Nebraska Children's Groundwater Festival. -- Provided volunteer assistance during the Hall County Household Hazardous Waste Clean-up Day. Paint, pesticides, mercury, computers, oil and other household wastes were collected. -- Set up an educational booth at the Grand Island Children's Day event. -- Worked with the local television station to document the progress of developing an Outdoor Learning Area at State Fair Park. The learning area will serve to educate the public about water quantity and quality, groundwater stewardship, natural filtration techniques, efficient water use, and the Ogallala Aquifer. The Grand Island team won \$10,000 for the project as part of Rain Bird's Intelligent Use of Water Awards program. -- Collected and recycled over thousands of pounds of plastic, aluminum and cardboard at Husker Harvest Days. -- Worked with a local school and Natural Resources District to clean up a portion of the Wood River.

Lincoln NE

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997, 1996, 1995

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Community Profile:

Lincoln's nearly 250,000 residents rely solely on groundwater for their drinking water needs. The Platte River provides most of the recharge for the city's water supply near Ashland, and has recently shown an increasing level of agricultural chemicals after rain storms. Continued drought also continues to be a concern for the area. The continued growth of Lincoln requires the city to continue long-term water conservation programs. Lincoln uses Groundwater Guardian as an avenue for public awareness and community education.

Result Oriented Activities:

Sponsored an annual water conservation poster contest for 5th grade students. The winning posters were featured on the city website, bookmarks distributed to city libraries, billboards, and busboards. -- Provided speakers for a water conservation Speakers Bureau. -- Continued to update and expand the City's website to include additional information about water conservation. -- Participated in the Earth Wellness Festival, presenting information about Lincoln Water System's water treatment process to around 300 5th grade students. -- Participated in the Lincoln Safari, which encourages families to get outside. Visitors receive a free gift with water conservation information. -- Installed a new rain garden garden at the Lincoln Water System office as part of an ongoing project to update the current native garden and demonstrate various water conserving landscaping. -- Aired public service announcements about water conservation on the City's local cable channels during Fix A Leak Week. -- Included the Groundwater Guardian logo on all water conservation literature and displays. -- Participated in a water education event at the Lincoln Children's Zoo.

Offutt Air Force Base NE

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997

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Community Profile:

As a result of past waste and resource management practices, some areas of Offutt AFB are contaminated by fuel and solvents. Solvent contamination has been detected off-base at three locations and is near the base in two other areas. Several other contaminant plumes are contained within the base. Two off-base wells have been impacted by vinyl chloride. Offutt AFB uses the Groundwater Guardian program to help monitor/control plume movement, continue pollution prevention and spill response measures, expand programs to educate the community about current pollution prevention measures, and encourage community members to participate in all environmental programs. Participation by Offutt AFB as a Groundwater Guardian Community is not intended to suggest or imply official endorsement of this private organization's events, products, or services by the United States Air Force or Department of Defense.

Result Oriented Activities:

Continued to identify groundwater monitoring wells for abandonment as part of a wellhead protection effort, eliminating a pathway for contamination to reach the aquifer. -- Conducted 65 environmental presentations about recycling, groundwater protection and pollution prevention at local elementary and middle schools, reaching over 1,400 students. -- Continued an underground storage tank monitoring program. Since the program began, 96 leaking tanks have been removed and the rest have been upgraded to include leak detection equipment and spill/overflow protection equipment. -- Continued to implement a Stormwater Management Plan, reducing the amount of sediment and contaminants entering surface and groundwater systems. Over 90% of the main base's storm drains have been marked with "Don't Pollute - Drains to River" message. -- Continued work on a recycling program to maintain a 40 percent recycling rate.

Seward County NE

Years Designated 2011, 2010, 2009, 2003, 2002, 2001, 2000, 1999, 1998, 1997, 1996, 1995, 1994

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Community Profile:

Seward County has a population of 17,000, which receives drinking water from local groundwater supplies. High nitrate levels continue to be of concern, along with an oil pipeline being constructed in the area. Seward County use the Groundwater Guardian program in its public education and policy and best practices implementation.

Result Oriented Activities:

Continued to work to pass a wellhead protection ordinance to protect local groundwater supplies from hazardous materials within City limits. -- Continued to monitored the operation of an oil pipeline through the county. -- Used evapotranspiration gauges, soil moisture probes, weather stations, and public education to encourage farmers to implement optimal irrigation techniques in order to conserve water and reduce the amount of fertilizer applied. -- Posted information about the Groundwater Guardian team's activities on the City of Seward Water Department's website.

Sidney NE

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000

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Community Profile:

The 6,282 citizens of Sidney use groundwater for all of their drinking water needs. The recent drought has forced the city to seek a more reliable source of groundwater 18 miles northwest of town, while placing stringent outside watering restrictions on residents. Levels of nitrate in the groundwater have been a concern since the early 1980s. Sources of nitrate include not only leaching and runoff from area farm fields, but excessive fertilizers applied to lawns in town. Sidney uses the Groundwater Guardian program to build awareness about local groundwater issues through public education.

Result Oriented Activities:

Promoted the Groundwater Guardian Green Site program to a variety of green spaces in and around Sidney. -- Continued co-sponsorship of the "Cash for Grass" Program. The program offers cash rebates to residents for replacing traditional irrigated lawns with drought-tolerant buffalo grasses and xeriscape. Over 38,000 square feet of irrigated lawn has been replaced since the program began, saving over 655,000 gallons of water per year. -- Continued implementation of wellhead protection activities. A plan was submitted to the Nebraska Department of Environmental Quality and received approval. -- Continued public awareness efforts, including a series of news articles dealing with groundwater levels in the Sidney area, the Cash for Grass program, groundwater quality reports, and well abandonment activities. -- Held the 21st Annual Western Nebraska Children's Groundwater Festival, attended by nearly 200 4th grade students and volunteers. -- Began working to expand and revitalize the Groundwater Guardian team with new members and new ideas.

Trenton, Village of NE

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997, 1996

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Community Profile:

Groundwater provides all of the drinking water for the 575 residents of Trenton. Two new wells provide excellent high quality water to the community, and the Groundwater Guardian team plans to reinforce citizen awareness regarding their drinking water and its protection. The new wellfield has been enrolled in the Conservation Reserve Program (CRP), with some additional private land also enrolled in CRP for wellhead protection. Trenton uses the Groundwater Guardian program to encourage water conservation in all areas of water use.

Result Oriented Activities:

Demonstrated a groundwater flow model to 45 5th-7th grade students in the county to demonstrate water movement and contamination -- Worked to implement best management practices around the Village's wells. -- Distributed educational pamphlets, printed articles in the local newspaper, held a poster contest, and participated in the annual Harvest Festival Parade to help increase public awareness about the importance of groundwater as a source of drinking water. -- Maintained the Village well field's involvement in the Groundwater Guardian Green Site program.

Wayne NE

Years Designated 2011

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Community Profile:

The City of Wayne's 5,800 residents rely on groundwater for all of their drinking water needs. Current groundwater concerns for the community include lack of zoning controls, the need for usage reduction, unknown location of potential contaminant plumes and agricultural spills, and the need for continued education. Wayne uses Groundwater Guardian as a means for community mobilization, public education, and political awareness in an organized effort.

Result Oriented Activities:

Worked to develop a wellhead protection plan for the protection of the City's drinking water supply. -- Held a Green Expo to educate the public about all things green, emphasizing water. Information about green cleaning products, recycling, landscaping, and more was provided. -- Formed a city council appointed Green Team to address environmental issues within the community and provide education. -- Created agreements with new subdivisions within the City to retain the first 1/2 inch of rain from impermeable surface on the property. -- Began implementation of a new system in the City's wastewater treatment process to help reduce evaporation. -- Installed demonstration water gardens at City Hall and in a new subdivision to demonstrate the water quality benefits of this practice.

Merrimack NH

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999

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Community Profile:

Because groundwater supplies 100 percent of the drinking water needs for Merrimack's 26,600 residents, keeping up with water demand throughout the town's build-out is a concern. Keeping the public aware of groundwater, watershed, and wellhead protection, as well water conservation practices, are top priorities for the community. In addition, the Groundwater Guardian team wants to emphasize wellhead protection, education of the community and especially town officials, and promote alternative landscape projects to the public.

