

City of Portsmouth



Pease International Tradeport Water System History and Operation

May 28, 2014

Revised: June 2, 2014

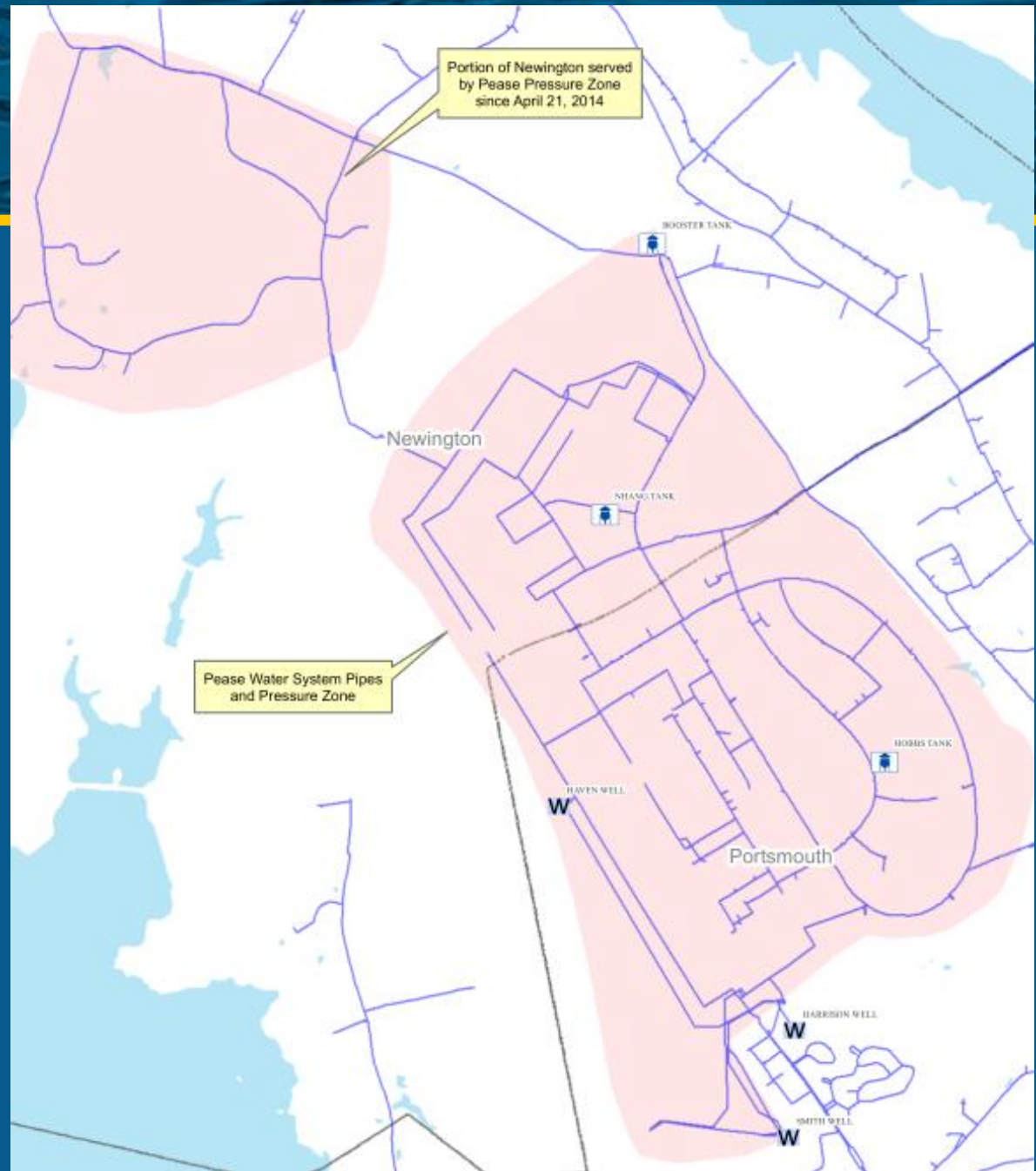
Revised: March 30, 2015

City of Portsmouth
Water Division
Department of Public Works
680 Peverly Hill Road
Portsmouth, NH 03801
603-427-1530
www.cityofportsmouth.com

