

JOURNAL OF THE  
**NEW HAMPSHIRE  
WATER WORKS  
ASSOCIATION**



Operator Training, May 30, 2018, Concord , NH



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# **Journal of the New Hampshire Water Works Association**

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by Bruce W. Lewis, P.E., Lewis Engineering, PLLC, Litchfield, NH

Front Cover Photo: Attendees of the May 30, 2018 Operator Training  
received a demonstration of a valve maintenance trailer courtesy of  
Pennichuck Water Works.

**Charity Ross, Editor**

**New Hampshire Water Works Association  
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November 1, 2017—October 31, 2018**

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**NEW HAMPSHIRE WATER WORKS ASSOCIATION**

18 N. Main St., Suite 308, Concord, NH 03301

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Edwin Betz, Littleton	1998-1999
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David Brennan, Sunapee	2003-2004
Brian Wilson, Ti-SALES, Inc.	2004-2005
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Lee Minnich, Goffstown	2006-2007
Brian Goetz, Portsmouth	2007-2008
David Paris, Manchester	2008-2009
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Marco Philippon, Concord	2012-2013
William Boulanger, Dover	2013-2014
Guy Chabot, Manchester	2014-2015
Francis X. Lyons, FX Lyons, Inc.	2015-2016
Ian Rohrbacher, Rochester Public Works Department	2016-2017



# Water Works Superintendents and Other Officials

## STATE OF NEW HAMPSHIRE

<b>Town</b>	<b>System</b>	<b>Name</b>
Alton	Alton Water Works	Courtney Mitchell
Andover	Andover Water Works	Todd Cartier
Antrim	Antrim Water Works	Matthew Miller
Ashland	Ashland Water Works	Russell Cross
Bartlett	Bartlett Village Precinct	Scott Hayes
Bartlett	Lower Bartlett Precinct	Gary Chandler
Bath	Bath Village Water Works	Spencer Richardson
Belmont	Belmont Water Works	Craig Clairmont
Bennington	Bennington Water Department	Matthew Miller
Berlin	Berlin Water Works	Craig Carrigan
Bethlehem	Bethlehem Village District	Terence Welch
Boscawen	Penacook-Boscawen Water	Bernie Rousseau
Bow	Bow Municipal Water System	Eric Burkett
Brentwood	Rockingham County Home	Tom Schulte
Bristol	Bristol Water Works	Jeffrey Chartier
Campton	Campton Village Precinct	Peter Vaillancourt
Campton	Waterville Estates Village District	Corey Smith
Canaan	Canaan Water Department	John Coffey
Carroll	Carroll Water Works	Scott Sonia
Carroll	Rosebrook Water System	Kenneth Goode
Charlestown	Charlestown Water Works	Dave Duquette
Claremont	Claremont Water Works	Robert Lauricella
Colebrook	Colebrook Water Works	Brian Sullivan
Concord	Concord Water Treatment Plant	Marco Philippon
Contoocook	Contoocook Water Precinct	Charles Damour
Conway	Conway Village Fire Precinct	Gregg Quint
Conway	N. Conway Water District	Jason Gagnon
Derry	Derry Water Works	Thomas Carrier
Dover	Dover Water Works	John Storer
Durham	UNH/Durham Water Works	Wesley East
Enfield	Enfield Village Fire Precinct	James Taylor
Epping	Epping Water Works	Daniel Mattus
Epsom	Epsom Village District	Joseph Damour