Result Oriented Activities:

Made updates to the Village website highlighting its Groundwater Guardian status and information about protection efforts. -- Reviewed any planning changes presented to the Community Development board with the intent to protect the wellhead area and groundwater. The construction of a strip mall is currently being reviewed and monitored. -- Continued to facilitate self-guided tours of alternative landscaping to share ideas and increase knowledge of landscaping that promotes water conservation. High school classes visit the area in the fall to learn about various types of plants. -- Promoted water conservation by encouraging water customers to follow an odd/even watering schedule. The District also distributed a water conservation "water wheel," toothpaste tube rollers with water conservation tips, and toilet leak detection kits to water customers. -- Installed and maintained rain barrels at the District's offices as a collection point for non-potable water use.

Pompton Lakes NJ

Years Designated 2010, 2009, 2008, 2007, 2006, 2005, 2004

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Community Profile:

Pompton Lakes is located northwest of the New York City metro. The 10,000 residents utilize groundwater for all their domestic water needs. The community is concerned with protecting the area's groundwater from potential contamination. The Pompton Lakes team uses the Groundwater Guardian program in local public awareness efforts, and sponsors an annual River Cleanup.

Result Oriented Activities:

Sponsored the 8th Annual River Cleanup. Over 125 volunteers, including Rotary Club members, Chamber of Commerce members, the Mayor, and City Council members, collected over 90 30-gallon trash bags of debris. During the event, volunteers wore t-shirts with the Groundwater Guardian logo promoting the importance of groundwater and the need to be a Groundwater Guardian.

Stafford Township NJ

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997, 1996

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Community Profile:

Groundwater provides for all of the drinking water needs of the 28,376 residents in the Stafford Township area. Current groundwater concerns facing residents include saltwater intrusion, groundwater recharge, watershed management and development impact. Stafford Township uses Groundwater Guardian to help educate the public regarding potential sources of groundwater contamination and the importance of stormwater management to enhance clean groundwater recharge.

Result Oriented Activities:

Worked to promote design improvements of existing and future stormwater basins. The team worked to educate surrounding towns and help them review the design of these basins and implement improvements. Bioretention design principles have been integrated into design standards and ordinances.

Las Vegas Valley NV

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000

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Community Profile:

The Las Vegas Valley hydrographic basin has been over-appropriated since 1955 and the area's population of two million continues to grow. The declining water table has caused well failures and higher pumpage costs for public and private well users. In 1997 the Nevada Legislature authorized the SNWA to establish a Groundwater Management Program and the Advisory Committee for Groundwater Management. The Groundwater Management Program uses Groundwater Guardian to promote the importance of protecting groundwater supplies from contamination, as well as informing well users about important groundwater issues.

Result Oriented Activities:

Continued the Well Conversion Grant Program, which provided assistance to households wishing to connect to a municipal water system. -- Provided financial incentives to homeowners who replaced turf with water smart landscaping, such as drought tolerant plants and trees. Since the program's inception in 2002, 584 conversions have been completed, removing a total of 1.6 million square feet of turf. Water meters are also provided to help monitor usage, distributing 337 meters and 140 installation rebates to well owners since 2008. -- Provided funding to plug unused and abandoned wells. More than 300 unused wells have been closed as a result of the program. -- Held Advisory Committee meetings to work with the State Engineer and other stakeholders to address issues facing well owners in the valley.

Montgomery, Town of NY

Years Designated 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000

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Community Profile:

The 23,720 people who live in the Town of Montgomery receive all of their drinking water from local groundwater supplies. Currently, contamination from uncontrollable events and non-point source discharges are concerns for the area. Montgomery uses the Groundwater Guardian program in various educational programs.

Result Oriented Activities:

Prepared and distributed the Annual Water Quality Report to water customers and the Department of Health. -- Continued to enforce a local law requiring new water customers and existing commercial water customers to have water meters. -- Continued to run a Storm Water Management Plan that requires that all new development proposals include such plans. -- Implemented Stormwater Phase II requirements, including education and outreach, public involvement, illicit discharge detection and elimination, stormwater runoff control, stormwater management and pollution prevention for municipal operation.

Moodna Creek Watershed Intermunicipal Council NY

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004

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Community Profile:

The Moodna Creek watershed drains the eastern quarter of Orange County. A sand and gravel aquifer along the creek and its main tributary, Woodbury Creek, provide water to the nearby communities of Washingtonville, Cornwall, and Woodbury. The bedrock aquifers serve the Towns of Blooming Grove, Hamptonburgh, New Windsor, and Woodbury. The watershed is under intense growth pressure, and preservation of water quality in the creek is a major concern. The Moodna Watershed Intermunicipal Council is a confederation of citizens and officials from local and state agencies who recognize the need to protect the watershed. The coalition uses Groundwater Guardian to education the public about the threats to the watershed, as well as supporting County watershed planning and monitoring initiatives.

Result Oriented Activities:

Worked on formally organizing the Council with elected officers, committees, and determining a logo. -- Continued development and maintenance of a website with access to watershed materials, including maps, water conservation materials, slide presentations, meeting information, and more. -- Installed five pressure/temperature recording gauges on the Moodna Creek and three of its tributaries. The gauges will collect baseline data for education and demonstration projects to educate the public and municipal officials about the watershed problems and possible solutions.

Orange County NY

Years Designated 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997, 1996, 1995

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Community Profile:

In isolated instances the groundwater in Orange County has been polluted by industrial spills, leaking gasoline storage tanks and landfill leachate. Orange County is on the edge of the New York City metropolitan area and is subject to growth pressures as the County's 315,000 population continues to grow. Future water supplies for the County will come from groundwater, making the protection of potential and actual water supplies a priority. Orange County uses the Groundwater Guardian program to educate public and municipal leaders about potential groundwater supplies, potential groundwater contamination and the conservation of existing water supplies.

Result Oriented Activities:

Implemented Greening the Orange, a hands-on tree-planting program for areas schools and other youth organizations. -- Maintained and updated the Water Authority's web page, with downloadable water conservation materials, groundwater maps and report information. -- Continued work with 26 County municipalities and other agencies to improve the quality of stormwater runoff. -- Educated over 6,000 students about groundwater, water conservation, water quality and the impact of land use on water. -- Held the Orange County Soil and Water Conservation District's Conservation Field Days, a two-day event for 1,400 County 6th graders to learn about local environmental issues. -- Gave presentations to over 6,000 students in grades K-12 about the importance of water, wetlands, wildlife, land use, watersheds and nonpoint source pollution. -- Sponsored hazardous waste collection days. -- Continued bio-monitoring of over 100 stream sites in the County, including training volunteers and educating the public about stream biomonitoring. -- Continued work on a research, construction and education project addressing existing water quality problems in Greenwood Lake and Mountain Lodge Park and focusing on the use of decentralized wastewater planning methods and decentralized technology to provide cost-effective solutions for protecting water quality.

Orange County Audubon Society NY

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002

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Community Profile:

The Orange County Audubon Society is concerned about the quality and quantity of the area's groundwater, as well as the possibility of aquifer contamination due to runoff. The Society plans to use Groundwater Guardian to maintain wetland sanctuaries to act as natural filters and to continue to have undeveloped areas for the enjoyment of nature.

Result Oriented Activities:

Worked to increase awareness of the Society's sanctuaries, which contain 300 acres of wetlands on six sanctuaries. -- Increased visibility of the Society's Groundwater Guardian designation by posting additional Groundwater Guardian road signs, adding the logo to the new Society letterhead and publications, and on a visitor information kiosk. -- Participated in a local coalition to monitor a village's plans to use a potentially harmful herbicide.

Pine Bush Water District NY

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997, 1996

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Community Profile:

The 7,125 residents in the Pine Bush Water District receive all of their drinking water from the local groundwater supply. The District's top priorities include defining and protecting its sole source aquifer, finding another well for public use and ensuring potable water for the next 50 years. Pine Bush Water District utilizes the Groundwater Guardian network by using ideas from other Guardian communities to bring attention to the need for the protection and conservation of water resources.

Result Oriented Activities:

Continued to distribute the "Your Septic System (How it Works)" handout to citizens. The handout describes how a septic system works, how to maintain a septic system, and how to keep maintenance records. Approximately 500 people have received the handout. -- Continued marking local storm drains to remind citizens not to dump anything into the storm drains, with a positive impact on 1,000-2,000 people. -- Continued mapping new and existing wells to give the district and coordinating agencies and organizations a better picture of the aquifer. -- Prepared and distributed the Annual Water Quality Report to all 600 town water customers and the Department of Health.

