Pease Tradeport Water System Update

October 1, 2018

Portsmouth City Council
Pease PFOA/PFOS Treatment Systems:

1) Former Fire Training Center
   • In Operation

2) Haven Well Aquifer Treatment
   • Under Construction

3) Pease Tradeport Drinking Water Treatment
   • In Final Design
Current Pease Tradeport
Grafton Road Water Facility
Grafton Road Water Facility Process Schematic
Prior to PFAS Contamination

- Haven
- Harrison
- Smith
- Wells

• Chlorine
• Fluoride
• Orthophosphate

To Distribution System
Grafton Road Water Facility Process Schematic
May 2014 to September 2016

Haven
Harrison
Smith
Wells

Portsmouth
Water
System
Water

• Chlorine
• Fluoride
• Orthophosphate

To Distribution System
Pease Well PFOA/PFOS Response –
Demonstration Filters in Service Since September 2016
Activated Carbon Filter Media Changeout
Filter #2 - March 2018

Another Media Changeout will take place in late October/early November 2018. This will include both Filters
Activated Carbon and Resin Piloting – Haven Well

Haven Well PFOS+PFOA Results

Current Health Advisory – 70 parts per trillion
Grafton Road Water Facility Process Schematic
Current Proposed Treatment System

- Booster Pumps
- Cartridge Filter
- Resin Filters
- Granular Activated Carbon (GAC) Filter
- To Distribution System

- Chlorine
- Fluoride
- Orthophosphate
Current Rendering – Grafton Road Water Treatment Facility
## Anticipated Construction Schedule

### 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
Pease Tradeport PFOA/PFOS – City Projects
Air Force Agreements and Reimbursement

• Replacement Well Study - $179,000  (Sep 2014)
• Preliminary Design Study for Treatment System - $60,000  (Nov 2015)
• Pilot Testing and Carbon Filter Demonstration Project - $948,000  (Apr 2016)
• Treatment Facility Comparative Analysis - $46,623  (Feb 2017)
• Final Treatment Facility Design - $1,329,000  (Aug 2017)
• Resin Filter Treatment Design - $138,000  (Sep 2018)
• Construction Starting in FY19 - $14,300,000  (Sep 2018)
• Long-Term Operations and Maintenance Agreement - TBD
Thank You.