



N.H. Department of Environmental Services Drinking Water Source Protection Conference

Wednesday, May 1, 2013 (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



5.0 Technical Credit Hours for NH Water Works Operators

AGENDA

- 8:30 – 8:45 AM **WELCOME, CONFERENCE 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 AWARDS**
◆ Thomas Burack, Commissioner, NH DES
- 8:55 – 9:15 AM **NEW HAMPSHIRE LIVES ON WATER – FINDINGS AND RECOMMENDATIONS FROM THE WATER SUSTAINABILITY COMMISSION**
◆ John Gilbert, Synchrony Advisors and Chair of the Governor's Water Sustainability Commission. This session will review the key findings from the work completed over the last two years by the Water Sustainability Commission established by Governor Lynch
- 9:15 – 10:00 AM **ROBUST DRINKING WATER SOURCES: MANAGING THE RISKS OF CLIMATE CHANGE**
◆ Dr. Casey Brown, Assistant Professor in the Department of Civil and Environmental Engineering at the University of Massachusetts, Amherst. There is broad concern that climate change poses unprecedented risks to water supply systems and that water utilities may be unprepared. This presentation will review the state of the science of climate change and the risks to the Northeast water supply community, including trends in observations and climate model projections and methods for managing the water supply risks associated with climate uncertainty.
- 10:00 - 10:30 AM **BREAK / REFRESHMENTS**
- 10:30 - 11:15 AM **THE STATE OF LAND CONSERVATION IN NEW HAMPSHIRE**
◆ Chris Wells, Senior Director for Strategic Projects & Policy, Society for the Protection of New Hampshire Forests. The past decade has seen tremendous change in the dynamics of land conservation in N.H. – from a growth and development boom to a historic bust, from a wave of state and local investment in conservation to lean or non-existent public budgets. Land conservationists have made great strides and are protecting more of the “right” land through better conservation planning. This session will look at the status of conservation in N.H. in 2013 and what remains to be done in the next decade, especially in the state's most populous communities.
- 11:15 – 12:00 PM **PUBLIC PERCEPTIONS AND MISPERCEPTIONS OF SHALE GAS DEVELOPMENT AND AQUIFERS**
◆ Garret Graaskamp, PG, Hydrogeologist, American Ground Water Trust. This presentation will address the conflict between society's demand for low cost energy and clean drinking water resources in the context of shale gas extraction and hydraulic fracturing.