<b>Town</b>	<b>System</b>	<b>Name</b>
Errol	Errol Water Works	Pierre Rousseau
Exeter	Exeter Water Works	Paul Roy
Farmington	Farmington Water Department	Charles Tiffany
Fitzwilliam	Fitzwilliam Village Water District	Joseph Damour
Francestown	Francestown Village Water	Dennis Orsi
Franconia	Franconia Water Works	Justin Benes
Franklin	Franklin Water Works	Brian Sullivan
Freedom	Freedom Water Precinct	Francis Lyons
Georges Mills	Sunapee Water Works	Dave Bailey
Gilford	Dockham Shores Estates	Justin Benes
Gilford	Gilford Village Water District	Norm Harris III
Gilford	Gunstock Acres	Alex Crawshaw
Goffstown	Goffstown Village Fire Precinct	Lee Minnich
Goffstown	Grasmere Village Water Precinct	John Foss
Gorham	Gorham Water Works	Jeff Tennis
Grantham	Village District of Eastman	Amy Lewis
Greenville	Greenville Water Works	Dave Brennan
Hampton	Aquarion Water Company	Carl McMorran
Hancock	Hancock Water Works	Matthew Miller
Hanover	Hanover Water Works	Todd Cartier
Haverhill	Precinct of Haverhill Corner	Daniel Boutin
Haverhill	Woodsville Water & Light Precinct	Robert Fagnant
Haverhill	N. Haverhill Water & Light	Robert Fagnant
Henniker	Cogswell Springs Water Works	Norman Bumford
Hill	Hill Water Works	John Benham
Hillsborough	Hillsborough Water Works	Peter Mellen
Hillsborough	Emerald Lake Village District	Joseph Damour
Hinsdale	Hinsdale Water Works	Dennis Nadeau
Hooksett	Hooksett Village Water Precinct	Michael Heidorn
Hooksett	Central Hooksett Water Precinct	Jay Smith
Hopkinton	Hopkinton Village Precinct	Joseph Damour
Hudson	Hudson Water Department	Chris Countie
Jackson	Jackson Water Works Company	Scott Hayes
Jaffrey	Jaffrey Water Works	Tom Lambert
Keene	Keene Water Works	Benjamin Crowder
Laconia	Laconia Water Works	Seth Nuttelman
Lancaster	Lancaster Water Works	Timmy Bilodeau
Lebanon	Lebanon Water Works	Scott Poirier

<b>Town</b>	<b>System</b>	<b>Name</b>
Lincoln	Lincoln Water Works	David Beaudin
Lisbon	Lisbon Village District	Robert Lauricella
Littleton	Littleton Water & Light	Tom Considine
Madison	Village District of Eidelweiss	Ronald Sandstrom
Manchester	Manchester Water Works	Phil Croasdale
Marlboro	Marlboro Water Works	Anthony Cavaliere
Meredith	Meredith Water Department	Courtney Mitchell
Meriden	Meriden Village Water District	Bill Taylor
Merrimack	Merrimack Village District	Ronald Miner, Jr.
Milford	Milford Water Utilities	Kevin Stetson
Milton	Milton Water District	Mark Badger
Monroe	Monroe Water Department	Robert Fagnant
Nashua	Pennichuck Water Works	Chris Countie
New Castle	New Castle Public Works	Steve Tabbutt
Newfields	Newfields Village Water & Sewer	Peter Hellfach
New Hampton	New Hampton Village Precinct	Joseph Powers
New London	New London/Springfield Water	Rob Thorp Jr.
Newmarket	Newmarket Water Works	Sean Grieg
Newport	Newport Water Department	Josh Worthen
Northumberland	Groveton Water System	Reginald Charron
Orford	Orford Village District	Norm Harris III
Ossipee	Ossipee Water Department	Wayne Eldridge
Pembroke	Pembroke Water Works	Matt Gagne
Peterborough	Peterborough Water Works	Rodney Bartlett
Pittsburg	Pittsburg Water District	Richard Sargent
Pittsfield	Pittsfield Aqueduct Company	Chris Countie
Plainfield	Plainfield Water District	Adam Lewis
Plymouth	Plymouth Village Water Works	John Crowley
Portsmouth	Portsmouth Water Works	Brian Goetz
Raymond	Raymond Water Works	Scott Keddy
Rochester	Rochester Water Works	Ian Rohrbacher
Rollinsford	Rollinsford Water District	Scott McGlynn
Rye	Rye Water District	Kenneth Aspen
Salem	Salem Water Works	Frank Giordano
Seabrook	Seabrook Water Works	Curtis Slayton
Somersworth	Somersworth Water Works	Gregory Kirchofer
Stewartstown	W. Stewartstown Water Works	Wilman Allen
Stratford	N. Stratford Water	Carleton Harris

