

# TOWN OF NORTH HAMPTON WATER COMMISSION

PO BOX 710  
NORTH HAMPTON, NH 03862



Henry Fuller, Co-Chair  
Bob Landman, Co-Chair  
Tim Harned, Secretary  
Richard Bettcher  
Jim Maggiore, Select Board Ex-officio

North Hampton Water Commission Meeting  
February 28, 2017 - 7:00 p.m.  
Heritage Conference Room  
(Old) Town Office, 237 Atlantic Avenue

## ( APPROVED )

### Commissioners in attendance:

Richard Bettcher  
Henry Fuller, Co-Chair  
Tim Harned, Secretary  
Robert Landman, Co-Chair

### Guests:

Carl McMorran – Aquarion Water Co  
Harold Mailhot – Glendale Rd

### Agenda Item 1:

Mr. Fuller called the meeting to order at 7:06 PM.

The 18-Jan-2017 Water Commission Meeting minutes were approved 4-0

Mr. Landman motioned to approve the minutes and Mr. Bettcher seconded the motion

### Agenda Item 2:

Mr McMorran presented the material in the pages following the minutes.

### Agenda Item 3: Wiggins Way – There is no update

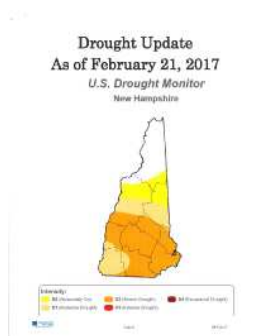
Agenda Item 4: Glendale and Alden Avenue water quality issues. Mr Mailhot from Glendale Ave discussed the water quality in the Glendale and Alden Ave area. Specifically his concerns were with respect to scale buildup with the plumbing and also significant reduction in water heater lifespans and the associated cost of frequent water heater replacement.

Below is a picture of buildup within typical plumbing. Part of the issue is believed to be due to water distribution network dead ending in that area. Mr McMorrان is to review the situation and respond to the Water Commission regarding a remedy for the situation.



Agenda Item 5: Coakley Landfill – There is no update

Mr. Fuller adjourned the meeting without objection at 8:07 pm.

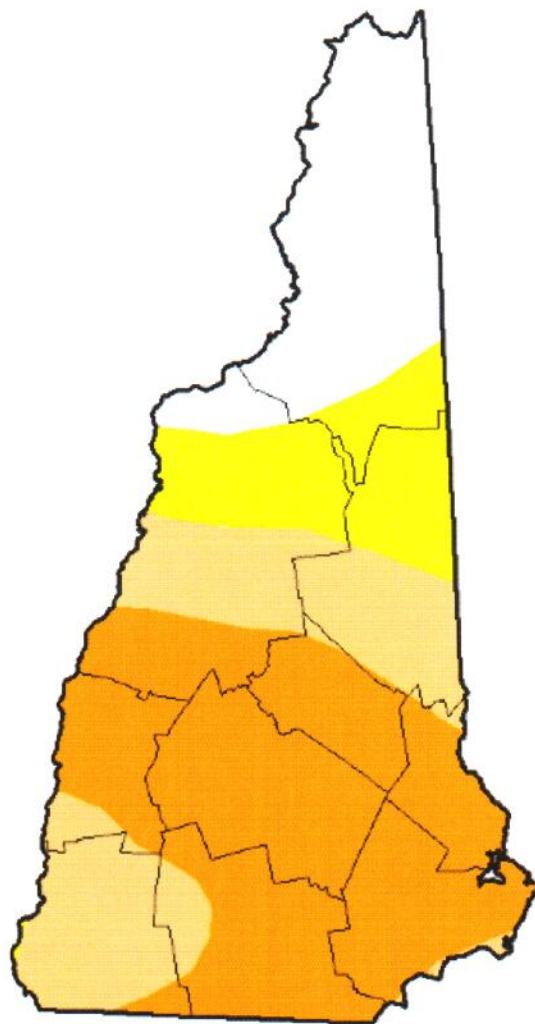


# Drought Update






## As of February 21, 2017

### *U.S. Drought Monitor*

#### New Hampshire



**Intensity:**

- |   |  |   |
|---|--|---|
|  D0 (Abnormally Dry)   |  D2 (Severe Drought)  |  D4 (Exceptional Drought) |
|  D1 (Moderate Drought) |  D3 (Extreme Drought) |   |