Suffolk County NY

Years Designated 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998

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Community Profile:

The 1.4 million people who live in Suffolk County use groundwater for all of their drinking water needs. There is a public misconception about the quality of Long Island's groundwater, which the County wishes to dispel through public education. In addition, preventing pollution of their groundwater is another concern of residents. Suffolk County uses the Groundwater Guardian program as a means of coordinating, advancing, and publicizing ongoing efforts to dispel rumors and misinformation, educating the public, preventing pollution, and providing constructive input to policy-making decisions.

Result Oriented Activities:

Began initiating a public education campaign, including presentations in local schools, poster contests, video contests, programs targeted at businesses and agricultural producers, and the creation of a Suffolk County Groundwater Guardians website.

Walkill, Town of NY

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999

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Community Profile:

The 15,500 people who live in Walkill receive all of their drinking water from local groundwater supplies. Walkill's main wellfields are along the Walkill River and subject to potential contamination from an urban setting. The Town wishes to continue to protect its groundwater by educating its citizens about groundwater protection options and water conservation. Walkill uses the Groundwater Guardian program in its education and wellhead inspection programs.

Result Oriented Activities:

Prepared and distributed the Annual Water Quality Report to water customers and the Department of Health. The report includes information about water conservation and groundwater protection. -- Aired public service announcements regarding water conservation and wellhead protection on local cable television. -- Continued implementation of the Stormwater Phase II requirements, including education and outreach, public involvement, illicit discharge detection and elimination, stormwater runoff control, stormwater management and pollution prevention for municipal operation.

Brown County OH

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005

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Community Profile:

The Brown County Rural Water Association is a rural water system relying completely on groundwater, with wells over 70 feet deep tapping into the Ohio River Aquifer. This aquifer is highly susceptible to contamination, due to the sand and gravel composition of the aquifer and its proximity to potential contaminant sources. Specific contamination concerns include septic tanks, agricultural chemicals, highway traffic, and potential gravel mining operations. One production well was contaminated by VOCs in 1996. A pump-and-treat remediation system was installed as a result. Brown County uses Groundwater Guardian to educate the public about the importance of protecting groundwater resources and to instill a sense of ownership of the well fields in community residents.

Result Oriented Activities:

Developed a long-term wellhead protection management plan, which was approved by the Ohio EPA. As part of the plan, an additional 250 acres of land within the wellfield protection zone were purchased. -- Updated and maintained a website for the Brown County Rural Water Association and Groundwater Guardian team. The site includes links to federal, state, and local groundwater sites, as well as information about wellhead protection efforts, water treatment, and public education. -- Conducted wellhead protection committee meetings for local groundwater users. -- Adopted a section of highway US52 between White Oak Creek and Straight Creek for quarterly cleanups. This section of the highway is near community wellfields and is part of the wellhead protection area.

Dayton Multi-Jurisdictional Source Water Prot Prog OH

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997, 1996, 1995

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Community Profile:

The City of Dayton taps a sole source aquifer for 440,000 water consumers. Hundreds of businesses with 175 million pounds of hazardous materials operate near the wellfields. Over 17 million pounds of hazardous materials have been permanently removed from the Source Water Protection Area by financial incentives. Dayton, Huber Heights, Riverside, Vandalia, Harrison Township, and Wright-Patterson Air Force Base initiated a wellfield protection program using overlay zoning, monitoring, emergency response and financial incentives for risk reduction activities. Each jurisdiction has at least one person assigned to monitor compliance with the Source Water Protection Program. The Dayton Multi-Jurisdictional Source Water Protection Program uses Groundwater Guardian to increase citizen awareness of the wellfield protection program, provide groundwater and environmental education for children and provide groundwater education for the general public.

Result Oriented Activities:

Held the 15th Annual Children's Water Festival, which was attended by over 4,600 4th grade students and nearly 400 volunteers and presenters. It featured presentations, entertainers, mascots and outdoor activities. -- Celebrated its Groundwater Guardian designation and recognized its Multi-Jurisdictional partners during the festival's Dignitaries Luncheon. -- Worked to manage and oversee contracts for Multi-Jurisdictional Economic Development and Environmental Specialists through the Well Field Fund, which promotes groundwater-friendly economic development of the area. -- -- Worked to provided materials about the importance of water protection and the importance of water to the community at various economic development and business conferences. -- Continued the production of a quarterly newsletter, "PROGRESS News," for distribution to businesses and residents in the Wellfield Protection Area. Also developed and distributed Source Water Protection Program brochures, guides, and emergency contacts lists. -- Continued outreach activities, making over 60 environmental protection presentations to neighborhood groups, schools, and at community events and meetings. -- Began work to partner with a local museum to develop a water awareness exhibit illustrating Dayton within the Great Miami Buried Valley aquifer. -- Worked to include the Groundwater Guardian logo on the City of 2011 Groundwater Guardian Community Profiles ~ www.groundwater.org

Hamilton to New Baltimore OH

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997

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Community Profile:

The Hamilton to New Baltimore Groundwater Consortium is made up of the cities of Cincinnati, Fairfield, Hamilton, the SW Regional Water District, the SW OH Water Co. and MillerCoors LLC, and includes a population of 315,000. The Consortium wells are interrelated physically and directly influence the capture zone size of each system's wells. The Wellhead Protection (WHP) Area consists of a sand and gravel buried valley aquifer overlain by a densely populated industrial community. The majority of the wells behave hydrogeologically as a collective wellfield yet politically are separate. The characteristics that make it a productive source of drinking water are the same characteristics that make it susceptible to pollution from USTs, general chemical handling, dry wells, and improperly abandoned wells. The Consortium uses GG to inform the public about protecting groundwater resources, and teach a basic understanding of what groundwater is and how human activities may affect its quality.

Result Oriented Activities:

Administered the area's Source Water Protection Program. The Consortium worked with the City of Fairfield to update their ordinance. -- Continued to update and maintain the local Source Water Protection Program website. -- Planned and implemented a cleanup of the Great Miami River. -- Planned the 13th Butler County Water Festival, attended by over 1,000 4th, 5th, and 6th grade students. -- Implemented a program to install signage along the Great Miami River Bike path stressing the importance of protecting the drinking water source. -- Updated banners with the Groundwater Guardian logo at water plants and supply centers within the Consortium. -- Continued to update plaques with groundwater protection information at Consortium monitoring wells. -- Distributed a WHP Program newsletter for businesses within the WHP area. -- Continued to work with New Miami Village to set up a Groundwater Guardian team as part of their source water protection program's education and outreach. -- Planned and implemented an Earth Day event in downtown Hamilton attended by over 1,000 people. -- Worked in partnership with local agencies to plan and implement a River Days event to promote the recreational use of the Miami River while stressing the importance of protecting the river and aquifer. -- Received Source Water Protection Grant from Miami Conservancy District for a well abandonment program to encourage

Wright-Patterson Air Force Base OH

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998

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Community Profile:

The WPAFB community is concerned with the quality of the base's drinking water. This concern is due to the number of landfill contaminants that have been found throughout the base. Extensive remediation has been accomplished; however, it has been difficult to change perceptions. Wright-Patterson uses the Groundwater Guardian program to develop and provide public awareness programs regarding the remediation of landfill contaminants, as well as implement a wellfield protection program to prevent possible groundwater contamination.

Result Oriented Activities:

Continued to maintain an up-to-date inventory of facilities that identifies whether initial storage limits are exceeded and reduce the possibility of potential pollutant releases to the wellfield protection areas as part of a memorandum of understanding for the City of Dayton wellfields. -- Participated in the City of Dayton's Annual Children's Water Festival that reached over 1,000 Dayton area students. -- Continued to provide an education outreach program that reached 326 students and 195 adults during 16 sessions. -- Completed a Remedial Process Optimization of the groundwater treatment system to model the groundwater and surface water and ensure that existing remediation systems remain protective of human health and the environment. and the optimal utilization of an efficient system. Results of the process indicate a contamination plume of Trichloroethylene (TCE) is not migrating. An additional Remedial Process Optimization study is being conducted in a soil gas monitoring network. -- Removed five oil/water separators that pose a potential threat to groundwater quality.

Cambridge, City of Ontario

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997

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Web Site: www.cambridge.ca

Community Profile:

Within the City of Cambridge, some of the municipal wells are situated in industrial areas where there are known impacts to groundwater. The City's population of 131,000 continues to grow and will require additional wells to meet the growing water demand. Water conservation measures may reduce the rate at which the demand will increase. Cambridge uses the Groundwater Guardian program to provide educational materials to teachers and to support and participate in local activities that promote protection of groundwater resources.