<b>Town</b>	<b>System</b>	<b>Name</b>
Sunapee	Sunapee Water Works	Dave Bailey
Swanzey	N. Swanzey Water & Fire Precinct	Sly Karasinski
Tamworth	Tamworth Water Works	Justin Benes
Tilton	Tilton/Northfield Water District	John Chase
Troy	Troy Water Works	Justin Frazier
Wakefield	Sanbornville Water Department	John Dawson III
Walpole	Walpole Water Department	Mark Houghton
Walpole	N. Walpole Village District	Robert McGuirk
Warner	Warner Village Fire District	Joseph Damour
Waterville Valley	Waterville Valley Water	Robert Burhoe, Jr.
Whitefield	Whitefield Water	Francis Lyons
Wilton	Wilton Water Works	Michael Bergeron
Winchester	Winchester Water Works	Richard Meleski
Wolfeboro	Wolfeboro Water & Sewer	Janine Gillum
Woodstock	Pennichuck Water Service	Bernie Rousseau

**Guy Beloin, CPA**  
**Litchfield, New Hampshire**

New Hampshire Water Works Association, Inc.  
18 N. Main St., Suite 308  
Concord, NH 03301

To the Board of Directors:

This is to certify that I have compiled the statement of activities and cash and cash equivalents of the New Hampshire Water Works Association, Inc. for the year ended October 31, 2017.

I have reconciled the account balances to those presented in the cash disbursement and receipts journals.

I found the checkbook balances of the general and legislative accounts to agree with the bank statements as of October 31, 2017 and the balance shown in the savings accounts to agree with the certificate of deposits on file.



Guy Beloin, CPA  
February 22, 2018

NEW HAMPSHIRE WATER WORKS ASSOCIATION, INC.  
STATEMENT OF ACTIVITIES  
FOR THE YEAR ENDED OCTOBER 31, 2017

	General account	Legislative account	Combined
<b>Revenue and support:</b>			
NHWWA membership fees	\$ 17,432	\$ 17,715	\$ 35,147
State and local grants	35,000		35,000
Trade fair and exposition	49,880		49,880
Operator training seminar	30,672		30,672
Basic operator course	11,000		11,000
Technical seminars	10,665		10,665
Construction Day Field Trip/ NHDWW	5,353		5,353
Publications - NHWWA journal and newsletters	14,556		14,556
Interest and investment income	260	19	278
Total revenue and support	174,817	17,733	192,550
<b>Expenses:</b>			
<b>Program services:</b>			
Trainings and Seminars	24,684		24,684
Events and Activities	19,922		19,922
Publications	6,666		6,666
Drinking Water Festival	3,509		3,509
<b>General:</b>			
Salaries and wages and benefits	75,319	5,965	81,284
Payroll taxes	4,957	456	5,413
Rent	5,400		5,400
Office supplies, expense	7,084	0	7,084
Insurance	1,321		1,321
Professional services	575		575
Travel	2,148		2,148
Taxes, filing fees	843	50	893
Miscellaneous	1,297	280	1,577
Total program services and support	153,725	6,751	160,476
<b>Net revenue and support</b>	<b>\$ 21,092</b>	<b>\$ 10,983</b>	<b>\$ 32,074</b>
 <b>Statement of cash balances:</b>			
Cash and cash equivalents, beginning, November 1, 2016			\$ 59,018
Add: net revenue and support			32,074
Cash and cash equivalents, ending, October 31, 2017			<b>\$ 91,092</b>

# New Water Works Operators in 2017

Currently there are just under 1,000 operators of public water system treatment plants and distribution systems licensed by the State of New Hampshire. New Hampshire operators are required to renew their licenses every two years. The next renewal year is 2019. License renewal applications need to be submitted to NH Department of Environmental Services (NHDES) by December 31, 2019. Acceptable Criteria for Drinking Water Operator Training Contact Hours can be found on the NHDES website, [www.des.nh.gov](http://www.des.nh.gov), on the Water Works Operator Certification Program page, under the category for Training.

Operators renew their certification by obtaining continuing education units (CEU's). New Hampshire Water Works Association (NHWWA) provides its members, and all who are interested, an opportunity to obtain CEU's by attending training sessions throughout the year. CEU's can be obtained by attending NHWWA technical meetings, management seminars, Construction Day, the Drinking Water Exposition & Trade Show, operator trainings, and other special events. These programs offer a variety of technical, operational, managerial and safety training.