Pease International Tradeport Water System

- **Built in the 1950's for the Pease Air Force Base**
- **Turned over to Pease Development Authority (PDA) in the 1990's**
- **Operated by the City of Portsmouth under agreements with PDA since late 1992**
- **Three groundwater sources:**
 - Haven Well (originally developed in 1870 by the City of Portsmouth's water system)
 - Smith Well (installed in 1958 as part of Air Base water system)
 - Harrison Well (reactivated in 2007)
- **Two 366,000 Gallon Elevated Storage Tanks**
 - Hobbs Hill Landing (slated to be replaced in 2015-2016)
 - Air National Guard

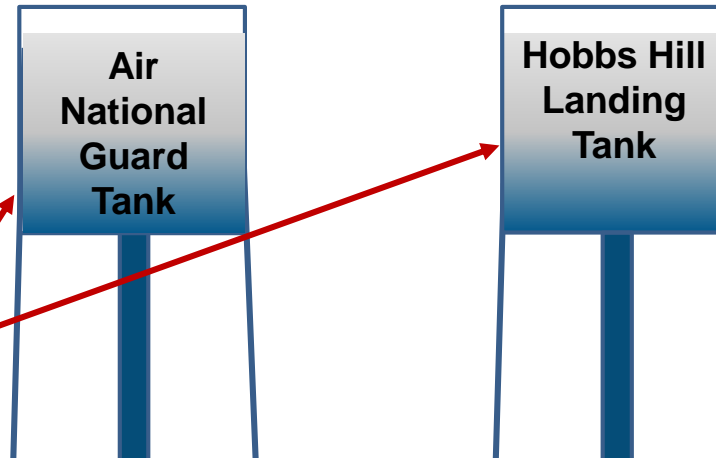
Pease International Tradeport Water System Service Areas



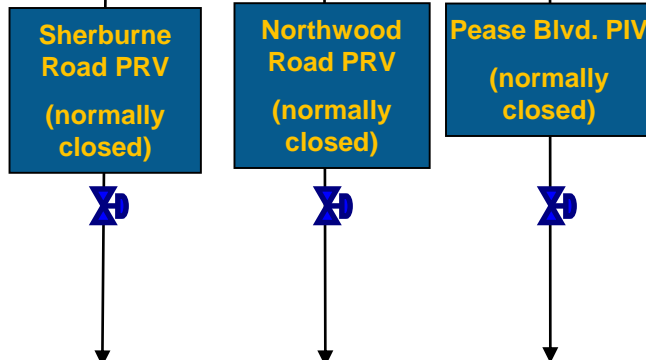
Pease International Tradeport Water System Components:

Operational Parameters Prior to Shutdown of Haven Well on May 12, 2014

Water Tank levels rise and fall based on system pressure and water demands. Normally filling at night and dropping down during the day.

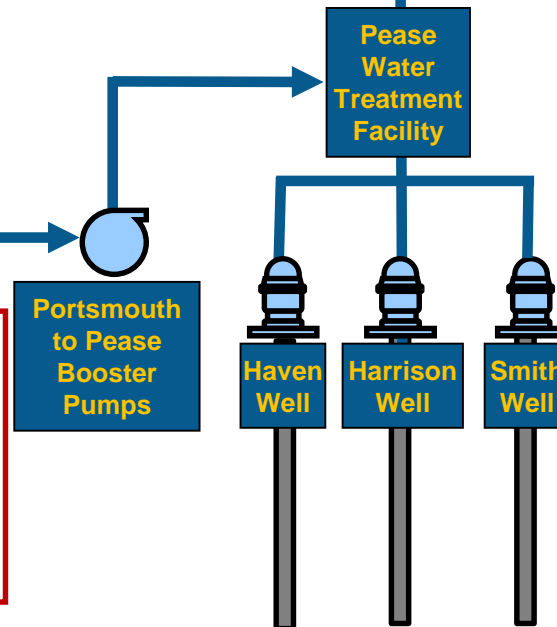


Pease International Tradeport Water System Pressure Zone



All water is piped through the Pease Water Treatment Facility where it is blended prior to being distributed to customers