Result Oriented Activities:

Continued outreach and public awareness activities in the community by participating in events with an interactive display and writing articles for the local newspaper. -- Continued work on a resource package for elementary teachers. The package provides activities, maps, and information specific to the water resources of the Cambridge area. -- Continued to review and update the Groundwater Guardian page on the City of Cambridge website. -- Continued working to recruit Groundwater Guardian Green Sites. -- Continued to explore the development of a "Blue Tour" program for public tours of water facilities.

Southern Willamette Valley GW Management Area OR

Years Designated 2011, 2010, 2009, 2008, 2007, 2006

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Community Profile:

A reconnaissance study done by the Oregon Department of Environmental Quality (ODEQ) in the 1990s and early 2000s indicated that private and public wells within the Southern (Upper) Willamette Valley were experiencing nitrate contamination. In 2004, the ODEQ declared the area as a groundwater management area. Oregon law requires that such a declaration be accompanied by the development of an action plan to reduce the contamination. This action plan must be developed by a committee representing local stakeholders and was completed in late 2006. This community will use the Groundwater Guardian program to focus on a select few of the implementation of strategies identified in the action plan.

Result Oriented Activities:

Developed a survey to determine what best management practices are currently being implemented or are considered being implemented by agricultural producers in the area. The survey will be conducted in a focused area of the Southern Willamette Valley Groundwater Management Area in the Spring of 2012.

Springfield OR

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997

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Community Profile:

Springfield's wells are distributed throughout the city and surrounding residential, agricultural, commercial and industrial land use areas. Groundwater supplies 90 percent of the city's 56,000 residents' drinking water needs. Some wells are in or adjacent to areas where leaks and spills have caused groundwater contamination, and these plumes are being tracked and some undergoing bioremediation. Springfield uses Groundwater Guardian to help publicize the city's reliance on groundwater and the contamination risks faced, support educational programs in schools, participate in local organizations and support ordinances that help reduce the risk to drinking water supplies.

Result Oriented Activities:

Worked with high school students to test water from 100 private household wells to provide a basic analysis and suggest alternatives for further testing and treatment. -- Completed the Camp Creek Project, a five-year effort involving 75 high school students, 10 teachers, and community members in a multi-faceted, multi-disciplinary approach toward the monitoring and restoration of the Camp Creek basin. Future efforts will continue and focus on the Cedar Creek basin. -- Began work on the Lane County Public Water System Notification System. The system is a collaboration between public water suppliers that will develop a process to notify public water systems when new development activity is proposed within their source water area, allowing them to submit comments and plan accordingly to minimize impact to source water. Various educational materials, including web content, has been developed to enhance the system. -- Instituted an inspection program to inventory and map stormwater quality facilities like bioswales and retention ponds, conduct inspections, and suggest corrective action if necessary. The program helps educate residents and business owners about the hydrologic connection between stormwater and groundwater in Springfield.

Buhl Community Water PA

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001

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Web Site:

Community Profile:

Groundwater is the sole source of drinking water for the residents of the Villages of Number Five Mine and London. Some of the groundwater-related concerns for this area include building public awareness and education, transient public (tourists) pollution prevention and conservation. The Villages use the Groundwater Guardian program to educate residents and tourists about the importance of groundwater protection through a variety of public information activities.

Result Oriented Activities:

Continued local groundwater education and outreach through presentations at local meetings and distributing educational materials.

Carbon County PA

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000

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Community Profile:

The 59,506 people who live in Carbon County receive 76 percent of their drinking water from local groundwater supplies. Currently, bacterial contamination of wells by septic tanks, suspected dumping of hazardous material into abandoned coal mine shafts, the lack of a recycling program for household hazardous waste, lack of well water testing and the general indifference to groundwater-related issues are concerns of area residents. Carbon County uses the Groundwater Guardian program to legitimize the group's efforts, facilitate networking, educate homeowners about wells and septic systems and raise the level of public perception of groundwater issues and how they relate to the county's drinking water.

Result Oriented Activities:

Continued to update and expand a website featuring local groundwater information and on-line resources. The team also added a Facebook page to further educate the community. -- Continued the low cost homeowner's well water testing program in partnership with Wilkes University. The program has reached out to all residents in the county and offers a complete evaluation and analysis at a reduced cost. -- Continued to collect and post precipitation data on the team's website from eight active monitoring stations in the county. The data is shared with a variety of agencies and organizations as well.

Meadville Area PA

Years Designated 2011, 2010, 2009

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Community Profile:

The Meadville Area Water Authority serves a population of 16,000 with all of the drinking water supplied by groundwater. In 2006, the Authority received a Source Water Protection Grant to delineate the source water area, identify potential contaminants from residential, commercial, and industrial sources, and to develop action items to protect source water. The Authority has developed a state-approved wellhead protection program and plans to maintain and update the program to work with municipalities, citizens, schools, and other organizations to provide education and make recommendations of needed ordinances to the proper governing bodies. The team's goal is to maintain and update the wellhead protection and source water protection areas, working with municipalities, citizens, schools, and other organizations to provide education and make recommendations of needed ordinances to the governing bodies.

Result Oriented Activities:

Provided Source Water Protection education to sixth graders at seven local elementary schools. The educational program includes a focus on local groundwater resources, water supply wells, the water distribution system, environmental threats to the system, and water conservation. -- Hosted a Source Water Protection Poster Contest for sixth graders at the local elementary schools during Drinking Water Week. Over 350 students participated in the contest. The winning poster is included in a booklet, on the Authority's website, and signage.

Shrewsbury Borough PA

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001

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Community Profile:

Shrewsbury Borough, with a population of 4,500, has all of its drinking water supplied by groundwater. It is currently exploring an additional water source and negotiating with a property owner for land acquisition. Shrewsbury Borough uses Groundwater Guardian to raise awareness through educational materials and networking.

Result Oriented Activities:

Worked with a local Boy Scout troop to mark Borough storm drains with a "Do Not Dump - Drains to Waterways" message. -- Drafted an interlocal agreement to protect wells outside of the Borough's jurisdiction and add specificity in order to protect groundwater across municipal boundaries. A geothermal well component was also added, which provides the water company a means of protection against vertical wells in critical zones.

Telford Borough PA

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998

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Community Profile:

Telford's 8,000 residents receive all of their drinking water from local groundwater supplies. Several of the Authority's wells have experienced contamination from volatile organic compounds, causing the Authority to take a proactive stand to prevent future problems. There are also concerns about the potential impacts of a nearby quarry and the geography of the area, which has caused groundwater quantity problems in the past. Telford uses the Groundwater Guardian program for public education and community input as well as land use and groundwater protection.

Result Oriented Activities:

Continued participation in a local speakers bureau providing speakers on water, sewer and wellhead protection issues. The bureau has been active since 1995 and has impacted over 10,000 citizens and meeting/conference attendees. -- Continued to update map of local inventory of potential contaminant sources, as well as an update of the local wellhead protection plan.

Washington County PA

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997, 1996, 1995

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Community Profile:

Groundwater provides 45 percent of the drinking water to the area's 204,000 residents. Current threats to groundwater include possible impacts from development of natural gas resources in the Marcellus Shale formation, particularly in the quality of well water, and the impact of urban and suburban development on groundwater. Washington County uses Groundwater Guardian to continue public education efforts in local schools and for the general public.

Result Oriented Activities:

Conducted monitoring for potential negative impacts from Marcellus Shale drilling. Monitoring equipment was installed in 22 streams throughout the county, and the data was distributed at various outreach events to residents of the county. Most of the county's streams are groundwater-fed. -- Conducted educational activities on improved stormwater management. Information was distributed at educational events about how expansion and development can impact groundwater and its recharge capacity.

North Kingstown RI

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997, 1996, 1995

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Community Profile:

The 26,296 people who live in North Kingstown rely on groundwater for all of their drinking water needs. Currently the community is concerned about the potential for bacterial contamination, as North Kingstown does not disinfect its water supply and relies on septic systems for wastewater disposal. The community is intent upon maintaining water quality to avoid chlorination, and is actively working to protect recharge areas through open space protection and education. North Kingstown uses Groundwater Guardian as a component of various education programs.

