



Department of Environmental Services Drinking Water Source Protection Workshop

Tuesday, May 10, 2011 (8:30 am – 4:00 pm)
Grappone Conference Center
70 Constitution Avenue,
Concord, NH 03301

Sponsored by
American Ground Water Trust
Concord, New Hampshire
A 501(c)(3) non-profit organization



Register online: www.agwt.org
Registration fee \$40
Exhibit Table \$100

AGENDA

- 8:30 – 8:45 AM **WELCOME, WORKSHOP OVERVIEW**
◆ **Paul Susca, Supervisor, Planning, Protection and Assistance; Drinking Water and Groundwater Bureau, NH DES**
- 8:45 – 8:55 AM **ANNUAL DRINKING WATER SOURCE PROTECTION AWARD**
◆ **Michael Walls, NH DES Assistant Commissioner**
- 8:55 – 9:15 AM **PERSPECTIVES ON GROUND WATER ISSUES NATIONWIDE**
◆ **Andrew Stone, Executive Director, American Ground Water Trust**
When and how strongly will nationwide “winds of change” blow in New Hampshire? What is happening regarding regulatory responses to emerging contaminants? How are stormwater infiltration, indirect potable reuse and aquifer recharge issues being handled? What is the status of changing views on well construction codes, etc.?
- 9:15 – 10:00 AM **FOREST CONSERVATION AND WATER SUPPLY PROTECTION AT REGIONAL, WATERSHED, AND PARCEL SCALES**
◆ **Paul K. Barten, Ph.D., Professor of Forest Resources, University of Massachusetts Amherst**
Forests are solar-powered living filters that protect aquatic ecosystems, water supplies, and public health. This presentation describes an approach used to prioritize watersheds based on their value as a source of drinking water and risk of further loss of critical forest land in a 20 state area.
- 10:00- 10:45 AM **IDENTIFYING ECO-SERVICES THAT PROVIDE CLEAN DRINKING WATER**
◆ **Todd Gartner, Senior Associate, Conservation Incentives & Markets, World Resources Institute**
Overview of an “eco-service” model creating economic incentives for water resources protection in the Northern Forests Watershed pilot project in the Crooked River watershed.
- 10:45 - 11:15 AM **BREAK / REFRESHMENTS**
- 11:15 – 12:00 **LINKING THE ECONOMIC BENEFITS OF LID AND COMMUNITY DECISIONS**
◆ **Robert M. Roseen, Ph.D., Director, UNH Stormwater Center, Environmental Research Group**
Summary of low impact development (LID) and green infrastructure case studies involving commercial development and municipal infrastructure projects that result in substantial long-term economic benefits.
- 12:00 - 1:00 pm **LUNCH**

1:00 - 3:30 PM Afternoon Sessions – Break-out – 4 Concurrent Tracks

Surface Water	Groundwater	Community-Based Source Water Protection	Best Management Practices
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1:00 – 1:45 PM

The Salmon Falls Watershed Collaborative: Working Across Borders for Watershed Protection and Restoration	Human-Induced Threats to Surface and Groundwater Supplies in NH: A Focus on Nitrogen and Sodium Chloride	New Opportunities for Conserving Land to Protect Public Drinking Water Supplies	Managing Seasonal Changes in Water Demand: Tools, Practices and Policies
State & local collaborative effort to find the right ingredients for success for this partnership that include an integration of science, practical experience, local knowledge and methods for building capacity to accomplish water quality goals	This session will present the results of 10 years of field data documenting a strong increase in both nitrogen and chloride concentrations in groundwater associated with increased population density, impervious cover levels, septic systems and fertilizer use.	Grants covered include a DES grant for the Lake Massabesic watershed and I-93 corridor communities of Salem, Windham, Derry, Londonderry and Manchester and grants from the NRCS Wetlands Reserve, Farm and Ranch Lands, and Grasslands Reserve Programs.	This session will focus on recent DES work to better understand how temperature and dry conditions affect water demand and will review local practices and policies to better evaluate and manage seasonal water demand.
◆ Christine B. Feurt, PhD, Dir. of Center for Sustainable Communities, Univ. of New England	◆ Michelle Daley, Research Scientist, Assistant Director, New Hampshire Water Resources Research Center, UNH	◆ Holly Green, Water Supply Land Grant Program Manager, NH DES and Brook Smart, Resource Conservationist, USDA Natural Resources Conservation Service	◆ Derek Bennett, Water Conservation Program Manager, NH DES

1:45 - 2:30 PM

Youth Conservation Corps (YCC) Projects to Minimize Non-Point Pollution in the Salmon Falls Watershed	Accessing and Using the New Hampshire Water Demand Database	Getting REAL about Protecting New Hampshire’s Largest Stratified-Drift Aquifer	From Well Construction to Decommissioning: Practices That Keep Drinking Water Clean & Safe
Overview of BMP landscaping projects completed by the YCC that have stabilized shoreline areas that would have otherwise released 120 tons of sediment and 100 lbs of phosphorus to surface water each year.	The USGS NH water demand database estimates water withdrawal and return flow by census block for 2005 and 2020 for all of New Hampshire. This session will provide an overview of how to use the data and online tools.	This session will cover effective techniques in local organizing, public outreach, education, and collaboration resulting in six towns placing similar aquifer protection ordinances on the ballot in 2011 to afford the same level of protection across town boundaries.	Careful planning and adherence to Water Well Board rules is important when locating, constructing and decommissioning wells. This session will summarize practices to prevent contamination in water supply wells.
◆ Linda Schier, Executive Director and Dustin Johnson, Program Manager and YCC Director, Acton-Wakefield Watershed Alliance	◆ Marilee Horn, Water Use Specialist, USGS; Laura Hayes, GIS Specialist, USGS	◆ Blair Folts, Director, GMCG; Tara Schroeder, GMCG; Eric Senecal, Lakes Regional Planning Commission; Jay Buckley, Town of Madison	◆ Rick Schofield, Water Well Board Program Manager, NH DES

2:30 - 2:45 PM BREAK

2:45 – 3:30 PM

Water Quality Protections for Laconia’s Drinking Water Source	Tomorrow’s Drinking Water: Identifying and Preserving Valuable Groundwater Areas in Your Community	A Regional Source Water Planning Initiative in the Metropolitan Manchester Region	Best Management Practices for Groundwater Protection: Fundamentals for Inspectors
Laconia draws its drinking water from Lake Winnepesaukee (Paugus Bay). This session will focus on recent steps the city has taken to better protect its drinking water through both policy changes and infrastructure improvements.	This session will focus on state and municipal-level findings concerning the remaining land areas favorable for development of new high-volume wells for municipal use. A new online tool and “how to” protection options will be discussed.	Presentation will focus on lessons learned, obstacles and success stories to implementing a regional initiative to develop source protection plans and ordinances among municipalities in the metropolitan Manchester region.	Preventing contamination by properly managing harmful substances is a significant component of local protection. This session will provide basic training for local BMP inspectors or those interested in establishing a local program.
◆ Shanna B. Saunders Planning Director, City of Laconia	◆ Dan Sundquist, Dir. of Land Conservation Planning, Society for the Protection of New Hampshire’s Forests	◆ Jack Munn, Chief Planner, Southern New Hampshire Planning Commission	◆ Pierce Rigrod, Diana Morgan, BMP Program, NH DES

3:30 - 4:00 PM EVALUATIONS & NETWORKING

