



AQUARION  
*Water Company*

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*Stewards of the Environment™*

**Update to  
Rye Select Board  
December 14, 2020**

**John Walsh, Vice-President, Operations  
Carl McMorran, Operations Manager**

# Agenda

- Operations
- Water Quality
- Capital Projects
  - Treatment Improvements
  - Main Replacements
- Rate Case

# Water Service Mission

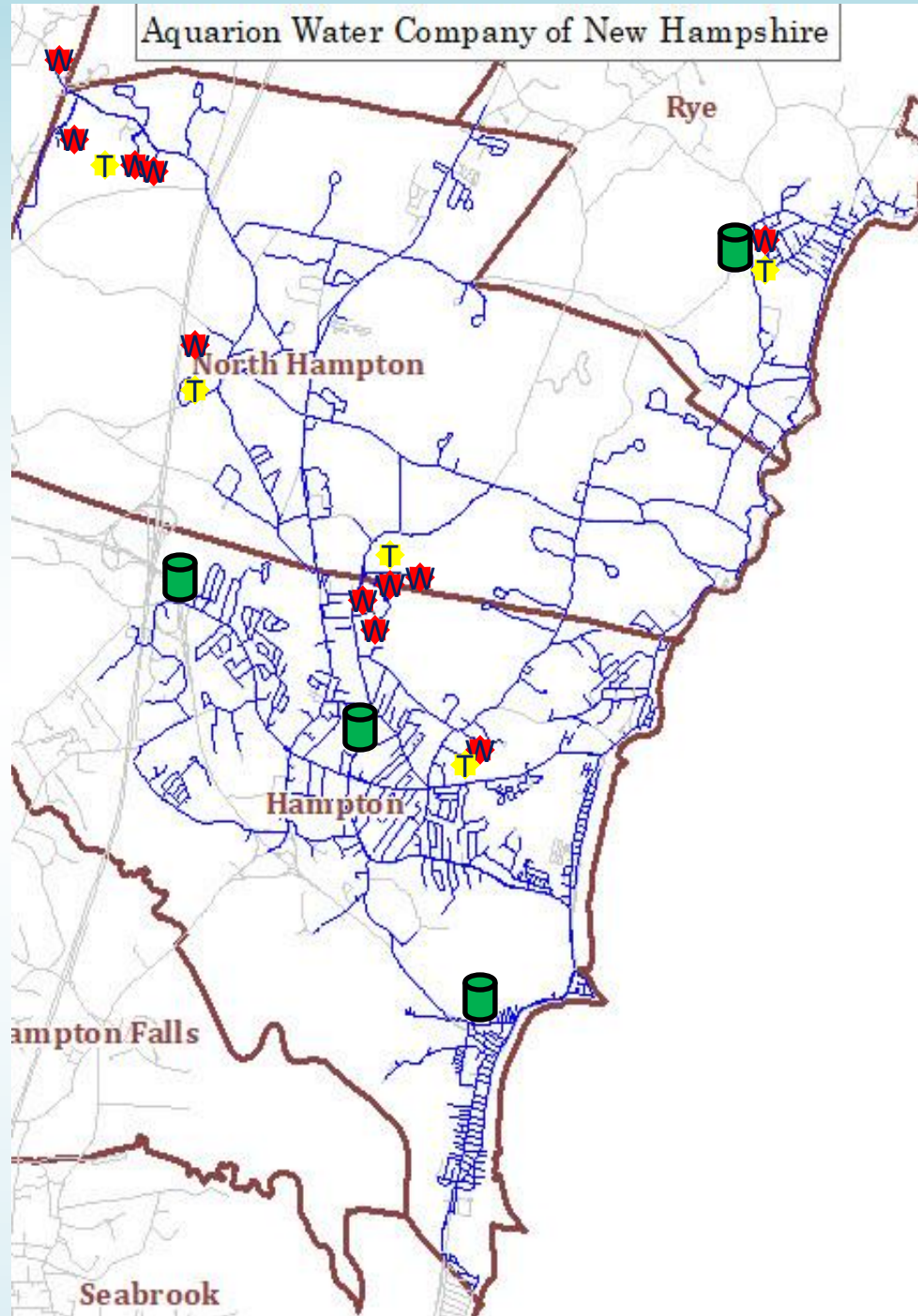
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## Safety

