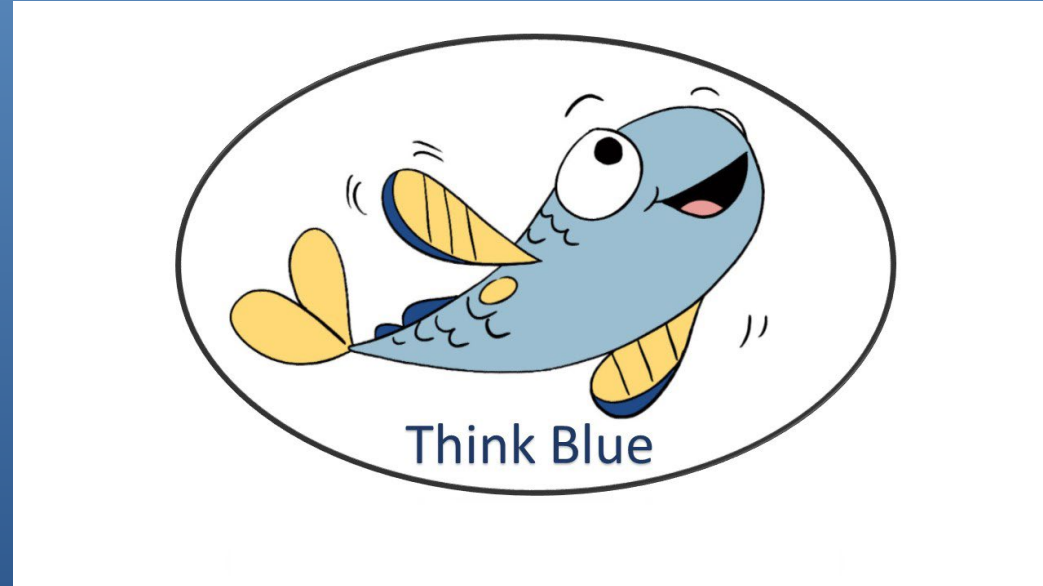


Portsmouth and Pease Water Update



Safe Water Advisory Group
December 13, 2023

Water Supply Update

City of Portsmouth

Department of Public Works



Portsmouth and Pease International Tradeport Drinking Water Status Report 2023 – Third Quarter – July to September

Highlights of 2023 – Third Quarter

The following report provides a summary of the water system operations for the Portsmouth and Pease International Tradeport drinking water systems. Highlights from this period for both water systems include:

- The Portsmouth and Pease drinking water systems had no drinking water quality violations in this quarter.
- Water Production:
 - Continues to be well below the 10 year historic average as shown in the graph
- Precipitation for this quarter was above average. Ample supply available.