Result Oriented Activities:

Continued a public education initiative utilizing the quarterly water department newsletter and yearly environmental fair for the community, with an attendance of approximately 1,200. The initiative focuses on educating the community as a whole, as well as outreach with middle school students in particular, about proven groundwater protection principles.

Rural Aiken County SC

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999

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Web Site:

Community Profile:

The 15,500 residents who live in the area use groundwater for 50 percent of their domestic needs. Rapid development and industrial and residential growth has continued to tax a very limited aquifer. Drought continues to further magnify water supply problems. Aiken County uses the Groundwater Guardian for ideas and resources, to help consumers understand the value of water and educate the community about groundwater resources needing both protection and conservation.

Result Oriented Activities:

Continued public education efforts through the distribution of conservation and protection booklets to water customers and community members. -- Promoted xeriscaping to builders, developers, and homeowners as a means of water conservation. A decrease in peak water usage has been observed based on number of taps and weather conditions. -- Continued to provide children's educational materials such as coloring books, brochures, and fun giveaway items to local elementary schools. -- Included the Groundwater Guardian logo on the Breezy Hill Water and Sewer Company's Annual Consumer Confidence Report, as well as the company's building, stationery, advertising efforts and vehicles.

Memphis and Shelby County TN

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997, 1996, 1995

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Community Profile:

Shelby County's 1.1 million residents draw 100 percent of their drinking water from the largest public artesian water supply in the U.S. Protecting the purity and quality of this groundwater supply is imperative. In 1987, for the first time, one of the water wells used to supply public water showed traces of chemical contamination. At approximately the same time, wells in a smaller municipality were contaminated with TCE which had spilled at a nearby manufacturing facility several years earlier. The contamination of these wells revealed that the depth of the aquifer and its confining strata would not act as a barrier to the downward migration of the variety of chemicals generated by an urban society. Memphis and Shelby County use Groundwater Guardian to develop a comprehensive aquifer protection and conservation education program.

Result Oriented Activities:

Sampled and tested approximately 311 quasi-public wells located within Shelby County and 12 newly-installed residential wells for various contaminants. -- Continued the Well Survey Program. Over 118 wells were surveyed and three abandoned wells closed. -- Performed 21 site inspections of water wells to verify all construction standards were met. -- Reviewed all applications for proposed installation of remediation systems at sites throughout Shelby County. Issued 142 permits for remediation efforts and performed 130 site inspections. -- Updated a presentation on the value of water resources and the Memphis Sand Aquifer for use by the Ground Water Quality Control Board members for presentations to rotary clubs, schools, and other community groups. -- Reviewed 281 site plans and inspected 25 sites before new development was allowed in the aquifer recharge area. -- Continued to utilize GIS to map areas with greatest concern in relation to the Memphis Sand Aquifer. -- Sealed four abandoned water wells within Shelby County. -- Designated a permanent collection site for Household Hazardous Waste. -- Performed age-dating of local groundwater. Initial sampling and testing indicate no modern water is entering the Memphis sand aquifer. -- Properly abandoned 302 unused monitoring wells. -- Made 114 site inspections to properly site 78 subsurface sewage disposal systems within Shelby County.

North Plains Groundwater Conservation District TX

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005

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Web Site: www.npwd.org

Community Profile:

Groundwater depletion is the major concern for the eight counties within the North Plains Groundwater Conservation District. This region is home to over 71,000 people who utilize groundwater for 98 percent of their drinking water. Lack of recharge in this part of the Ogallala Aquifer indicates groundwater mining, and teaching water conservation and raising public awareness is a major goal of this District. Rules are now in place that regulate the amount of groundwater that can be pumped by well owners each year and that limit the proximity of new wells to existing wells. As a Groundwater Guardian Community, the District offers education to the public through outreach programs, public libraries, and school curricula.

Result Oriented Activities:

Held "Water Wonders" Festivals for 4th and 5th graders. Since 2005, over 4,200 students have been reached with messages about water protection and preservation. -- Provided water-themed books and materials to all elementary schools and public libraries within the District. -- Continued to work with Girl Scouts in eight counties to help them earn badges related to water and the environment. -- Held a day-long class on water-wise gardening and xeriscaping. The class has been held annually since 2005, reaching over 80 people. -- Distributed "Major Rivers" water conservation curriculum to 4th grade teachers and their students in the District. -- Sponsored a water conservation artwork contest for 4th- 6th graders in District counties. Thirteen winning entries are featured in a water conservation calendar provided free to the public, given away to hundreds each year. -- Presented water conservation activities in classrooms for 350 students in grades K-12. -- Presented groundwater information to more than 2,000 students attending Farm Bureau Ag Fairs. -- Sponsored two students to participate in the Texas State Water Camp, a week-long camp to encourage high school students to be water stewards. -- Began a five-year reduced irrigation for corn production demonstration project using the latest irrigation management strategies and techniques. The project is aimed at showing producers how their efficient use of water can help

Renton WA

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997, 1996

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Community Profile:

Renton is home to over 80,000 people that receive all of their drinking water from local groundwater supplies. The protection of a shallow aquifer located beneath downtown businesses from various forms of contamination is a top priority for the residents of the area, as well as maintaining quality and quantity of service in the face of new City growth. Renton uses the Groundwater Guardian program to raise awareness about local drinking water and groundwater issues.

Result Oriented Activities:

Hosted booth at the Renton River Days Festival to distribute educational materials to over 1,000 people. The booth helped educate children and adults about where the city gets its drinking water and what they can do to protect it, and included a fish tank model of an aquifer that kids can pump water from and groundwater games and activities.

Sequim-Dungeness WA

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002

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Community Profile:

The Sequim-Dungeness area of Washington is home to approximately 20,000 residents who receive 98 percent of their drinking water from groundwater supplies. Current groundwater problems facing the area include nonpoint source contamination of aquifers supplying the area's drinking water, the impact of groundwater development on streamflow in streams with endangered species and the potential for seawater intrusion. The Sequim-Dungeness team uses Groundwater Guardian to boost the discussion of groundwater resources and related concerns among residents, educate citizens about Best Management Practices to protect groundwater quality, gain media attention to bring the discussion to the forefront with policy makers and the public and demonstrate commitment to groundwater protection.

Result Oriented Activities:

Sponsored four septic system classes to educate rural residents about the operation and maintenance of on-site septic systems for approximately 400 people; an additional 40 successfully completed an online Septics 101 course. Newsletters and other activities have also continued to expose residents to the importance of maintaining their septic systems. -- Continued development of a comprehensive stormwater management strategy. The project, conducted with EPA, studies stormwater contaminants in surface and groundwater and prepares a strategy for the development of ordinances for regulatory protection of water quality in unincorporated areas of the county. Public forums were held as part of the process. -- Uploaded groundwater quality data to state online environmental database. -- Administered the county's groundwater protection program and groundwater quality and water level database. Technical assistance was provided to the public and agencies as part of the program, as well as outreach and management of a water supply stakeholder group.

Calumet WI

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003

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Community Profile:

Calumet County's 45,990 residents draw 98 percent of their drinking water from the local aquifer. Historically, private wells have tested positive for coliform bacteria and nitrate levels above 10 ppm. The county is especially sensitive to groundwater contamination from shallow soils overlying fractured dolomite bedrock and moderately developed Karst topography. The magnitude of current water quality problems indicate that multiple sources and land use activities are affecting groundwater supplies. Calumet uses Groundwater Guardian to increase awareness of groundwater problems, educate the public about land use and conservation practices, expand existing educational efforts to reach new audiences and build trust and relationships with community members and other citizen action groups.

Result Oriented Activities:

Assisted with the Clean Sweep hazardous waste collection event in Chilton and Harrison. -- Assisted in a water sampling event for area residents to help create awareness of the importance of annual water well testing. Test results are used by the Land and Water Conservation Department to assess any changes in the area's groundwater quality. -- Participated in rain garden cleanup at the Katie Hemmauer Memorial Rain Garden. -- Funded scholarships for three students to attend the Sand Lake Conservation Camp. -- Took part in the Fall Food and Energy Festival where informational materials were distributed and rain barrels were available for purchase. -- Completed and distributed a drinking water brochure to increase awareness of county groundwater issues, promote private well sampling, and promote better land use practices to improve groundwater quality.