Portsmouth Water System Pressure Zone



Water can be transferred between the two pressure zones:

- Pease to Portsmouth via valves that have been opened only on occasion for emergency supply
- Portsmouth to Pease via a booster pump system which has been used more often to supplement Pease source waters

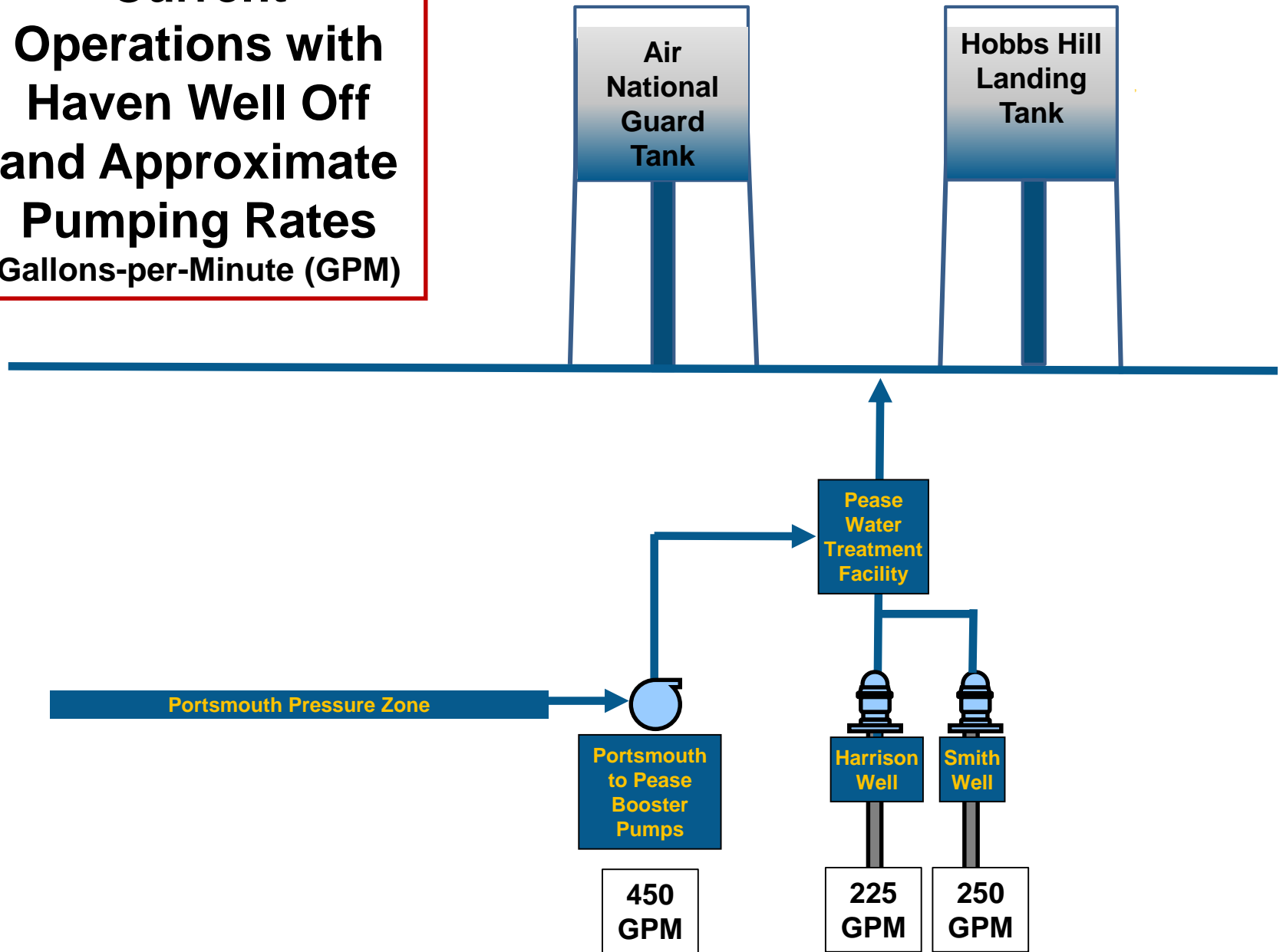
Normal Operations had all three wells turning on and off together based on tank levels with occasional use of Portsmouth booster. Current Operation uses Harrison, Smith and booster together with Haven off.

