

# City of Portsmouth



## Pease International Tradeport Water System History and Operation

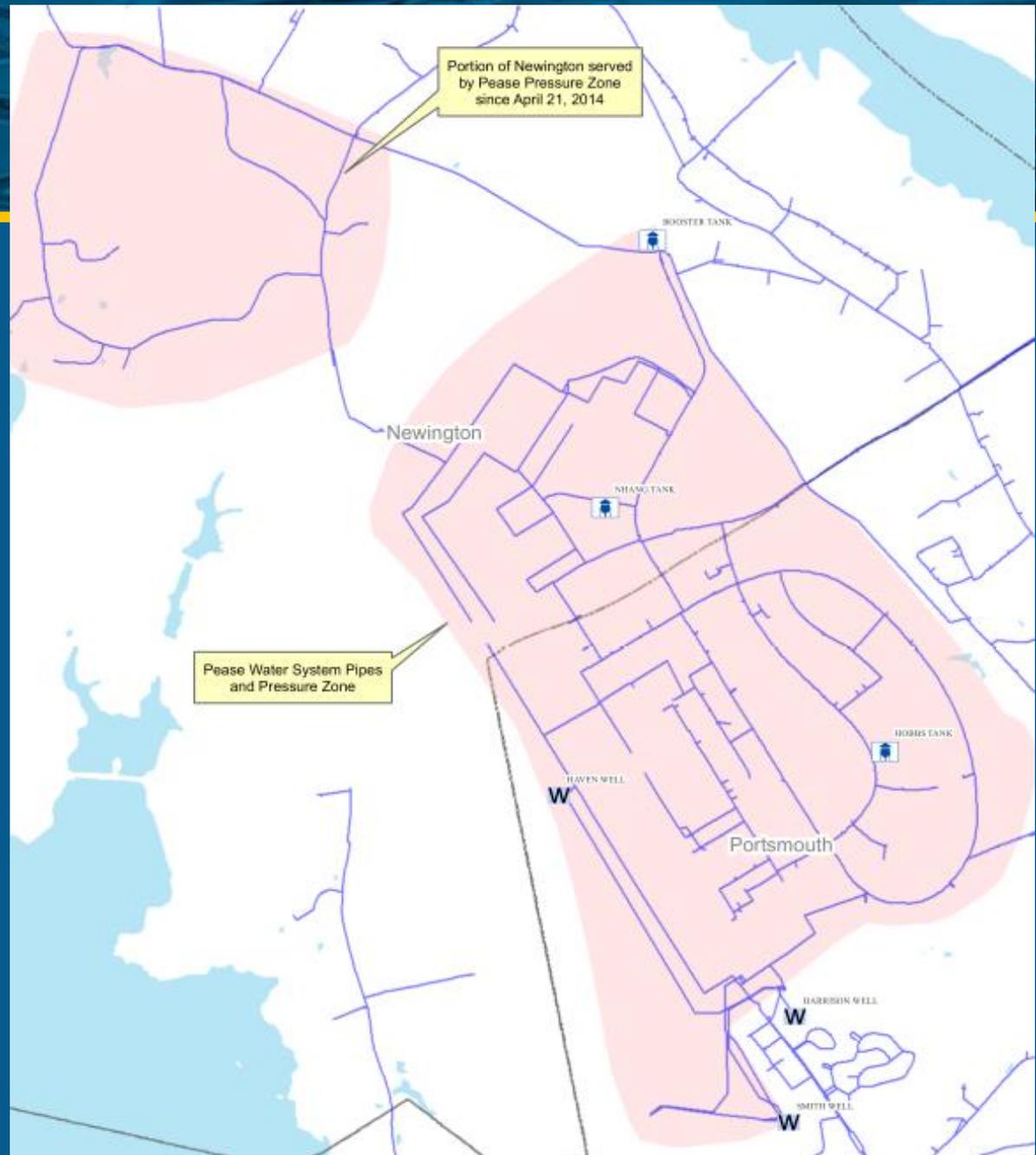
**June 2014**

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# 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 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 2014-2015)
  - Air National Guard