12:00 - 1:00 PM **LUNCH**

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

Surface Water	Groundwater	Community-Based Source Water Protection	Best Management Practices
1:00 – 1:45 PM			
<p>Salmon Falls Watershed Collaborative: Barriers and Bridges to Watershed Scale Source Water Protection</p> <p>Winner of a 2012 U.S. Water Prize, the Collaborative is an action oriented partnership with an action plan that will coordinate protections to preserve the future use of the Salmon Falls River as a source of drinking water. This talk will highlight the recent work involving green infrastructure, water quality monitoring, PCS management and stakeholder engagement.</p>	<p>Arsenic in New Hampshire’s Well Water: A New Model for Planning and Outreach</p> <p>Arsenic in private well water is a leading public health concern and a new model predicts widespread low level concentrations below the 10 (ug/L) drinking water standard. This session will review the tool and its use in public outreach to highlight the need for well owners to test and treat their well water. The model was developed by USGS in collaboration with the NH Dept of Health and Human Services.</p>	<p>Health Regulations and Septic System Improvements on Lake Waukegan - Meredith’s primary source of drinking water</p> <p>Malfunctioning septic systems are a leading source of phosphorous and pathogens in surface water. This session will describe an innovative collaborative effort to identify high-risk septic systems on the lake, and provide financial assistance to improve those systems to come into compliance with Meredith’s new septic system regulation. Key provisions of the regulation and improvement program will be discussed.</p>	<p>Agricultural Efforts to Protect Water Quality</p> <p>Farming is an important part of NH’s economy. NH’s pesticide regulations and on-farm BMPs help minimize environmental and public health issues. This session will review pesticide regulations and standard agricultural BMPs that permit economical agricultural production while achieving the least possible adverse impact on the environment, including drinking water resources.</p>
<p>☐ Christine Feurt, PhD, Coastal Training Program Coordinator, Wells National Estuarine Research Reserve</p>	<p>☐ Joseph Ayotte, Geologist, USGS; Matt Cahillane, Program Manager, N.H. Department of Health and Human Services</p>	<p>☐ John Edgar, AICP, Community Development Director, Meredith; Pat Tarpey, Executive Director Lake Winnepesaukee Watershed Association (LWWA)</p>	<p>☐ Jennifer Z. Gornert, Director, Div. of Regulatory Services; David J. Rousseau, Director, Div. of Pesticide Control, N.H. Department of Agriculture, Markets and Food</p>
1:45 - 2:30 PM			
<p>Maintaining a Municipal Watershed for Multiple Uses: A Case Study of Concord’s Penacook Lake Surface Water Supply</p> <p>Penacook Lake is a unique lake that serves as the City of Concord’s primary source of drinking water. With new residential development, nearby trails and nesting loons on the lake, there are a number of management concerns. This presentation will focus on the opportunities and challenges associated with managing a water supply’s watershed for multiple-use priorities.</p>	<p>Review of New Hampshire’s Groundwater Protection Act and The Enforcement Process</p> <p>New Hampshire RSA 485-C, the Groundwater Protection Act, provides NH DES and municipalities (health agents and other municipal officials) powers to preserve the quality and availability of groundwater. This session will review state and local government powers related to the Act and the enforcement process as highlighted through several high-profile cases.</p>	<p>Granite State Future (GSF): A Panel Discussion Regarding Regional Planning Efforts and Source Water Protection</p> <p>Join expert panelists to discuss Granite State Future Project, a collaborative effort of N.H.’s nine regional planning commissions and their partners to develop regional visions, goals, and strategies and a statewide snapshot of planning priorities. This session will explore how the GSF project will pose the question, “How should we plan for the future?” Come prepared to listen and discuss the GSF project and how it applies to local drinking water resources.</p>	<p>Low Impact Development (LID) Planning and Implementation in the Berry Brook Watershed (Dover)</p> <p>In N.H., stormwater from developed or developing areas remains a leading cause of water quality degradation. To minimize stormwater impacts, LID practices that infiltrate (recharge) clean stormwater are being installed in the Berry Brook Watershed by the UNH Stormwater Center. This session will summarize the LID approach in Berry Brook and what it means for protecting surface water in other developing areas.</p>
<p>☐ David R. Brennan, Water Supply Superintendent, City of Concord</p>	<p>☐ Allen Brooks, Assistant Attorney General, N.H. Department of Justice; Diana Morgan, NH DES</p>	<p>☐ Panel Discussion Facilitated by Carolyn Russell, NH DES</p>	<p>☐ Jamie Houle, Program Manager, UNH Stormwater Center</p>
2:30 - 2:45 PM BREAK			
2:45 – 3:30 PM			
<p>The New England Watershed Managers (NEWMAN) Project: A Regional Effort to Protect New England’s Surface Water Supplies</p> <p>This effort between EPA and a group of public water supply managers involves creating a forum and database documenting watershed management experiences in four key areas: forestry, land management, land acquisition and recreational access. This session will talk about how this resource is being used to make better management decisions.</p>	<p>Road Salt Impacts at a Municipal Well field in Wilmington, MA</p> <p>EPA has found that chloride concentrations in raw groundwater at the Wilmington municipal wells are 40 times higher than the levels found before 1961. This presentation will discuss the methods to estimate salt application used for winter road maintenance, travel times for the salt to reach the wells and mitigation options to reduce salt impacts.</p>	<p>Granite State Future: A Panel Discussion Regarding Regional Planning Efforts and Source Water Protection (CONTINUED)</p> <p>** Continuation of the 1:45 pm session with facilitated panel discussion and audience participation.</p>	<p>1) Community Water System’s Water Conservation Outreach & Education Program Successes 2) Introduction to DES’s We’re for Water Outreach Campaign</p> <p>Water conservation is key to preserving water resources and reducing treatment costs. The Acton Water District (AWD) (Acton, MA) implemented an outreach and education program to reduce water usage during summer peak demand. Learn about this program and DES’s new campaign focused on changing public perceptions of water use and efficiency.</p>
<p>☐ John O’Neil, Watershed Forester, Manchester Water Works; Kira Jacobs, US EPA Region I</p>	<p>☐ Doug Heath, Hydrologist, US EPA Region I – New England</p>	<p>☐ Panel Discussion Facilitated by Carolyn Russell, NH DES</p>	<p>☐ Matt Mostoller, Acton Water Environmental Manager; Stacey Herbold, NH DES</p>
3:30 - 4:00 PM EVALUATIONS & NETWORKING			