Pease International Tradeport Water System – Pumpage Data (2003 to May 12, 2014)

Average Pumpage from Each Source (based on monthly reports)

Timeframe	Haven	Smith	Harrison
January 2003 to May 2006	51%	49%	0%
June 2006 to April 2014	46%	21%	33%

**Current
Operations with
Haven Well Off
and Approximate
Pumping Rates
Gallons-per-Minute (GPM)**



Pease International Tradeport Water System – Current Operations (since May 12, 2014)

Average Pumpage from Each Source (based on current operations)

Timeframe	Haven	Smith	Harrison	Ports Booster to Pease
May 12, 2014 to Present	Off	27%	24%	49%

Pease International Tradeport Water System

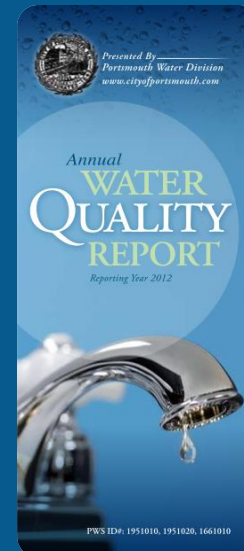
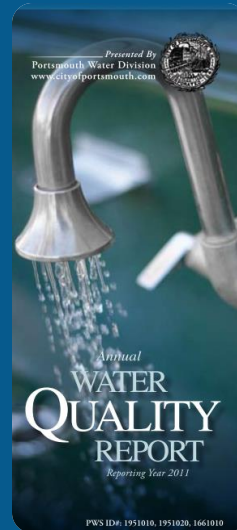
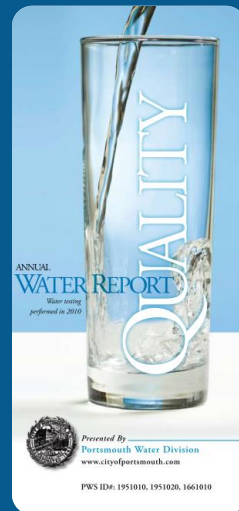
- The water system is regulated by the NHDES under Public Water Supply ID# 195120 and is operated by the City's certified water treatment staff.
- Routine water quality testing is performed as required by the Environmental Protection Agency's Safe Drinking Water Act and set forth in the NHDES's master schedule of sampling.

Haven Well Monitoring

- **The Haven Well was routinely monitored more extensively by the United States Air Force.**
 - Monthly water quality samples were taken by its consultant at the Haven Well and the surrounding area.
 - Reports of this sampling were generated monthly by the consultant and sent to various agencies including the City of Portsmouth.
 - All sampling, reporting and analysis was performed under the direction of the NHDES and the EPA.