The following individuals are those who were newly certified by examination or reciprocity in 2017 and those who advanced in their Treatment and/or Distribution grade.

## Combined Distribution and Treatment C1A

Kathleen D. Alcott	Dennis B. Galimberti	Shane T. Nicols
Brad J. Boutin	Nathaniel W. Guerette	Jason G. North
Robert E. Bowman	Cheryl E. Hall	Brian D. Nothnagel
James E. Brigham	Philip A. Heath	Jared F. Pittman
John L. Cuddihee	James M. Hill	Brendon M. O'Keefe
Gregory A. Cummings	Brian P. Hoffman	Ricardo J. Rivera
Steven M. DeAngelis	Jeffrey L. Hoffman	Arthur H. Susmann
Richard Dearborn	Jacqueline F. Howarth	Shanna C. Tiede
Jaimie L. DeClercq	Kelley L. Huggins	Lucas R. Turcotte
Laura M. DeFazio	Scott E. Huggins	Edward G. Vergato
Todd C. Ferris	Nicholas W. Huntoon	
Noreen C. Fratus	Ian S. Mackenzie	

## **Distribution Grade I**

Brian D. Barry	Norris B. Harriman, Jr.	Richard P. Riddle
Greg A. Bilodeau	Benjamin T. Jankowski	Raymond E. Sandifer
Darren Candello	Jamie C. Jarest	Shane M. Stone
Benjamin L. Clarke	Michael J. Judkins	David F. Webber
Anthony J. Cavaliere	Philip A. LaFlamme	Sarah Werner
Laura M. DeFazio	Dylan T. Murphy	
Thomas F. Donahue	Eric J. Oulette	
Craig W. Gilcris	James E. Pouliot	

## **Treatment Grade I**

Brian D. Barry	Laura M. DeFazio	Ethan G. Marshall
Greg A. Bilodeau	Craig W. Gilcris	Dylan T. Murphy
Victoria I. Bullard	Norris B. Harriman, Jr.	James E. Pouliot
Darren M. Candello	Gary A. Hebert	Beau P. Schofield
Anthony J. Cavaliere	Philip A. LaFlamme	David F. Webber
Justin G. Daniels	Christopher M. Lewis	

## **Distribution Grade II**

Gary A. Hebert  
Beau P. Schofield

## **Treatment Grade II**

Patricia L. Chesebrough  
David M. Halligan  
John W. Howard  
Nathan H. Little  
Nicholas J. Tumolo



# **Overview of Steps within New Hampshire that are Required in the Development and Approval of a Small Public Water Supply Well**

*by Bruce W. Lewis, P.E.*

*Lewis Engineering, PLLC – Litchfield, NH*

## **Introduction**

This paper is presented for review by water system operators and superintendents as an overview of the processes associated with developing a new small public water system (PWS) well source in the State of New Hampshire. From time to time certified operators, and perhaps town water personnel will be asked for an opinion on the development of a new water source associated with small public water supply sources. These are well water supplies less than 40 gallons per minute (GPM) which reflects a maximum permitted production volume (PPV) up to 57,600 gallons per day (GPD). Many times, these wells are associated with small PWS stand-alone communities that fall outside the limits of the town's water system. These water supply wells are often part of new property that is being proposed, or developed, or a well may be required to replace and/or supplement an existing water supply.

The focus and intent of this paper is to assist water works personnel by providing a succinct overview of the approval process administered by the New Hampshire Department of Environmental Services' Drinking Water Groundwater Bureau (DWGB). A small water system's well water production sources usually consists of bedrock or sand and gravel wells. The referenced New Hampshire Administrative Rule section is **Env-Dw 305: "Small Production Wells for Small Community Water Systems"**.