## NH Aquarion Rain Barrel Sale

Home

Rain Barrel

2017 Programs

CT Aquarion Water Co

NH Aquarion Water Co

Melrose, MA

Contact Us

### NH Aquarion Water Company Rain Barrel Program

The Aquarion Water Company is offering rain barrels for **\$75.**

Barrels will be available for pick up at the

#### **Aquarion Water Company**

7 Scott Road  
Hampton, NH

**Tues. May 30 - Fri. June 2nd**  
from  
**9 a.m. - 3 p.m.**

All barrels must be picked up by June 2nd

Order online  
or  
send a check or money order with an order form. [Click here.](#)

Only prepaid rain barrels will be delivered.

Orders must be received by May 22



[Add to Cart](#)

[http://www.skyjuice.us/html/nh\\_aquarion\\_water\\_co\\_.html](http://www.skyjuice.us/html/nh_aquarion_water_co_.html)



## Capital Projects 2017

Category	Description	Budget
Fleet	Truck replacement	\$40,000
General Plant	Facilities & equipment	\$20,000
Hydrants, Services & Valves		\$160,000
Main Replacements	Lafayette Road – Exeter Road to Winnacunnet Road	<b>\$610,000</b>
Meters		\$210,000
Pumping		\$60,000
SCADA	Telemetry equipment & programming	<b>\$180,000</b>
Source of Supply	Well 22 (permitting)	\$510,000
Tanks	Exeter Road Tank (design)	<b>\$280,000</b>
Transmission & Distribution	Capitalized main breaks Glendale Road loop	\$120,000
Treatment	Recurring Chemical Feed Equipment; Mill Road WTP, Centralized Treatment (design)	<b>\$940,000</b>
	<b>TOTAL</b>	<b>\$3,130,000</b>

## Capital Projects 2017

### Lafayette Road Main Replacement

1,400 feet of 6-year-old, 6-inch-diameter cast iron main

Coordination with Hampton sewer project / "downtown" enhancement

### Exeter Road Tank – Painting & Rehabilitation

Repainting after 35 years of service

Operating challenges

Major upgrades to Mill Road Tank & Booster, or construct another tank

### Mill Road WTP, Centralized Treatment

Consolidate treatment for all wells along Mill Road, and Wells 7 & 22, in a central location

Resolve a suite of operating deficiencies and inefficiencies, and reduce long term costs

Benefits

Reduced operations and maintenance costs

Water quality targets – finer control and capacity to meet corrosion control and disinfection targets

Fewer chemical treatment systems to maintain

Bulk chemical storage and pricing

Phased schedule over next few years

Build WTP

Replace undersized mains

Connect wells in sequence

New Source Development: Well 22

← 1 million gal / day ?