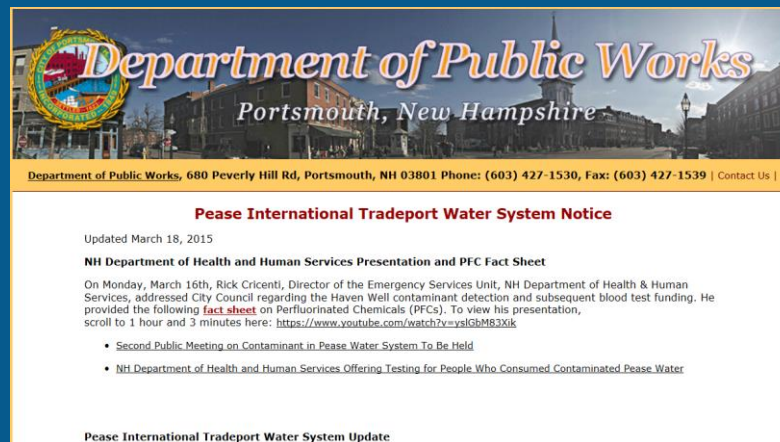
Water Quality Reporting

- Information with respect to drinking water quality is provided annually to all customers of the Portsmouth and Pease water systems through the Portsmouth Water Division's Annual Water Quality Report



Continued Monitoring of Other Supply Wells

- The Air Force's consultant is currently sampling the two other Pease wells and two Portsmouth wells in the area of the Southern wellfield.
- Additional sentry monitoring wells in the area are also being sampled
- Data from this analysis is tracked and posted on the City's website at:
- <http://www.cityofportsmouth.com/publicworks/phwn.html>



The screenshot shows the header of the City of Portsmouth Department of Public Works website. The header includes the city seal and the text "Department of Public Works, Portsmouth, New Hampshire". Below the header is a navigation bar with contact information: "Department of Public Works, 680 Peverly Hill Rd, Portsmouth, NH 03801 Phone: (603) 427-1530, Fax: (603) 427-1539 | Contact Us |". The main content area is titled "Pease International Tradeport Water System Notice" and is dated "Updated March 18, 2015". The text of the notice discusses a presentation by Rick Cricenti, Director of the Emergency Services Unit, to the City Council regarding the Haven Well contaminant detection and subsequent blood test funding. It provides a YouTube link to the presentation and lists two bullet points: "Second Public Meeting on Contaminant in Pease Water System To Be Held" and "NH Department of Health and Human Services Offering Testing for People Who Consumed Contaminated Pease Water". The footer of the page reads "Pease International Tradeport Water System Update".

Department of Public Works
Portsmouth, New Hampshire

Department of Public Works, 680 Peverly Hill Rd, Portsmouth, NH 03801 Phone: (603) 427-1530, Fax: (603) 427-1539 | Contact Us |

Pease International Tradeport Water System Notice

Updated March 18, 2015

NH Department of Health and Human Services Presentation and PFC Fact Sheet

On Monday, March 16th, Rick Cricenti, Director of the Emergency Services Unit, NH Department of Health & Human Services, addressed City Council regarding the Haven Well contaminant detection and subsequent blood test funding. He provided the following [fact sheet](#) on Perfluorinated Chemicals (PFCs). To view his presentation, scroll to 1 hour and 3 minutes here: <https://www.youtube.com/watch?v=yslgbM83Xk>

- [Second Public Meeting on Contaminant in Pease Water System To Be Held](#)
- [NH Department of Health and Human Services Offering Testing for People Who Consumed Contaminated Pease Water](#)

Pease International Tradeport Water System Update

Replacement of the Haven Well

- **The City of Portsmouth has a Memorandum of Agreement with the Air Force to replace the amount of water lost from the Haven Well with new sources of supply.**
- **A hydrogeologic consultant is currently working on identifying potential well sites. Ground surveys were performed during the fall and winter of 2014 and test wells are planned for 2015 at the most promising sites.**
- **Replacement wells will have to go through the State of New Hampshire's Large Groundwater Withdrawal permitting process. A new source of supply generally takes 2 to 5 years to bring into service.**