# Pease Tradeport Water Treatment System Update



## Pease Restoration Advisory Board October 10, 2018

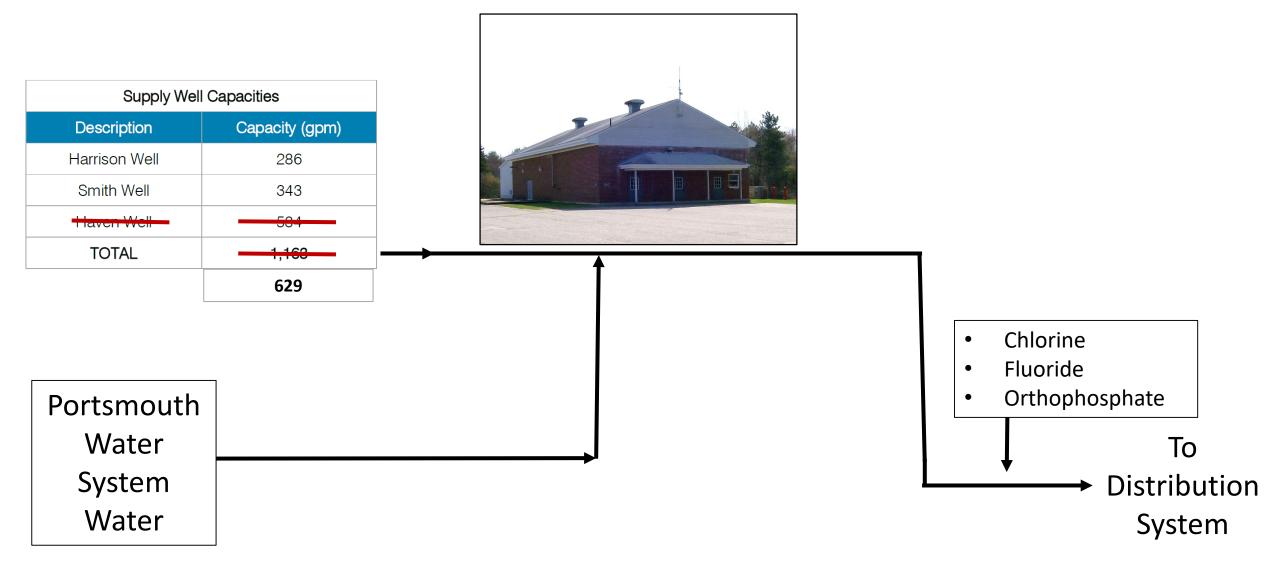
## Current Pease Tradeport Grafton Road Water Facility



## Grafton Road Water Facility Process Schematic Prior to PFAS Contamination

Supply W	ell Capacities	T	
escription	Capacity (gpm)		
arrison Well	286		
Smith Well	343		
laven Well	534		
TOTAL	1,163 -		
			Chlorine Fluoride

## Grafton Road Water Facility Process Schematic May 2014 to September 2016



## Pease Well PFOA/PFOS Response – Demonstration Filters in Service Since September 2016



City of Portsmouth Department of Public Works

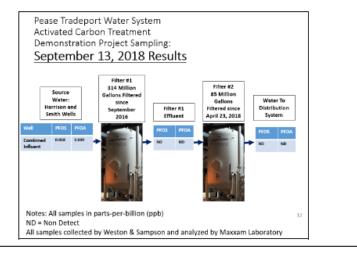


September 28, 2018

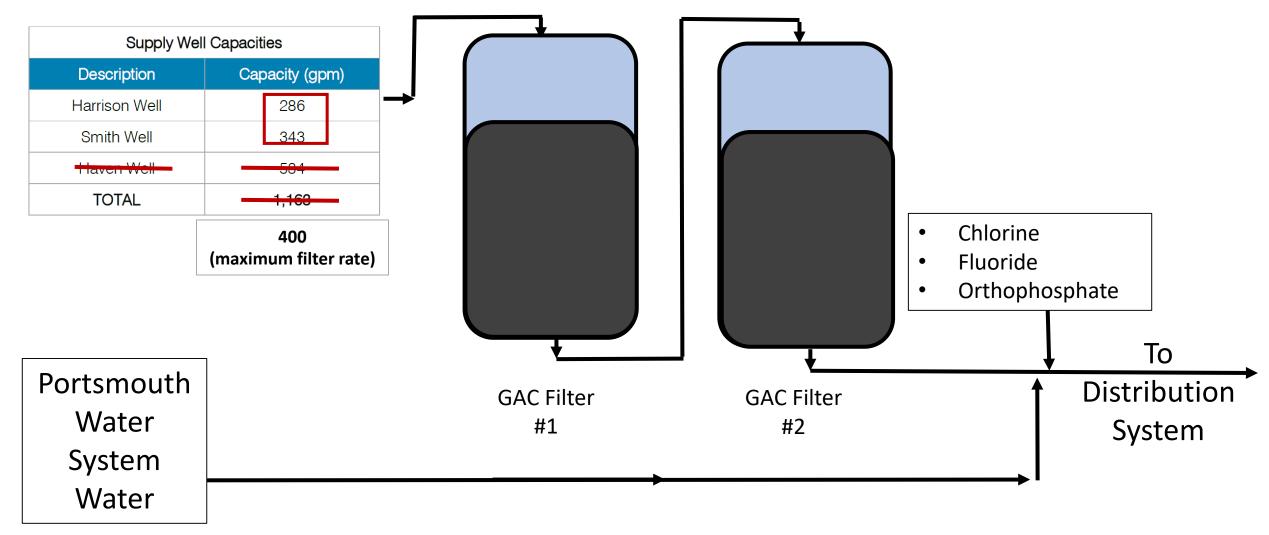
#### PEASE TRADEPORT WATER SUPPLY UPDATE

#### Demonstration Filter Performance

The City's engineering consultant continues to sample the performance of the activated carbon filters based on the amount of water treated. The graphic below shows the most recent source water sampling and treated filter water quality results for the PFOS and PFOA.