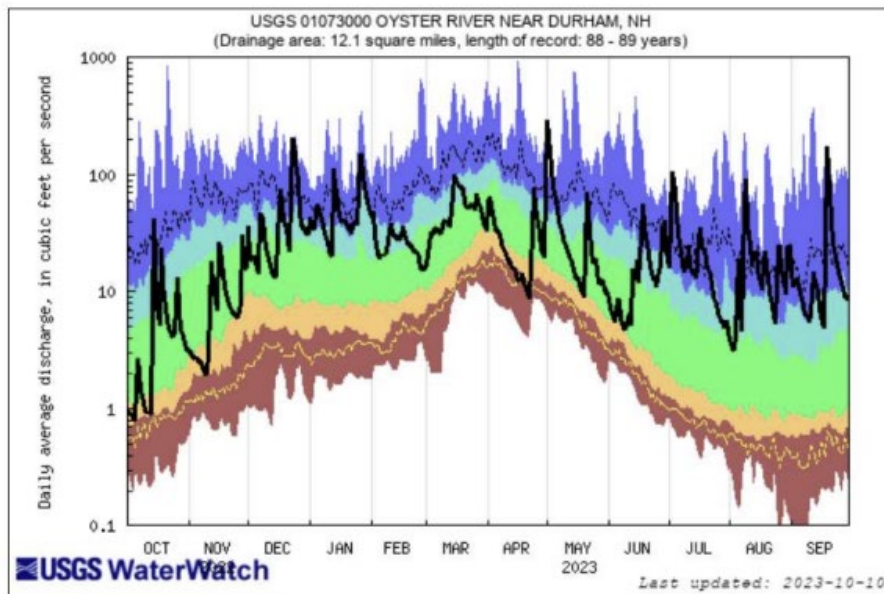
Currently in a Wet Cycle

Surface Water Flows Above Average

USGS Streamflow Duration Hydrograph Builder

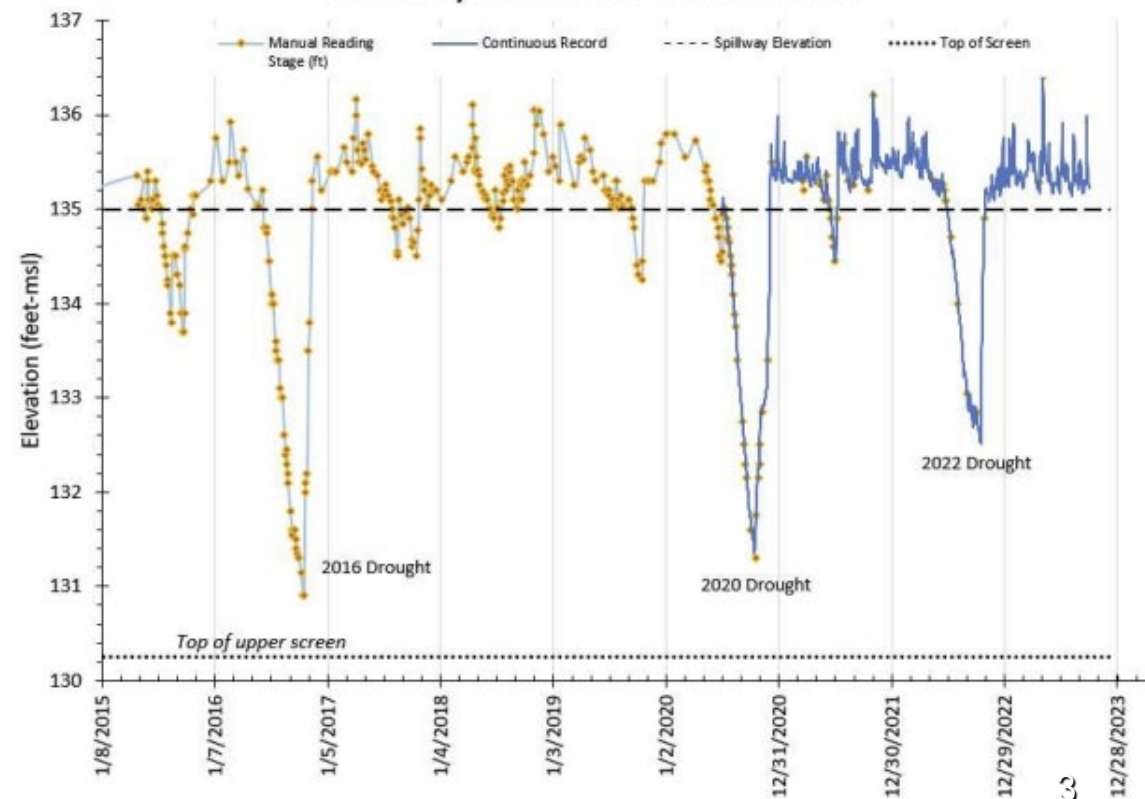
Site number: 01073000 | Year: 2023 | No. of years: 1 | Year type: Water Year | GO
Flow: Daily | cfs | Graph type: Regular | Output: Hydrograph | Overlay

For some streams, flow statistics may have been computed from mixed regulated and unregulated flows; this can affect depictions of flow conditions.