- Water Quality Meets State and Federal Drinking Water Standards

## Reliability

- At the Tap
- 24/7



# Water Service Infrastructure

## Production Facilities

-  17 Wells
-  5 Treatment Facilities
-  4 Storage Tanks

## Distribution System

- 140 Miles of Water Mains
- Over 9,000 Service Connections
- 600 Public and Private Hydrants
- 1,400 Valves

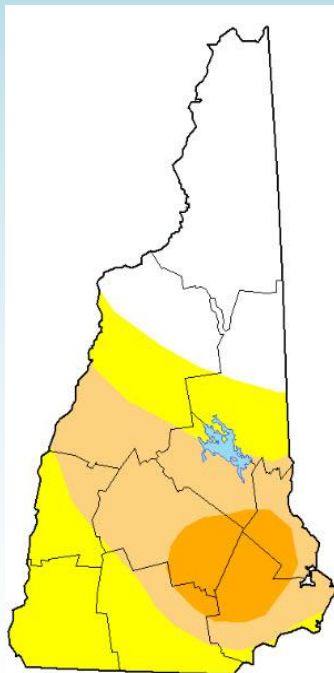
# 2020 Operations - Drought

## Source of Supply

## Drought

No required restrictions are in place, but residents and businesses were encouraged to follow the **Best Practices for Outside Watering**

## Flushing



Map released: Thurs. December 10, 2020

Data valid: December 8, 2020 at 7 a.m. EST

### Intensity:

- None
- D0 (Abnormally Dry)
- D1 (Moderate Drought)
- D2 (Severe Drought)
- D3 (Extreme Drought)
- D4 (Exceptional Drought)
- No Data

### Author(s):

David Simeral, Western Regional Climate Center

*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying **text summary** for forecast statements.*



# 2020 Operations – Water Quality

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## Lead and Copper

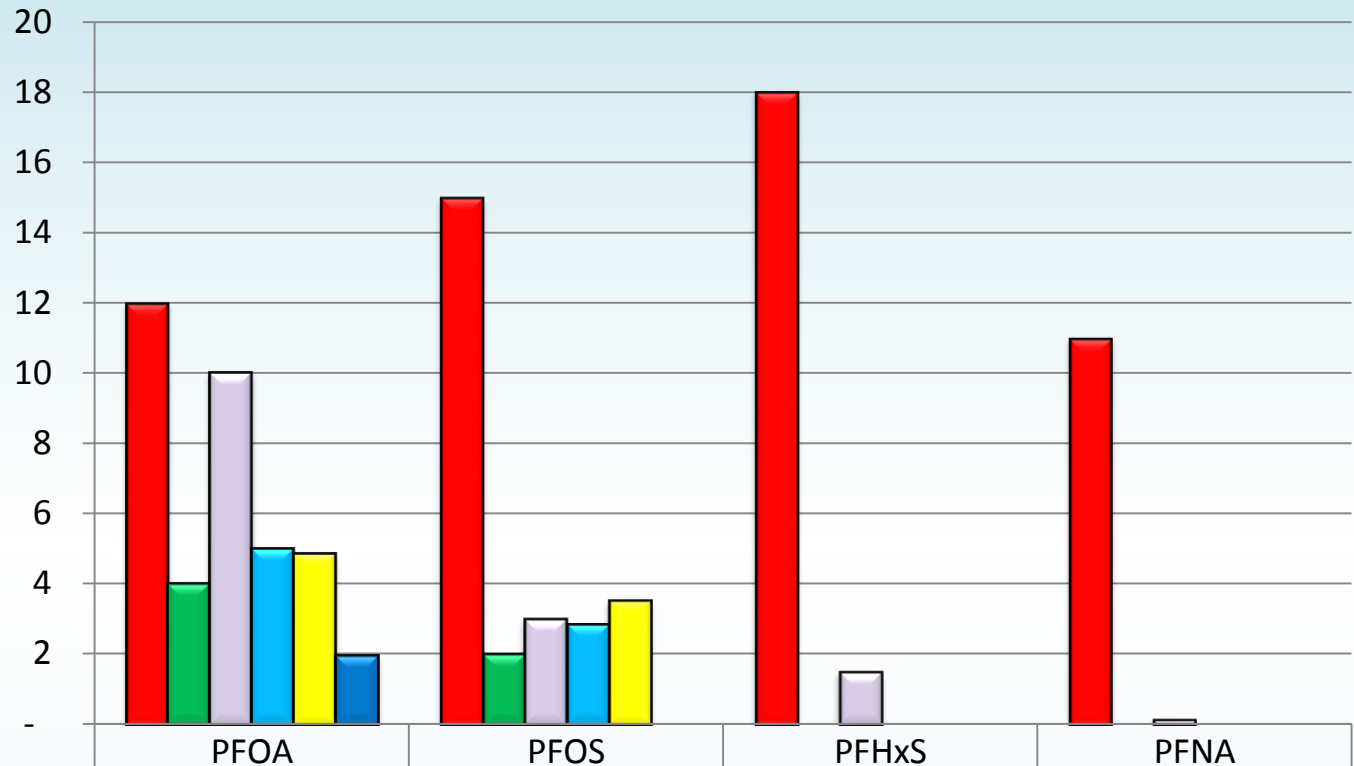
- 61 of 63 homes had no detectable levels of lead
- Trace levels of copper

