



Pease Water Treatment System Update

September 1, 2021

Portsmouth Safe Drinking Water Advisory Group

EPA Order to Treat Haven Well Water August 2015

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION I

In the Matter of:)
United States Air Force,)
Respondent.)
Former Pease Air Force Base,)
The "Facility")

Docket No.: SDWA-01-2015-0061

ADMINISTRATIVE ORDER
FOR RESPONSE ACTION

Proceeding Under Section 1431(a) of the
Safe Drinking Water Act,
42 U.S.C. § 300i(a)

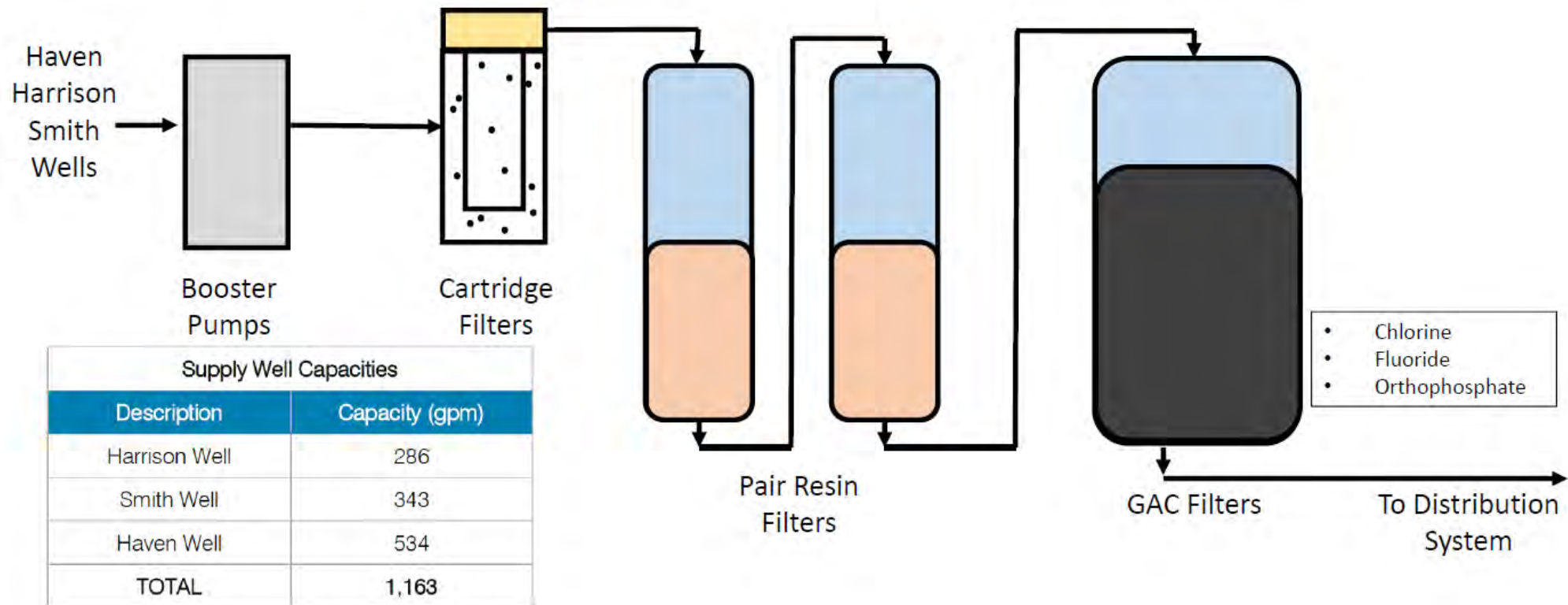
- Required Treatment System for Haven Well
- Air Force agreed to system that would also treat Harrison and Smith Wells
- City signed agreement with Air Force to design and construct the system
- Air Force agreed to reimburse the cost of design and construction

Grafton Road Well Treatment System:

Dual Filtration System:

- Resin Filters
- Activated Carbon Filters

Final Design Process Schematic



Pease Water Treatment Facility – Two Years of Construction

- Before – April 2019



- After – April 2021



June 2019 GAC Building Foundation



October 2019
GAC Building
Generator



Carbon Filter Installation – October/November 2019



May 2020



June 2020
Roof Demolition:



June 2020
Demolition of Existing Building:



August 2020 – Resin Filter Installation



March 2021 – New Well Manifold Installation



Final Pease Water Treatment System Filters

Activated Carbon Filters



Resin Filters



Completed Building



May 4, 2021 Dedication



May 4, 2021 Dedication



Haven Well Reactivation - History of Well:

- **1875 - Installed at Haven Springs**
 - A Primary Water Supply Source for the City of Portsmouth
- **1956 to 1992 - Pease Air Base**
- **1992 - PDA/Portsmouth**
- **May 2014 - Taken out of Service due to exceedance of PFOS Preliminary Health Advisory**



Haven Well Reactivation: Testing in 2021

- Well pumped briefly through Pease Water Treatment Facility (to waste) and sampled for PFAS compounds
 - Non detection after treatment
- 5 Day pump test to AIMS Treatment System – May 3rd to 8th
- Comprehensive Water Quality Analysis Performed at end of test
 - All regulated drinking water contaminant parameters sampled
 - No VOCs, SOCs, detected
 - All other parameters meet drinking water standards

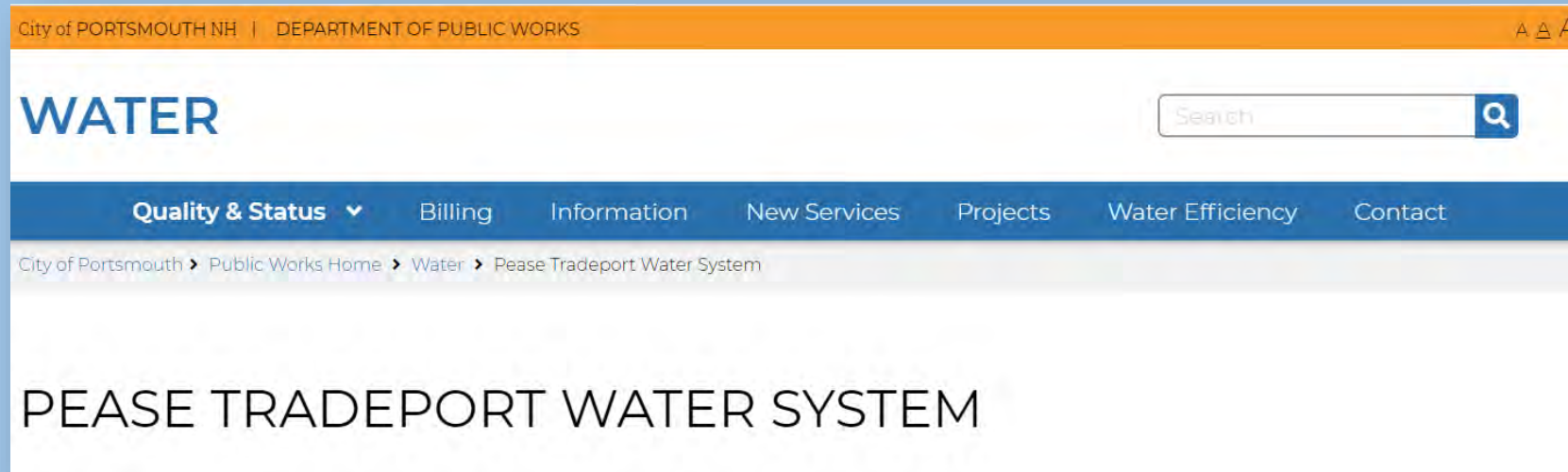
Haven Well PFAS Sample Results

- Significant drop in levels from 2014

	2014 (Ave of 2 Samples) PPT	2021 (Ave of 3 Samples) PPT
PFAS Sampling (New Hampshire Regulated Compounds)		
Perfluorohexanesulfonic Acid (PFHxS)	895	129
Perfluorooctanoic Acid (PFOA)	341	47
Perfluorononanoic Acid (PFNA)	17	4
Perfluorooctanesulfonic Acid (PFOS)	2,450	427