The following summarizes the pertinent steps associated with this process:

- 1. Permitting Agencies / Regulators:** Coordination of this process is between the party desiring to have the small public water supply well, or wells, the DWGB, and the town where the water supply will be located. The DWGB is the State of New Hampshire's review and approval agency for small public systems and water supplies of this nature, and as a primacy state, follows the US Environmental Protection Agency (EPA) Safe Drinking Water Act (SDWA) regulations. The well water supply approval comes through the DWGB. In most cases, the balance of the engineering design approval for water treatment, water storage, pumping facilities, etc., as in the case of a new community water system, comes through the DWGB's engineering group. Approvals are by written correspondence between the DWGB and the owner. There are no official permit numbers assigned until the water system is ready to begin operation. The DWGB does assign internal tracking numbers for these projects. The final step, when the water supply has met all required regulations, DWGB assigns a seven-digit PWS number, also known as an EPA number, to the project. This is done when the new community water system is ready to supply drinking water to the public. The PWS number tracks the project from that time forward. All PWS's are monitored by the State and must be operated by a New Hampshire licensed certified water system operator. The certified operator is responsible for the day-to-day operation of the water system as well as meeting all reporting requirements.
- 2. Concept / Capacity Assurance Proposed Water System Report:** This is the first step in the process associated with a new PWS. This report addresses a number of water related issues and is sent to the DWGB's engineering group for their review, comments, and approval. This report must address a number of issues. A general description of the project, the proposed number of wells, projected water

supply requirements, and recognition of required Sanitary Protective Area (SPA) protective radii are discussed. This generally applies when there is no public water supply within a reasonable distance of the site.

Technical conceptual details are summarized about the anticipated design of the new water system including the water supply wells, water metering, water treatment, water storage, booster pumps, control panel and monitoring equipment, and in some cases, standby power. A summary of the well drilling and the proposed testing process, along with a summary of necessary reports are provided.

Managerial assurance details are provided for review. These include the requirement of a certified operator, ownership of the water system, and a summary of how the costs of owning and operating the water system will be covered.

Financial assurance requirements are explained as well as providing a preliminary business plan, with a budget that covers anticipated estimated operating expenses. A final business plan is required following a final system design with cost centers identified, and this budget is projected out for five-years.

- 3. Preliminary Well Siting Report:** This is the first step in the process that is directed to the DWGB for their review and comments, once the preliminary concept has been reviewed and approved by the DWGB's engineering group. In summary, the proposed small groundwater withdrawal well(s) need to be located where a properly sized SPA radius is available and will be under the control of the system that utilizes the water supply. Wells are approved on the basis of a Permitted Production Volume (PPV). This is the maximum day withdrawal allowed for the particular water supply. Water supply withdrawal for all new community water system wells must be reported to the

DWGB under their Groundwater Withdrawal Rules. The radius is determined by the quantity of water that is required. The radius normally falls within a 150' radius for up to 14,400 gpd PPV, a 175' radius for up to 28,800 gpd PPV, and a 200' radius up to 57,600 gpd PPV. Where more than one well will be required, the well radii may overlap. This radius area has its use restricted to water supply items only, and must be kept free of significant disturbance, i.e. being kept in its natural state as much as possible. A number of specific restrictions are applied to the area within the radius including; no use of fertilizers, herbicides, pesticides, insecticides, and no retention or drainage ponds. Radii may overlap wetland areas, which provide protection by default, due to local restrictions.

There are a number of specific parts and reports associated with the preliminary report. Detailed information about the project, applicant, well site owner, project consultant, report preparer, and pumping test contractor are required. The proposed PPV has to be calculated based on DWGB water use design criteria, and the applicant and report preparer must sign a certification statement. The preliminary report includes: specific information showing ownership of the property, a statement that a water conservation plan has been prepared and submitted to the DWGB (which is a separate reporting package and requirement), a detailed well siting area evaluation, preliminary water supply requirements, an evaluation of how the well will be protected including proximity to surface water and the 100-year flood level, a description of the SPA, description of the larger Well Head Protection Area (WHPA), and a proposed detailed plan for the DWGB's mandated 72-hour pumping test with proposed water quality monitoring. This reporting package will also include a number of detailed exhibits for the DWGB's review and comment. The DWGB approval letter for this report allows

the well drilling to proceed at the location identified in the report.