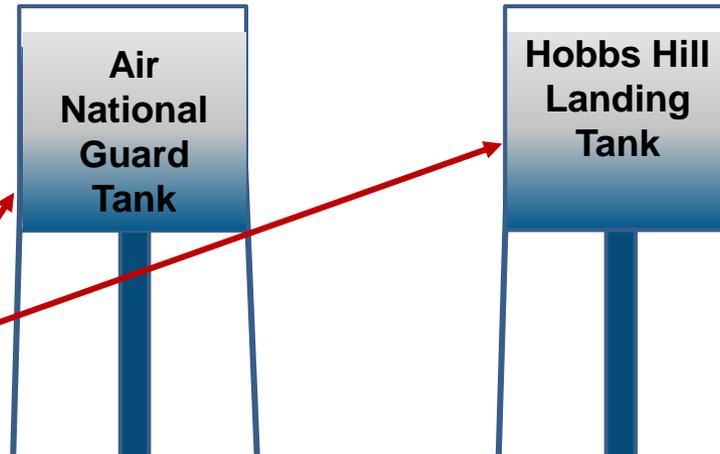
# Pease International Tradeport Water System Service Areas



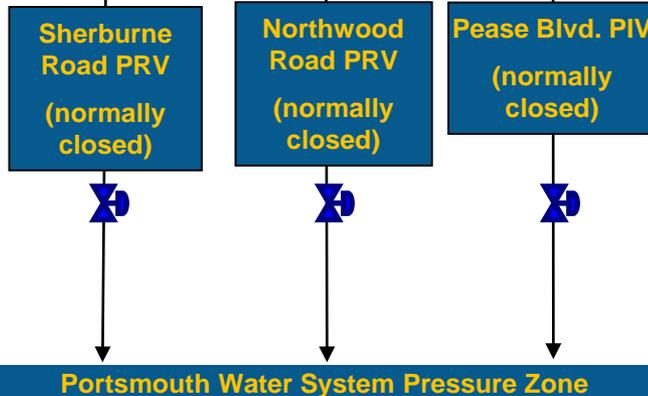
## Pease International Tradeport Water System Components:

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

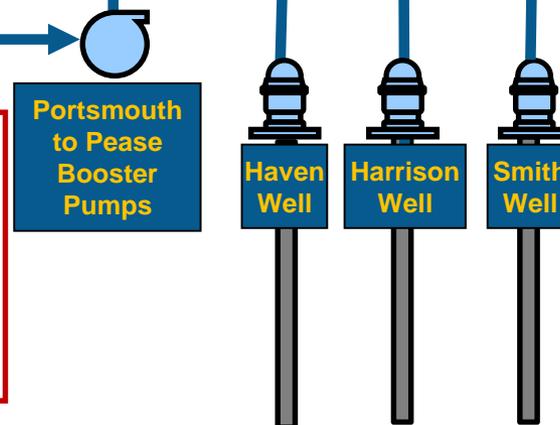
Water Tank levels rise and fall based on system pressure and water demands. Normally filling at night and dropping down during the day.



