



Roadway Deicing – Understanding the Impacts and Options for Water Systems

MWWA Course Seminar (Course ID # MWWA 19-007) MA Wastewater BC-2019-3428

In 1870 MIT graduate Ellen Swallow Richards began a comprehensive study of chloride concentrations in surface water bodies across Massachusetts. Her early work in evaluating water quality proved valuable as the advent of the highway systems brought about the use of road surface deicing using salt. In the period between 1940 and 2014 it is estimated that road salt usage across the country has quadrupled. Roads have been made safer, but what has been the cost on water quality?

This half day session will be held at the recently constructed Fisheries and Wildlife Headquarters in Westborough. The Cronin Building is a state-of-the-art LEED Platinum Certified zero net energy facility. The course will include several case studies of Massachusetts communities on how road salt has impacted source water quality and the challenges it presents when striving for compliance with drinking water standards. There will also be a discussion on past practices of roadway deicing and what new technologies and strategies can be used to achieve a balance between safe roads and protecting water supplies. This course is approved for **3.0 TCH** (Training Contact Hours).

Learning Objectives:

- Learn about the history of roadway deicing.
- Understand the impact on water quality and water treatment
- Explore the emerging technologies and practices available to keep roadways safe and minimize adverse impacts on public water supplies

LOCATION: Mass Fisheries & Wildlife, Cronin Building (Room 108)
1 Rabbit Hill Rd., Westborough, MA 01581

DATE: **Thursday, October 3, 2019**

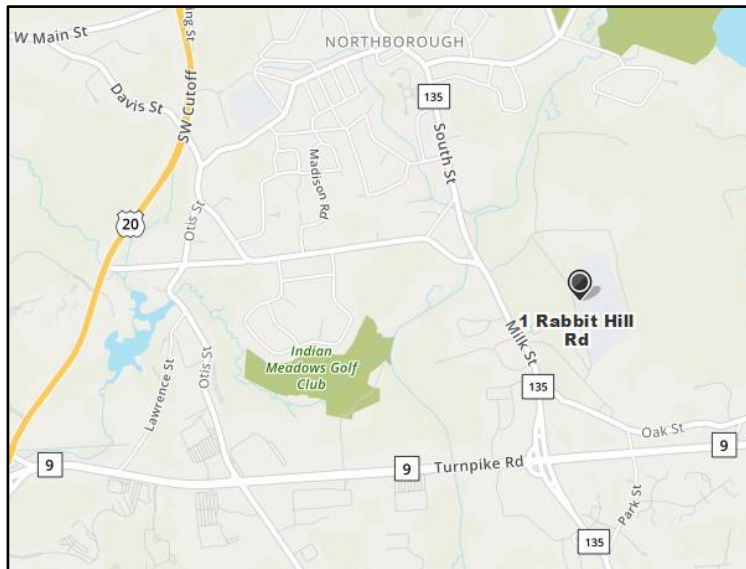
TIME: **8:00 a.m. – 12:00 p.m.**

AGENDA	8:00 – 8:15 AM	Registration & Introductions
	8:15 – 8:30 AM	The History of Roadway Deicing (Joe Duggan, Wellesley Water & Sewer, retired Superintendent)
	8:30 – 9:15 AM	The Impacts of Chloride on Water Quality & Treatment (Lenny MacKoul, P.E. Aquagenics Inc.)
	9:15 – 10:00 AM	Cambridge Reservoir – Case Study (Dave Kaplan, Watershed Manager, City of Cambridge)
	10:00 – 10:15 AM	Break
	10:15 – 11:45 AM	Deicing Options Available and Community Case Studies Michael Smith, Technical Specialist, Baystate Roads Marc Valenti, Manager of Operations. Lexington DPW Richard Barret, Superintendent Westford DPW
	11:45 AM–12:00 PM	Conclusions, Assessment Questions & Course Evaluations

ATTENDANCE & TCH POLICY: Participants must attend 90% of the program and complete a session evaluation form to be eligible for TCHs. TCHs will not be issued until full payment is received.

**PLEASE COMPLETE AND MAIL/FAX THE REGISTRATION FORM
ON THE BACK OF THIS NOTICE OR REGISTER ON-LINE AT
WWW.MASSWATERWORKS.ORG**

DIRECTIONS TO MASS FISHERIES AND WILDLIFE HEADQUARTERS
1 Rabbit Hill Rd., Westborough, MA 01581



Massachusetts Water Works Association

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Thursday, October 3, 2019 – Westborough, MA

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REGISTRATION FORM

Name: _____

Company: _____

Business Address: _____

Phone No.: _____ Email: _____

Fax No.: _____ MWWA Membership Number: _____

Pre-registration is required. Register on-line at www.masswaterworks.org.

You will receive an invoice via email, then mail check payable to **Mass Water Works Association** by **September 26, 2019**. Or fill out form and fax to: (978) 263-1376 or mail.

Mail to: MWWA
P.O. Box 1064
Acton, MA 01720 (*Note: *TCHs will not be issued until full payment is received*)

Payment: ☐ \$75.00 (MWWA member) ☐ \$135.00 (Non-member)

☐ If you need an invoice sent somewhere else besides email provided above, enter instructions here: _____

☐ Check here if you have a disability that requires accommodations to participate.
MWWA will contact you.

☐ I am not currently a member of MWWA and would like to receive membership information.