Chippewa Falls WI

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997, 1996

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Community Profile:

The 13,515 people who live in Chippewa Falls use groundwater for all of their drinking water needs. The City of Chippewa Falls obtains its water supply from wells located in a shallow sand and gravel aquifer. These wells are in wellfields with the majority of the zone of contribution (ZOC) area outside city boundaries. Nitrate, iron, and manganese levels are a concern, along with the strong probability that over 400 acres of agricultural land in the ZOC will soon be developed for industrial, commercial and residential uses in the next five to ten years. Chippewa Falls uses Groundwater Guardian to educate residential, business and agricultural landowners.

Result Oriented Activities:

Demonstrated an aquifer recharge model and distributed Groundwater Guardian bracelets and groundwater information to 5th grade students at State Park Conservation Days. -- Continued a groundwater monitoring program to record and sample monitoring wells. -- Staffed informational booth at Northern Wisconsin State Fair, reaching approximately 65,000 people. -- Once again helped host the Safe & Green Sweep Project to collect and properly dispose of expired and unwanted pharmaceuticals. -- Began to identify and evaluate the City's monitoring wells to recommend proper closure of any inactive wells.

Kewaunee County WI

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005

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Community Profile:

Over 75 percent of the land in Kewaunee County is dedicated to agriculture, making the preservation of a clean, safe water supply for the public a top priority for the team. Recent private well testing indicates the presence of nitrates and bacteria, which has not only raised awareness but prompted well owners to become involved with the Groundwater Guardian team. The team is working to become a sustaining informational and educational, neutral organization that informs the public regarding potential groundwater contamination hazards. Kewaunee County, with a population of 20,648 and over 70 percent of the population's drinking water supplied by groundwater, uses Groundwater Guardian to educate the public about potential private well contaminants through well testing programs, school programs and local event booths.

Result Oriented Activities:

Assisted with the Kewaunee County Land and Water Conservation Department's well testing program. Team members worked with private well owners on proper well water sampling and the importance of regular private well testing. Over 90 wells were tested. -- Assisted with the sixth annual Kewaunee County Groundwater Festival. Nearly 250 fifth grade students, teachers and volunteers from throughout the county participated in the Festival and learned about Wisconsin's groundwater resources. The festival helps enhance the ability and motivation of students and their teachers to understand and take responsible action regarding environmental issues affecting groundwater resources. -- Hosted a nitrate testing booth at the Kewaunee County Fair. Seven people had their water tested for nitrates while another 50 came to the booth for more information during the fair. Rain barrels made by the Groundwater Guardian team were also displayed and sold to visitors.

Marshfield Area WI

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997

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Community Profile:

The 20,000 residents of the Marshfield area receive all their drinking water from local groundwater supplies. Marshfield's municipal wells are shallow (50-90 feet deep) and exist in narrow, confined bedrock channels. Domestic and farm wells are low yielding wells drilled into fractured rock. Top soil consists of 8 to 10 feet of tight clay soils, which limits recharge. Marshfield uses Groundwater Guardian to promote education and awareness of the need for groundwater protection.

Result Oriented Activities:

Continued to maintain and update the website for the Marshfield Area Groundwater Guardians. Visitors from around the world have used the site. The GG team also uses the site for all their communication needs, thus eliminating the need for paper correspondence. -- Partnered to hold a Green Expo that provided displays, presentations, workshops, and hands-on activities regarding conservation, efficiency, and groundwater protection for approximately 1000 community residents. -- Continued the Rx Round-Up Pharmaceutical Take-Back Program. Unused/expired pharmaceuticals are collected from residents and properly disposed of through incineration. Since the program began in 2006, over 3,600 pounds have been collected. -- Continue to promote and explain the efforts of the Marshfield Groundwater Guardian program to generate interest in the group's efforts and recruit new team members. The ad runs on the local AM and FM radio station monthly. -- Continued to promote the Groundwater Guardian Green Site program and offer assistance throughout the community; three sites in Marshfield have earned designation.

Milladore Area WI

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003

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Community Profile:

The Village of Milladore and the Towns of Eau Plaine and Milladore make up the Milladore Area. This area relies solely on groundwater for all its drinking water needs. Testing has indicated the presence of bacteria in drinking water, and the Milladore Area Groundwater Guardian team uses the program to educate the public and youth about keeping groundwater a priority in their everyday lives.

Result Oriented Activities:

Conducted awareness activities during Groundwater Awareness Week and Fix a Leak Week. Information and presentations were provided at town board meetings and to the public about the importance of water conservation and efficient usage.

Casper Aquifer Protection Network WY

Years Designated 2011, 2010

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Community Profile:

The Casper Aquifer Protection (CAP) Network is made up of private well owners located in or near the Casper Aquifer Protection Zone, and includes roughly 1000 people that depend on groundwater for all their drinking water needs. While there are no serious problems with the area's groundwater supply, Network members want to educate rural property owners about ways they can protect groundwater quality through wellhead and septic tank maintenance, regular water quality testing, and environmental awareness. The CAP Network uses Groundwater Guardian to provide information to property owners in the community.

Result Oriented Activities:

Produced and distributed a CAP Network newsletter for property owners located on or near the Casper Formation Aquifer with information about groundwater protection through well testing and maintenance, septic tank maintenance, and environmental awareness.

Alabama Department of Agriculture and Industries AL

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998

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Affiliate Profile:

Mission: To educate the general public about pesticides, use, safety, worker protection and endangered species with special programs in pesticide waste collection, plastic pesticide container recycling, worker protection standards and school IPM. To be the state lead agency in regards to FIFRA and the implementation of all pesticide laws. Service Area: The State of Alabama.

Result Oriented Services:

Worked to recruit new communities into the Groundwater Guardian program through breakout sessions at the annual groundwater conference. -- Assisted with the state's Groundwater Festivals program by helping find funding and providing support to add to the counties in Alabama with active festival programs. -- Continued to work to implement the School Integrated Pest Management Program into Alabama's school systems. Integrated pest management has been expanded into three new school districts and has reached well over 25,000 students since starting in 2000.

Alabama Dept. of Environmental Management (ADEM) AL

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997

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Web Site:

Affiliate Profile:

Mission: To provide technical, financial and program support to communities and utilities throughout the state regarding groundwater protection and assessment. Service Area: The State of Alabama.

Result Oriented Services:

Continued to work to recruit new Groundwater Guardian Communities. -- Provided education and information support to current and potential Alabama Groundwater Guardian teams through the annual Alabama Groundwater Conference, which approximately 120 people attended. -- Continued to partner with the Alabama Rural Water Association to provide technical assistance to communities developing a wellhead protection program, installing new wells, conducting potential contaminant source inventories and developing protection programs at the local level. Fifteen source water assessments were reviewed. -- Provided funding for groundwater and water festivals around the state of Alabama. This is the 14th year of groundwater and water festivals. Since the first festival in Madison County, approximately 212,000 students, 4,850 teachers and 2,150 volunteers have participated across the state.

Alameda County Water District CA

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998

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Affiliate Profile:

Mission: To manage and protect the Niles Cone Groundwater Basin and ensure a reliable supply of high quality water that satisfies present and future uses of the service area at a reasonable cost. Service Area: The cities of Fremont, Newark and Union City; a 104.8 square-mile area with a population of over 330,000.

Result Oriented Services:

Continued education and information support in area schools and communities. Over 1,600 students participated in programs that stress the importance of groundwater during the 2010-2011 school year. Another 71 classes received materials about groundwater. Pamphlets and brochures explaining the importance and benefits of groundwater protection, pollution prevention and water conservation methods were distributed at public events as well as in water bill inserts. -- Posted information and updates about the groundwater basin, District programs and Groundwater Guardian on the District's website. -- Continued to update the District's groundwater management plan, including groundwater monitoring and reporting on groundwater conditions. -- Implemented an ordinance to regulate wells, exploratory holes, and other excavations in district communities. -- Used historical maps and documents to locate abandoned wells and evaluate their potential to negatively impact the groundwater basin.

Mission Springs Water District CA

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997

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Affiliate Profile:

Mission: To provide, protect, and preserve our most valuable resource - water. Service Area: The district operates three separate water distribution systems and two separate wastewater collection and treatment systems, serving Desert Hot Springs, 10 smaller communities in Riverside County, mobile home parks, resorts and a small portion of Palm Springs. The service area includes 135 square miles and over 25,000 people.

Result Oriented Services:

Continued to provide support to the Desert Hot Springs Groundwater Guardian team in the form of office storage, operating space, administrative support and technical support. -- Provided \$30,000 in funding to support the various groundwater protection and education activities of the Desert Hot Springs Groundwater Guardian team during the 2010/2011 fiscal year.