* PPT = Parts per Trillion

Haven Well Approval - Documentation

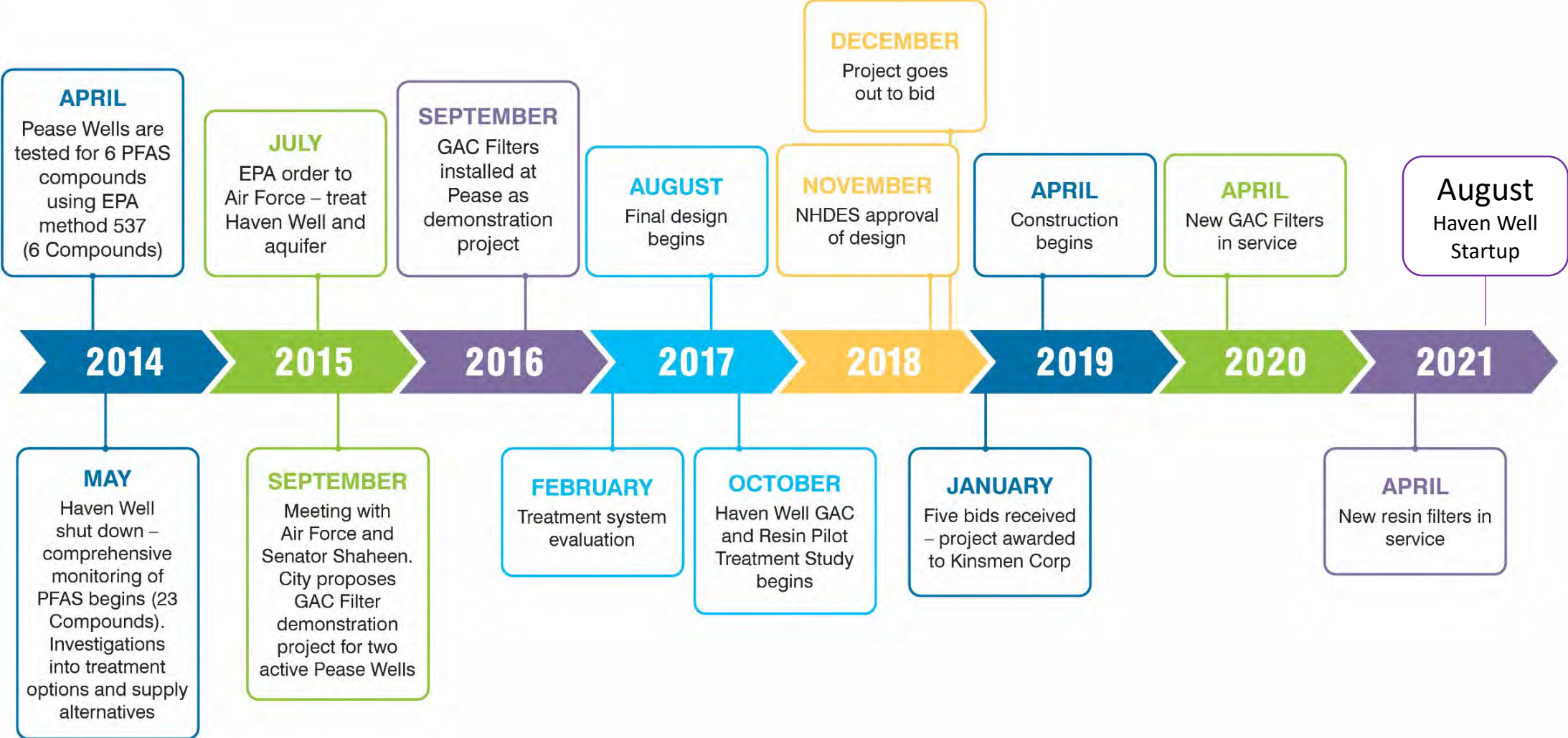


- Haven Well Treatment Certification Letter to NHDES - July 8, 2021
- Haven Well Reactivation Report - July 12, 2021
- NHDES Approval Letter - July 23, 2021

Haven Well Startup – August 3, 2021



PEASE TRADEPORT PFAS TIMELINE:



Questions