### 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



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

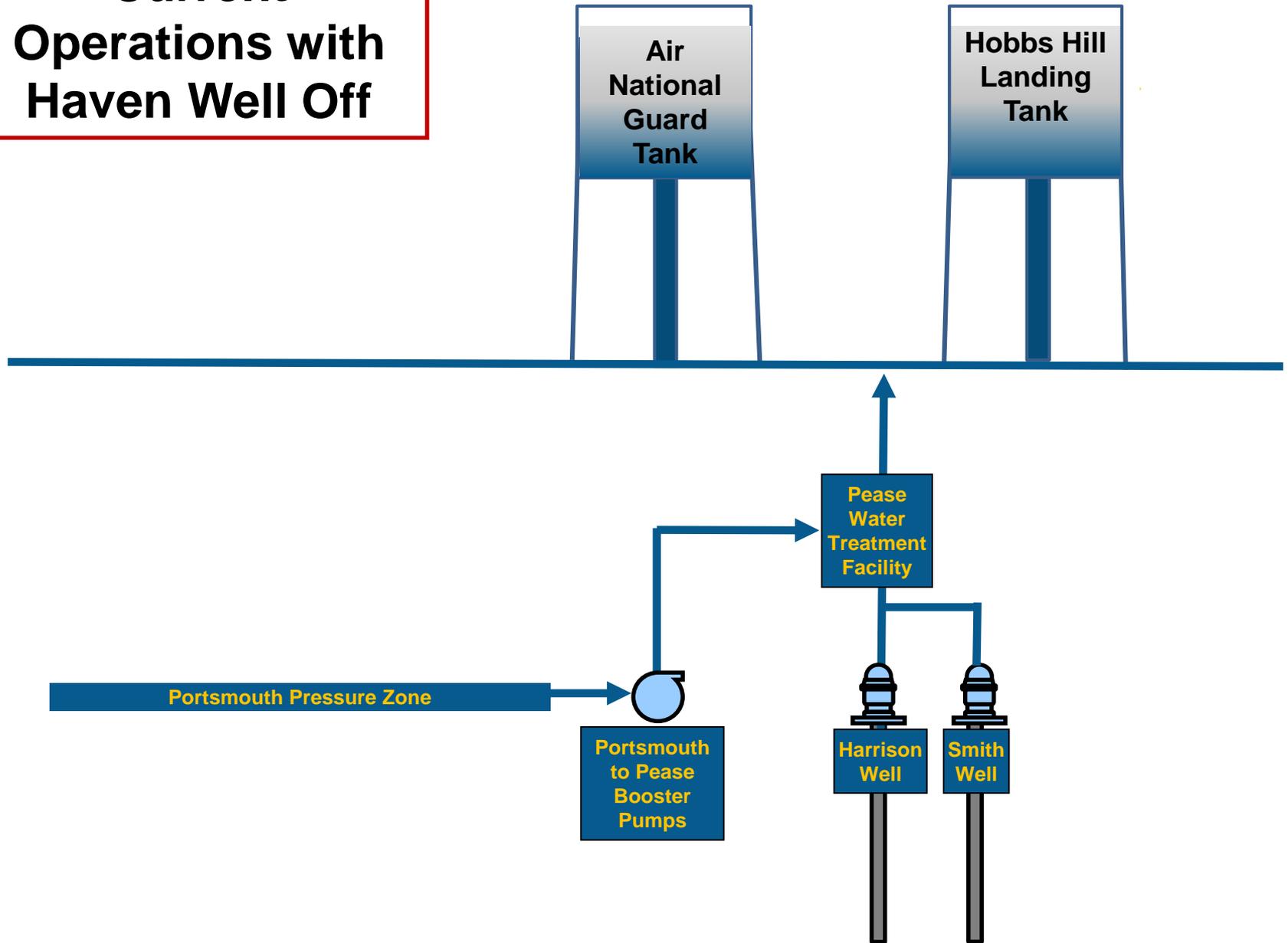
Normal Operations had all three wells turning on and off together based on tank levels with occasional use of Portsmouth booster. Current Operation uses Harrison, Smith and booster together with Haven off.

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

## Average Pumpage from Each Source (based on monthly reports)

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

# Current Operations with Haven Well Off



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

## Average Pumpage from Each Source (based on current operations)

<b>Timeframe</b>	<b>Haven</b>	<b>Smith</b>	<b>Harrison</b>	<b>Ports Booster to Pease</b>
<b>May 12, 2014 to Present</b>	<b>Off</b>	<b>31%</b>	<b>25%</b>	<b>44%</b>

# Pease International Tradeport Water System

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- 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

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- **The Haven Well has been monitored more extensively by the United States Air Force.**
  - Monthly water quality samples are taken by its consultant at the Haven Well and the surrounding area.
  - Reports of this sampling are generated monthly by the consultant and sent to various agencies including the City of Portsmouth.

# 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