Goal is to increase Margin of Safety to long term goal of 15%

Bedrock well near Well 7 off Little River Road in Hampton

100's of gpm capacity, and good water quality

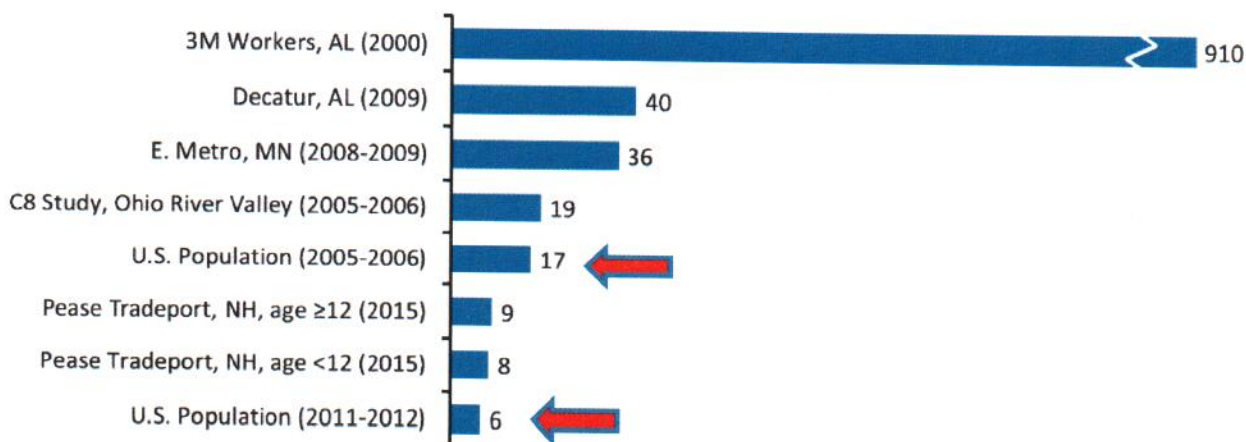
Two-week pump test this summer

## Perfluorinated Compounds

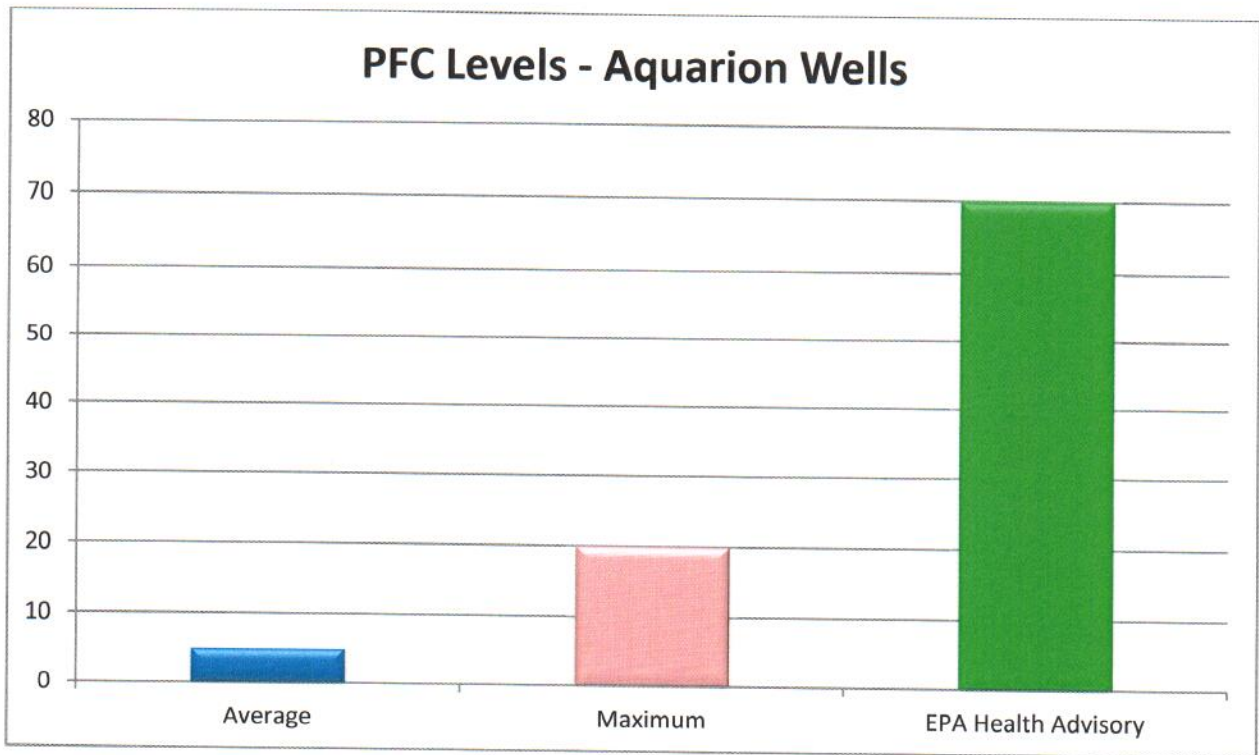
Commercial Products	Industrial Uses
Cookware (Teflon®, Nonstick)	Photo Imaging
Fast Food Containers	Metal Plating
Candy Wrappers	Semiconductor Coatings
Microwave Popcorn Bags	Aviation Hydraulic Fluids
Personal Care Products (Shampoo, Dental Floss)	Medical Devices
Cosmetics (Nail Polish, Eye Makeup)	<b>Firefighting Aqueous Film-Forming Foam</b>
Paints and Varnishes	Insect Baits
Stain Resistant Carpet	Printer and Copy Machine Parts
Stain Resistant Chemicals (Scotchgard®)	Chemically Driven Oil Production
Water Resistant Apparel (Gore-Tex®)	<b>Textiles, Upholstery, Apparel and Carpets</b>
<b>Cleaning Products</b>	Paper and Packaging
Electronics	Rubber and Plastics
Ski Wax	