After the well(s) have been completed, drilled to New Hampshire Water Well Board standards by a well driller licensed in New Hampshire, the well(s) test is scheduled with the DWGB. During the formal pump testing, which is a minimum of 72 hours based on DWGB standards, other nearby neighborhood wells may be monitored as part of the test. Near the end of the test, a full set of SDWA water samples will be obtained and analyzed through a water laboratory certified in the State of New Hampshire.

- 4. Final Well Report:** In summary, the final well report analyzes all the accumulated testing data and presents the results to the DWGB for review, comments, and approval. The report calls out the proposed approval quantity and identifies any water treatment that may be required based on the results of the SDWA water quality results.

The report provides all current information for the project including the applicant, well site owner, the report preparer, and contact information for the New Hampshire licensed pump installer company who conducted the pumping test. The applicant and preparer both sign a certification statement and a copy of the preliminary report approval letter is also provided.

Source capacity requirements are summarized, and if the pumping test met the proposed minimum capacity criteria, additional detailed information is provided. This includes information about the as-built well details, details of what exists within 1,000 feet of the well in all directions, the radius associated with the SPA and land use within the SPA, and specific information about legal control of this area.

The report should also include the data accumulated before, during, and following (well recovery) the 72-hour test,

including the operation of other existing wells associated with the water system, plus monitoring of off-site wells, as previously approved by the DWGB. The rate of flow and discharge location have to be identified, as well as how water level measurement was obtained.

Test dates and water level drawdown during the test, and well level recovery following the test are summarized. A summary of water samples obtained, usually a full New Hampshire SDWA suite, and the New Hampshire certified water testing laboratory are identified. Any parameters exceeding primary or secondary drinking water standards are identified. If a bedrock well is located within 200' of a surface water, and a micro-particulate analysis (MPA) was collected, these results are also presented.

The wellhead protection area is re-identified, with an updated map showing any potential contaminations sources (PCS's), and conducting a windshield survey of this area, with the name of the person who conducted the survey and date. This survey must be re-conducted every three years by the New Hampshire certified operator, or consultant. This includes sending educational materials by US mail to all owners of the property, and must be distributed by a party responsible for the organization utilizing the well(s).

A number of detailed exhibits are required to be included with the application. If associated with a new water system where additional water related facilities will be constructed, a statement of the responsible party for the balance of engineering design items associated with the use of the well(s) is also needed. These design items, which will be the topic of a future paper, are submitted to the DWGB's engineering group along with a copy of the final approval to connect the well(s) being approved for use as potable water supply well(s) in New Hampshire.

As a new PWS project develops over time, careful tracking of actual water use through well water meters are required. This is part of New Hampshire's Water Conservation Program (WCP) for all PWS's. This mandated criterion allows the DWGB to monitor actual water use against the approved PPV of the approve well(s). In practice, this also allows a PWS to include an irrigation component within a system's water use budget.

**In conclusion**, the process for the siting, drilling, testing, and obtaining the necessary approval for new water supply sources in the State of New Hampshire proceeds over a number of months. Each step is carefully reviewed and monitored by the technical staff of the DWGB. This approval process is a cooperative effort between the consultant, a New Hampshire certified well driller and a New Hampshire certified well pump installer (often the same company qualifies), a New Hampshire certified water quality testing laboratory, and the DWGB. This cooperative effort helps to guarantee that the people who will be depending of the use of this water for their day-to-day potable water will be well served for many years.

Additional information may be found at [www.des.nh.gov](http://www.des.nh.gov), or by calling 603-271-2947.

# **Upcoming Events**

## **Construction Field Day**

**Wednesday, August 1, 2018**

**8:30 AM—3:00 PM**

**Concord Transportation Center**

Bus Station located at 30 Stickney Ave., Concord, NH

### **Stops include:**

Hooksett Village Water Precinct

Manchester Water Works' Tank Construction

Pennichuck's Water Main Crossing

Pennichuck Distribution Center

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## **NH Drinking Water Expo & Trade Show**

**Thursday, October 25, 2018**

**8:00 AM—4:00 PM**

**Grappone Conference Center, Concord, NH**

Please visit [www.nhwwa.org](http://www.nhwwa.org) for more details on upcoming events.



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NH Drinking Water Expo & Trade Show - October 25, 2018

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