## PFAS

- Regulated since 2019

# Observed PFAS Levels

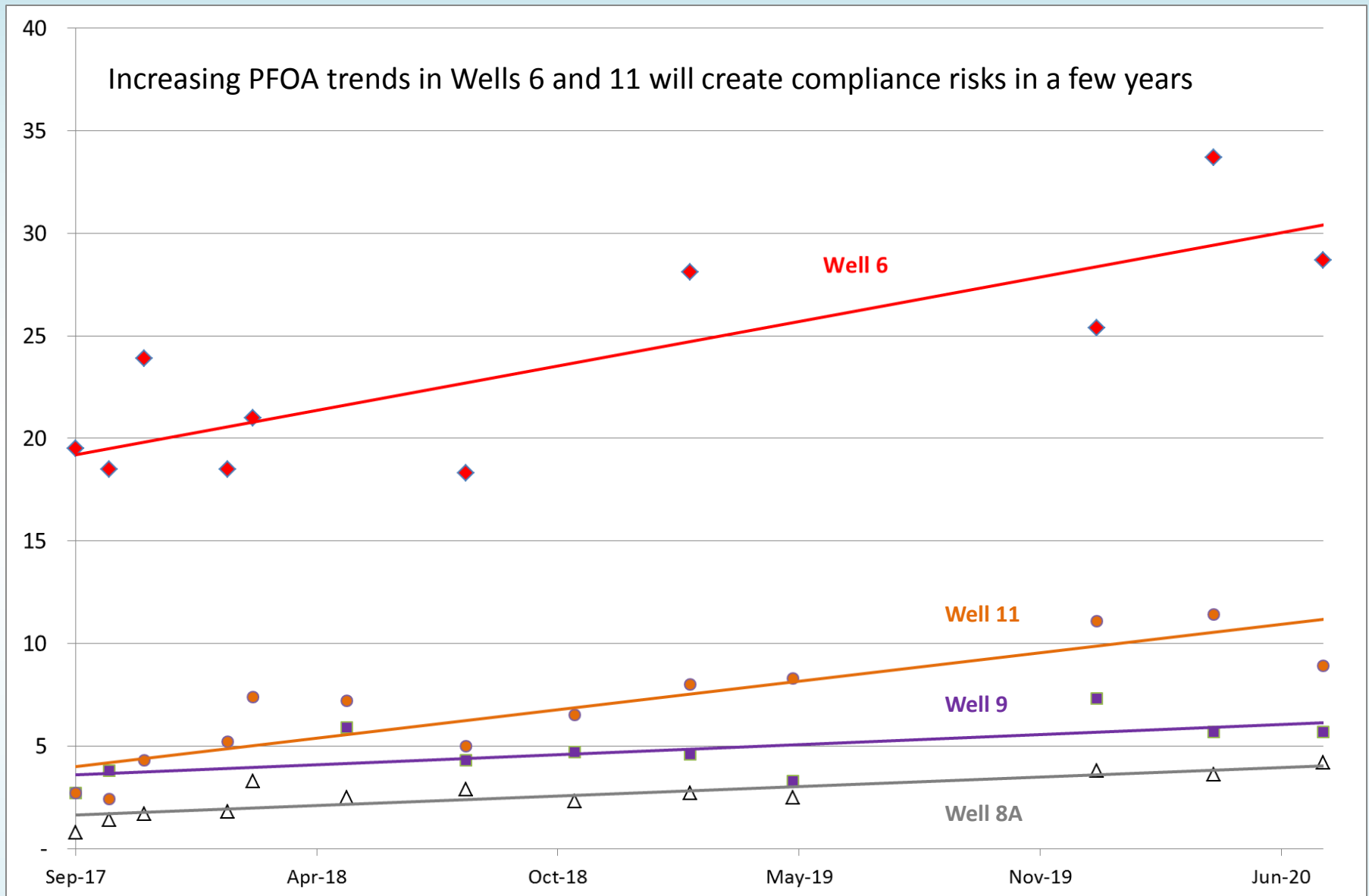
**PFAS Levels  
Do Not  
Exceed  
MCLs**