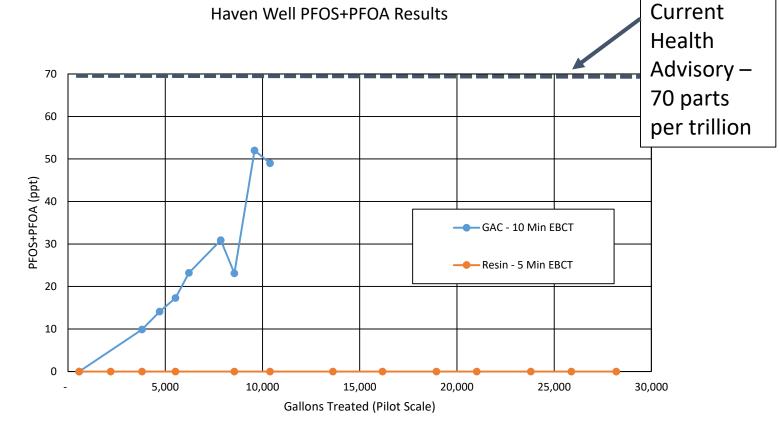


### Grafton Road Water Facility Process Schematic Granular Activated Carbon Demonstration Filters

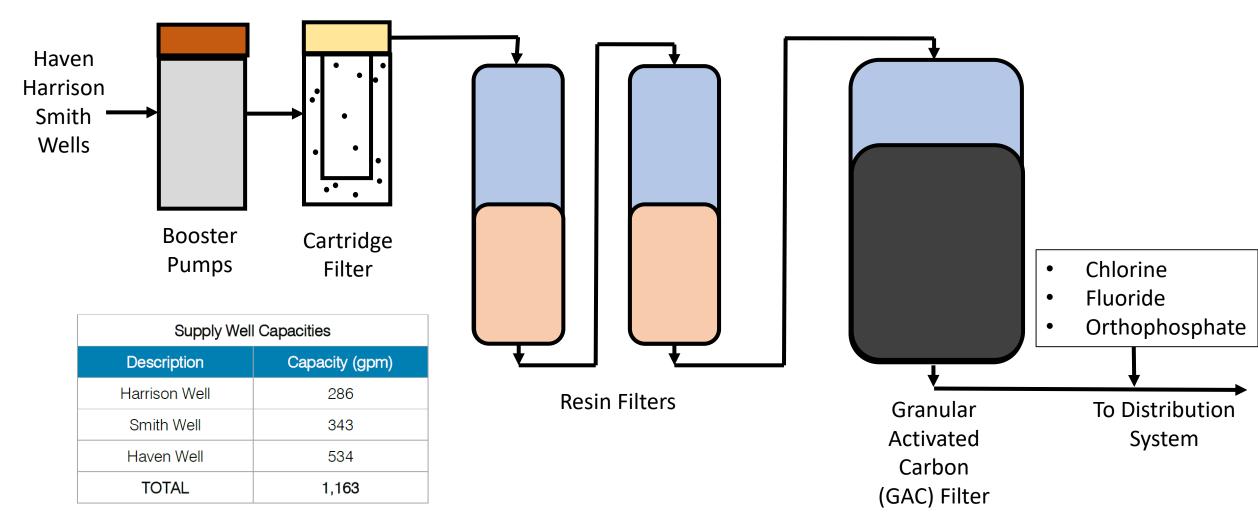


## Activated Carbon and Resin Piloting – Haven Well





## Grafton Road Water Facility Process Schematic Current Treatment System Design



#### Current Rendering – Grafton Road Water Treatment Facility



## Anticipated Construction Schedule

Activity	Duration	Start	Finish	Nov-18	Dec-18 Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jul-19	Aug-19	Sep-19	Nov-19	Dec-19	Jan-20	Mar-20	Apr-20	May-20	02-unr	Aug-20	Sep-20	Oct-20	Dec-20	Jan-21	Feb-21	Mar-21	May-21
Bidding	61	11/15/2018	1/15/2019																								
Contract Award	56	1/15/2019	3/12/2019																								
Notice to Proceed	0	3/12/2019	3/12/2019				×	,																			
Submittals	181	3/13/2019	9/10/2019																								
Equipment Procurement	224	6/4/2019	1/14/2020																								
Phase 1 - Building Addition & GAC Filters	379	6/10/2019	6/23/2020																								
GAC Filters On-Line with Smith & Harrison	27	5/27/2020	6/23/2020																$\star$								
Phase 2 - Resin Skid, Cartridge Filters, Booster Pumps	279	5/29/2020	3/4/2021																								
Full System Start-Up with Smith & Harrison	48	1/15/2021	3/4/2021																							$\star$	
Phase 3 - Admin Area, Site Work, Haven Well Online	200	10/15/2020	5/3/2021																								
Full System Start-Up with Haven	42	3/4/2021	4/15/2021																								*
Final Completion	4	4/29/2021	5/3/2021																								*

### **Milestones:**

- Spring 2019 Begin Construction
- June 2020 New GAC Filters (switchover of Harrison/Smith Wells)
- Spring 2021 Startup with Resin/GAC filters (Harrison/Smith Wells)
- Summer 2021 Haven Well Startup

Future Water Quality Monitoring of Haven Well and Pease Tradeport Aquifer

- Ongoing discussions with Air Force and regulators about developing a comprehensive water quality monitoring programs for:
  - Required Compliance Monitoring
  - Filter Performance Monitoring
  - Aquifer Monitoring

# Thank You



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