Santa Clara Valley Water District CA

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000

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Affiliate Profile:

Mission: To aggressively protect the groundwater basin from contamination and the threat of contamination, and ensure groundwater supplies are sustained. The District manages Santa Clara County's wholesale drinking water resources, coordinates flood protection, and provides stewardship for the county's 10 reservoirs and more than 700 miles of streams. Service Area: Santa Clara County, a 1,300 square mile area with a population of over 1.8 million people.

Result Oriented Services:

Continued to implement a water conservation program which included rebates for water-efficient water fixtures in homes and businesses, free "Water Wise House Calls," and extensive outreach and education. In 2011, the District conducted 2,361 "Water Wise House Call" surveys, issued rebates for/or installed 5,460 residential and 1,126 commercial high-efficiency toilets, issued 208 commercial clothes washer rebates and installed 303 weather-based irrigation controllers. The program saved over 52,700 acre feet of water, which is approximately 13 percent of the total water used in the county. -- Continued a groundwater management program which inspects well construction/destruction, monitors groundwater levels and water quality, evaluates potential groundwater quality threats, distributes information and supports outreach programs, and coordinates with other agencies. As part of the program, the District hosted to open houses for well owners and participated in an educational series. Fact sheets on nitrates, perchlorate, chromium-6 and more were also developed. -- Continued an educational outreach program, making classroom presentations, giving tours, and training teachers. Over 18,000 students and 800 educators were involved during the 2010-2011 year. Staff also engaged high school students in a career

Water Education Foundation CA

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997

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Affiliate Profile:

Mission: To create a better understanding of groundwater issues and help resolve groundwater problems through educational programs. Service Area: The western United States, particularly the states sharing the Colorado River (California, Nevada, Arizona, Utah, Colorado, New Mexico and Wyoming).

Result Oriented Services:

Held an executive briefing and various tours of the portions of the state that discuss various water issues. Groundwater issues and the Groundwater Guardian program were included in the events.

Central Regional GW Protection Planning Committee IL

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997

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Affiliate Profile:

Mission: To develop and implement local programs aimed at preventing groundwater contamination. The organization attempts to do this by educating adults and children about risk factors and methods of pollution prevention. Service Area: Central Illinois, including Mason, Peoria, Tazewell and Woodford Counties.

Result Oriented Services:

Continued to co-sponsor the Clean Water Celebration for nearly 3,000 students to learn about water and encourage them to make a difference in the protection of this precious natural resource. -- Organized the Tazewell County Health Department Environmental Education Day for 400 county 5th graders, who participated in hands-on activities and learned about groundwater geology, the water cycle, recycling and pollution prevention. -- Sponsored three Test Your Well Days throughout the region, partnering with local health departments to offer nitrate tests and provide information about wells and groundwater protection. The events are geared to wellowners in rural farming areas. -- Provided a program for snow removal operators to educate them about chlorides and their potential hazards.

Northeastern Regional GW Protection Planning Comm. IL

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997

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Affiliate Profile:

Mission: To advocate groundwater protection practices, procedures, and education throughout the Northeastern Planning Region. The Northeastern Illinois Groundwater Regional Protection Planning Committee is organized as a protective and collaborative effort of citizens, businesses, and local and state government officials to further groundwater protection in this sensitive region. Service Area: DuPage, Kane, Kankakee, Kendall, and Will counties.

Result Oriented Services:

Held a Field Day, where information about groundwater protection and conservation was presented to the general public. -- Continued program to purchase ample quantities of bentonite to provide through local health departments to private well owners who want or need to seal a private well. The committee also provides funding to each health department to promote the program. -- Participated in many regional community outreach events with activities and giveaway items, which reached several thousand people, including open houses, the Kendall County Natural Resource Tour, school group meetings and Earth Day and Arbor Day celebrations. The Committee also created a Facebook page to reach additional members of the public. -- Sponsored a Committee member to attend and present at The Groundwater Foundation's 2011 National Conference.

Northern Regional GW Protection Planning Comm. IL

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997

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Affiliate Profile:

Mission: Established in 1991, the Committee emphasizes information transfer, education, and advocacy rather than regulation. Service Area: Winnebago, Boone and McHenry Counties in Illinois.

Result Oriented Services:

Worked with McHenry County to develop a Water Resources Action Plan to ensure ample water supply. -- Continued to develop programs to educate county boards, city councils, and planning/zoning officials about groundwater protection, which included working with McHenry County on their groundwater protection program, working with the City of Loves Park to abandon 36 more unused private wells, attending meetings of the Regional Water Supply Planning Group as part of the Chicago Metropolitan Agency for Planning and working with communities to become Groundwater Guardians. -- Conducted public education and outreach by participating in the 17th annual youth groundwater festival at Rock Valley College which drew more than 500 fourth and fifth graders, the Boone County Fair, McHenry County Field Day, and other local initiatives. -- Continued to work with Winnebago, Boone and McHenry Counties to abandon unused wells. Over 230 have been abandoned since 2001, and an additional 11 were abandoned last year. -- Helped support a water table management structure, along with the Boone County Conservation District, to install a practice that will demonstrate the benefits of managing the shallow water table for crops, wildlife, increased groundwater recharge and

Southern Regional GW Protection Planning Comm. IL

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997

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Affiliate Profile:

Mission: To advocate groundwater protection practices and procedures throughout the Southern Illinois Planning Region. Service Area: Madison, St. Clair, Monroe and Randolph Counties in Southwestern Illinois.

Result Oriented Services:

Hosted a groundwater field day with various educational activities and speakers. Over 50 people attended. -- Continued to maintain and update a library of groundwater educational materials for loan to citizens, schools, and other interested groups. The library consists of books, pamphlets, flow models, videos, and a traveling display. -- Offered biannual low-cost pesticide screenings for private wells. -- Continued to promote well sealing as a means of groundwater protection and to provide betonite for use in sealing. -- Continued to work to recruit new Groundwater Guardian Communities within the four county area. -- Promoted and assisted homeowners with well sampling and testing for bacteria and nitrates.

Indiana Department of Environmental Management IN

Years Designated 2011, 2010, 2009, 2008

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Affiliate Profile:

Mission: To provide guidance for public water systems in establishing Wellhead Protection Plans and Source Water Assessments and to promote local efforts to protect Indiana's groundwater resources, which includes promotion of the Hoosier Water Guardian program and the Groundwater Guardian program through outreach, recognition, and technical support. Service Area: The state of Indiana with a population of 6.3 million.

Result Oriented Services:

Provided education and support to public water systems in Indiana communities through various outreach activities. Groundwater and wellhead protection were promoted through the Hoosier Water Guardian and Groundwater Guardian programs.

U.S. Geological Survey (USGS) Michigan Water Science Center MI

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2001, 2000, 1999, 1998

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Affiliate Profile:

Mission: USGS has the principal responsibility within the federal government to provide hydrologic information and understanding needed by others to achieve the best use and management of the nation's groundwater. To accomplish this, USGS, in cooperation with state, local and other federal agencies, systematically collects and analyzes groundwater data; conducts water-resource appraisals describing the occurrence, availability, and physical, chemical, and biological characteristics of groundwater; conducts basic and problem-oriented hydrologic and related research that aids in alleviating groundwater problems; and provides and understanding of groundwater systems sufficient to predict their response to natural and/or human-induced stress. Service Area: The State of Michigan and multi-state initiatives sponsored by the USGS and other federal agencies.

Result Oriented Services:

Made real-time data available online for two groundwater stations. Continuous and discrete data, as well as water quality data, is available for other groundwater sites throughout the state. -- Began investigating the potential effects of irrigation withdrawals on aquifer levels and local streamflow through a number of groundwater model scenarios. -- Continued work on a Great Lakes Basin pilot for the development of a regional groundwater flow model as part of a national assessment of water availability and use project. -- Presented at the Lansing Area Children's Groundwater Festival.

Mecklenburg County Groundwater & Wastewater NC

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998

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Affiliate Profile:

Mission: In order to protect the public's health through the protection of groundwater resources, the Groundwater and Wastewater Program approves and oversees private wells, wastewater treatment and disposal systems and other regulated sites. Service Area: Mecklenburg County is a 528 square-mile area located in the southern Piedmont region of North Carolina. It is home to more than 600,000 people (20 percent utilizing groundwater) and is the center of a seven county metropolitan statistical area with an aggregate population of more than 1.3 million people. Mecklenburg County is divided into seven incorporated municipalities, ranging in size from Charlotte at 207 square miles to Pineville at 3.0 square miles.