### Comparison of Average Blood PFOS Levels in Various U.S. Populations to NH Pease Adolescents/Adults (Age ≥ 12) and Children (Age < 12)

**Average PFOS Levels in Blood (Micrograms per liter)**







- PFCs in new Hampshire
  - DES has sampled over 2,000 water sources statewide since March 2016
  - Many utilities, including Aquarion, also conducted testing
  - Approximately one-third of samples had detectable levels of PFCs
    - Most detections were less than the EPA Health Advisory Level of 70 parts per trillion
- USEPA MCLs for PFCs (and 1,4-dioxane) expected in near future



Aquarion Water Company of New Hampshire  
Results of Perfluorocarbon Samples from Wells, 2014 - 2016

Minimum Detection Levels

2014 - 2015  
2016

20 ng/L  
2 ng/L

EPA health advisory = 70 ng/L  
1 ng/L = 1 part per trillion

Well / Date	Perfluorooctanoic acid (ng/L)	Perfluorohexanoic acid (ng/L)	Perfluoroheptanoic acid (ng/L)	Total (ng/L)	Comments
5A					
15-Sep-2014	not detected	not detected	not detected		
10-Mar-2015	not detected	not detected	not detected		
25-Jul-2016	4	2	1	7	
6					closest well to North Hampton residential septic fields
16-Sep-2014	not detected	not detected	not detected		
14-Apr-2015	not detected		12	12	
25-Jul-2016	6	10	4	20	
7					
15-Sep-2014	not detected	not detected	not detected		
11-Mar-2015	not detected	not detected	not detected		
25-Jul-2016	3	1	1	5	
8A					
16-Sep-2014	not detected	not detected	not detected		includes blend with Wells 20 & 21
7-Apr-2015	not detected	not detected	not detected		includes blend with Wells 20 & 21
25-Jul-2016	2	1	1	4	
9					
16-Sep-2014	not detected	not detected	not detected		
10-Mar-2015	not detected	not detected	not detected		
25-Jul-2016	3	3	1	7	
10					
16-Sep-2014	not detected	not detected	not detected		includes blends with Wells 12, 13B, 16, 17, 18 & 19
10-Mar-2015	not detected	not detected	not detected		includes blends with Wells 12, 13B, 16, 17, 18 & 19
25-Jul-2016	1	not detected	not detected	1	
11					
16-Sep-2014	not detected	not detected	not detected		
10-Mar-2015	not detected	not detected	not detected		
25-Jul-2016	3	4	1	8	
12					
25-Jul-2016	2	1	not detected	3	
13B					
25-Jul-2016	1	not detected	not detected	1	
14					
15-Jun-2014	not detected	not detected	not detected		
11-Mar-2015	not detected	not detected	not detected		
25-Jul-2016	4	3	2	9	
16					
25-Jul-2016	3	2	1	6	
17					
25-Jul-2016	2	1	not detected	3	
18					
25-Jul-2016	1	not detected	not detected	1	
19					
25-Jul-2016	not detected	not detected	not detected	-	
20					
25-Jul-2016	1	not detected	not detected	1	
21					
25-Jul-2016	not detected	not detected	not detected	-	

not detected in any sample

Perfluorononanoic acid  
Perfluorodecanoic acid  
Perfluoroundecanoic acid

Perfluorododecanoic acid  
Perfluorotridecanoic acid  
Perfluorotetradecanoic acid

Perfluorobutanesulfonate  
Perfluorooctanesulfonate