<span style="color: red;">■</span> Max. Contaminant Level	12	15	18	11
<span style="color: green;">■</span> Little River Rd WTP	4	2	-	-
<span style="color: purple;">■</span> Mill Rd WTP	10	3	1	0
<span style="color: blue;">■</span> Well 5A	5	3	-	-
<span style="color: yellow;">■</span> Well 14	5	4	-	-
<span style="color: darkblue;">■</span> Winnicut Rd WTP	2	-	-	-



# PFOA Monitoring at Mill Road Well Field





# Aquarion Investment in Water Supply and Treatment

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- **No water quality violations for the past 25 years**
- **Mill Road Water Treatment Plant (in service February 2020)**
  - Consolidates treatment for 6 wells
  - Improves consistency and efficiency of treatment
  - Enhances safety
- **Well 22 (in service June 2020)**
  - First new well since 2003.
  - Will be largest well after treatment installed (> 1 million gallons per day capacity).
  - Ensures adequate supply for the communities for decades to come.
- **Upcoming treatment projects**
  - 2021 – Treatment to remove PFAS at Well 6
  - 2022/2023 – New chemical treatment and arsenic removal treatment at Wells 7 and 22

**Mill Road Water Treatment Plant**



# Aquarion has Actively Addressed PFAS

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- NHDES set limits for 4 PFAS in 2019
- Aquarion PFAS Testing and Response
  - Voluntary testing for PFAS (2016 to present)
  - Identified PFAS in wells; relatively high in Well 6
  - Limited the use of Well 6
  - Evaluated treatment methods, and selected a solution
  - Will construct treatment facility for Well 6 in 2021
  - Will be applying for funds from Drinking Water and Groundwater Trust Fund (DWGTF) to defray costs and reduce impact on rate.
- Communications
  - Shared PFAS tests results with public officials and interested stakeholders on regular basis.
  - Provided public officials with summary of PFAS treatment alternatives, costs, and impact on water rates.

PFAS Pilot Facility



# Aquarion Investment in Water Main Replacements

Year	Length of Water Main Replacements (feet)
2010	2,160
2011	2,115
2012	3,455
2013	1,905
2014	3,284
2015	2,873
2016	2,588
2017	1,929
2018	5,726
2019	5,590
<u>2020</u>	<u>8,604</u>
Total	40,229

New Tee for Water Main Junction



# Settlement Agreement (April 2019)

## Requires Aquarion to File General Rate Case no later than 2020

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- General rate case application will request a rate increase.
- Infrastructure investments from 2012 through 2020 are the primary reason for the rate increase request.
- O&M expenses have been well controlled growing approximately 1% per year since 2011.