Result Oriented Services:

Supported the Mecklenburg County Groundwater Guardian team's Well Contractors training by providing financial support, hosting the workshop, providing professional speakers, providing administrative support for registration and the submittal of the CEU credit form to the North Carolina Well Contractors Certification Board. -- Identified and inspected septic systems in the county's Goose Creek Watershed. Failing septic systems were repaired and brought into compliance with state and local onsite wastewater regulations. In addition, 927 drinking water wells were identified and registered in a GIS database.

Central Nebr. Regional Water Conserv. Task Force NE

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997

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Affiliate Profile:

Mission: To provide recommendations on the integrated management of surface water and groundwater that addresses beneficial uses such as irrigation, municipal supplies, fish and wildlife, recreation, water quality maintenance and groundwater recharge. Service Area: Portions of Lincoln, Frontier, Dawson, Gosper, Phelps and Kearney Counties.

Result Oriented Services:

Continued to work to recruit new Groundwater Guardians, and offer assistance to existing and potential Groundwater Guardian Communities on surface and groundwater issues.

South Platte Natural Resources District NE

Years Designated 2011, 2010

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Affiliate Profile:

Mission: To formulate and instigate forward-looking plans and programs through a cooperative process that will provide for the long-term protection and enhancement of the district's natural resources while ensuring that major economic and social impacts are fully considered. State law gives Nebraska's Natural Resources Districts (NRDs) the first responsibility for protecting groundwater from overuse, nonpoint source pollution, or conflicts between users of groundwater and surface water. In many cases, NRDs accomplish this by establishing groundwater management areas and adopting regulatory controls in those areas. Groundwater is a vital resource to the district. Homeowners, cities and industry rely on groundwater as their sole source of water. Service area: The Nebraska counties of Kimball, Cheyenne, and Deuel. The area includes 1.65 million acres with a population of over 16,000.

Result Oriented Services:

Worked to introduce the Groundwater Guardian program to communities within the District. -- Coordinated and hosted the Western Nebraska Children's Groundwater Festival, attended by nearly 200 4th grade students and volunteers from throughout the District. -- Held a Landscape Wise workshop that provided education about plant selection, irrigation, mulching, composting, and responsible chemical use.

U.S. Geological Survey (USGS) Nebraska Water Science Center NE

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997

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Affiliate Profile:

Mission: The mission of the USGS Nebraska Water Science Center is to provide hydrologic information and understanding needed by others to achieve the best use and management of the nation's groundwater. The Nebraska Water Science Center works to create and take advantage of opportunities to educate both young people and adults about the groundwater resource. Service Area: The State of Nebraska.

Result Oriented Services:

Participated in several outreach events in Nebraska to help communicate water science to the public and to tell them about the Groundwater Guardian program, including the Nebraska's Children's Groundwater Festival, three science fairs, Science Olympiad contests, and a stream cleanup of the Elkhorn River.

University of Nebraska-Lincoln Water Center NE

Years Designated 2011, 2010

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Affiliate Profile:

To coordinate, implement, and facilitate water and water-related research, extension, teaching, and outreach programming within the University of Nebraska system as part of its Institute of Natural Resources and School of Natural Resources. The Water Center has been a fixture at UNL for more than 40 years, being established as the Nebraska Water Resources Research Institute by Congressional mandate in 1964. It is one of a network of more than 54 water resources research institutes at Land Grant Universities nationwide. Service Area: State of Nebraska.

Result Oriented Services:

Facilitated a partnership between local Groundwater Guardian teams and UNL faculty and students. -- Provided Nebraska Groundwater Guardian teams the opportunity to publicize their work in the Water Center's publications.

Miami Conservancy District OH

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003

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Affiliate Profile:

Mission: To maintain a groundwater monitoring network that provides valuable data on groundwater quality and quantity in the watershed of the Great Miami River. To conduct special groundwater investigations individually or in partnership with other government agencies that address groundwater issues of concern in the watershed. Service Area: The watershed of the Great Miami River in southwest Ohio. The watershed encompasses over 5,000 square miles, is home to 1.3 million people, and groundwater provides drinking water to 91 percent of the population.

Result Oriented Services:

Continued work on a Groundwater Monitoring Network to provide important data on groundwater quality and quantity in the Great Miami River Watershed. Sampling has been conducted on the Great Miami River twice a month for pathogens, and groundwater from public supply wells has also been sampled. Two water quality reports were published from network data. -- Partnered with local organizations to reduce water quality degradation. Partnered with public health in Dayton and Montgomery Counties to conduct an abandoned well sealing program that provides a cost-match for wellowners to properly seal these wells. The District also partnered with the Preble County Historical Society to install bioretention areas around an amphitheater parking lot.

Lane County Water Quality Affiliate OR

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999

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Affiliate Profile:

Mission: To assist the people of Lane County, Oregon and the region with groundwater protection, to promote pro-active groundwater activities and educational programming, to assist with the development and implementation of policy and practices for a new regional groundwater management area, and to assist and coordinate the regional pesticide collections for the region. Service Area: Lane County has a population of approximately 300,000 people, with a mix of urban and rural communities. There are eight towns and cities in the area.

Result Oriented Services:

Continued to work on regional groundwater education through a regional groundwater management area. Various educational programs and talks have been given to residents in the area. -- Continued to make contacts to encourage communities to participate in the Groundwater Guardian program. -- Answered water quality information requests from governmental bodies looking for good, solid research-based water quality information.

PA Rural Water Assoc. Source Water Prot. Program PA

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001

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Affiliate Profile:

Mission: To provide technical assistance and training to drinking water systems throughout Pennsylvania on the development, funding, and implementation of wellhead and source water protection programs. Service Area: The State of Pennsylvania, including municipal and non-municipal community water supplies and non-community water supplies.

Result Oriented Services:

Distributed information about Groundwater Guardian at the Pennsylvania Rural Water Association Conference, through mailings, and online. -- Provided technical assistance to source water and wellhead protection efforts across Pennsylvania, including assisting 55 communities developing source water/wellhead protection plans and offering various educational courses.

Pennsylvania Water Resources Education Network PA

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999, 1998, 1997

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Affiliate Profile:

Mission: The Pennsylvania Water Resources Education Network (WREN) is a nonpartisan informal collaboration among organizations and public officials working together for the protection and management of Pennsylvania's water resources, both surface and groundwater, through grassroots education and informed policymaking. Service Area: The State of Pennsylvania.

Result Oriented Services:

Awarded grants to 15 community-based partnerships throughout Pennsylvania to conduct citizen education projects that focus on protecting the community's watershed. An annual orientation and networking meeting was held for the grant awardees and each was provided information about the Groundwater Guardian program. Three source water protection workshops were also held. -- Distributed "Water Policy News" electronically to over 2,000 people three times a year, while during the other months an electronic e-news update is sent. WREN also maintains two websites which feature the Groundwater Guardian Community program and other resources for communities interested in groundwater and source water protection.

Kewaunee County Land & Water Conservation Dept. WI

Years Designated 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004

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Affiliate Profile:

Mission: To provide technical and/or financial assistance to Kewaunee County landowners, landusers, and municipalities in their effort to combat nonpoint source water pollution and its detrimental impacts on the County's local surface and groundwater resources. To establish groundwater protection as a high priority in Kewaunee County and to assist Wisconsin in promoting stewardship and sound management of groundwater resources. Service Area: Kewaunee County, with a population of 20,648 and covering 331 square miles, with it roughly 76 percent agricultural land, 4.4 percent residential development, 13 percent forests and 8 percent wetlands. The County includes 15 inland lakes, 26 rivers and streams, and a variety of woodlands, forested wetlands and grasslands.

Result Oriented Services:

Continued to assist the local Kewaunee County Groundwater Guardian Community through running local meetings, assisting with activities, providing funding, and expanding membership. Nitrate testing was also provided at the county fair and rain barrels were sold. -- Continued a private well testing program, testing 425 wells since the program began in 2004. Thirty-one new wells were tested in this round, and an educational seminar was held for people receiving their well test results. -- Helped coordinate the 6th Annual Kewaunee County Groundwater Festival for 182 5th grade students, who rotate through three different hands-on activities, with over 50 volunteers, 25 from a local high school environmental science class.