Reservoir Levels are Good

Bellamy Reservoir Water Level



Collins Well Upgrades



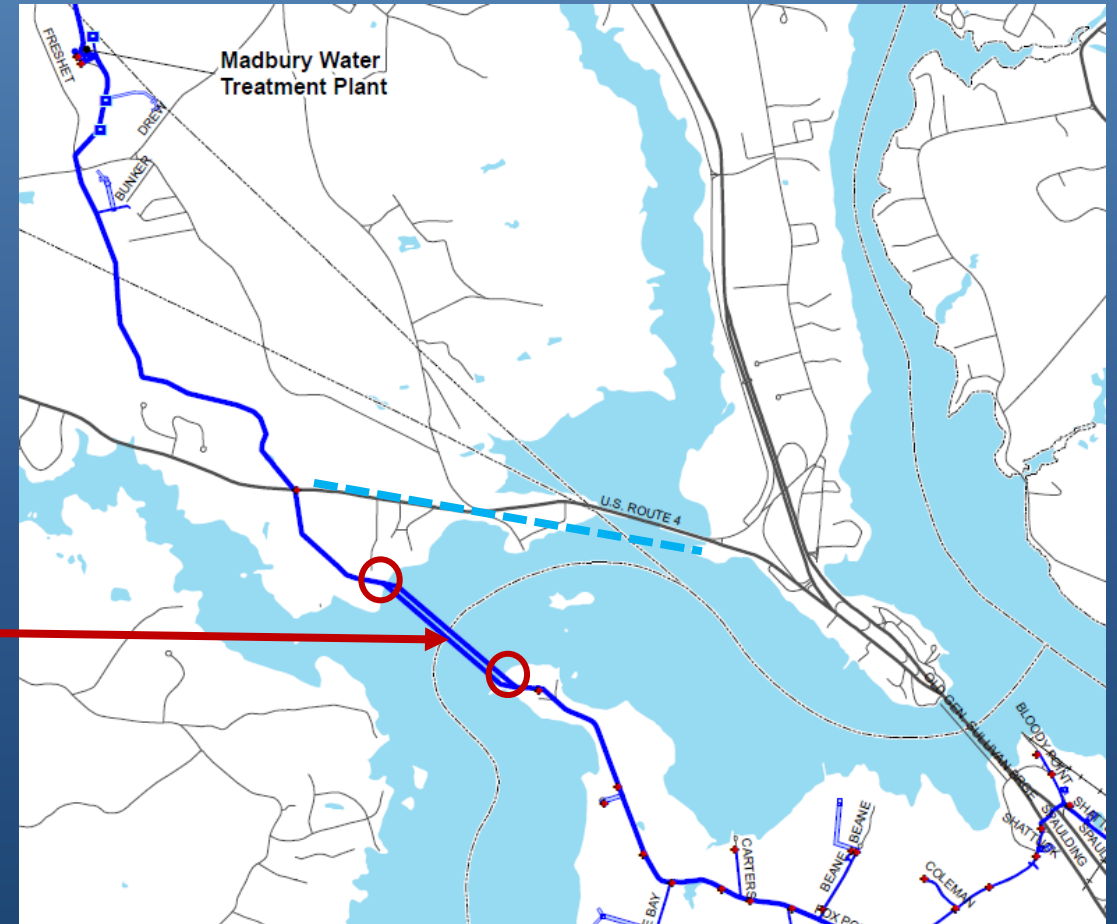
Existing
Collins Well #1

New
Collins Well #2

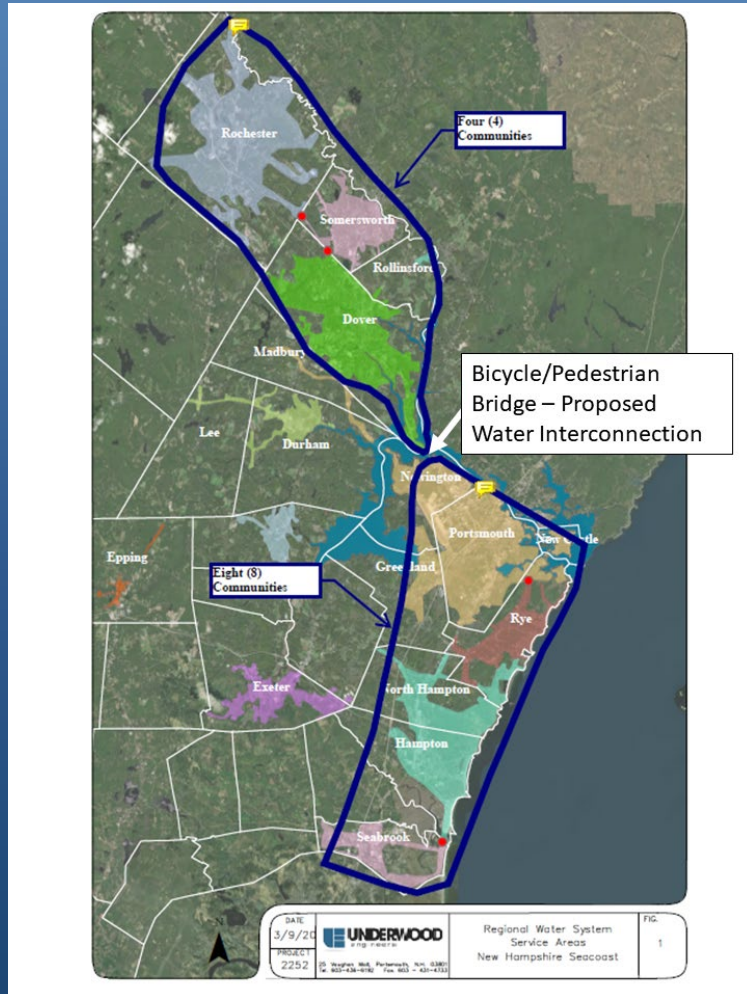
- New well complete and well screen installed
- Design for construction of pumps and pipelines to follow


Little Bay Water Transmission Main Project


- Due to high bid on new waterline under the bay (\$26M), project has been split into three phases:
 1. Install new valves on either side of the bay for the two existing pipes. Install the connection for the third pipe. Currently out to bid for late winter/early spring construction. ○
 2. Bid the full new line project in the spring. Move forward with project if we receive a favorable bid. ———
 3. Investigate possibility of creating an interconnection with Dover's water system down Route 4 to the traffic circle.



Portsmouth – Dover Emergency Interconnection



 NEW HAMPSHIRE DRINKING WATER & GROUNDWATER TRUST FUND



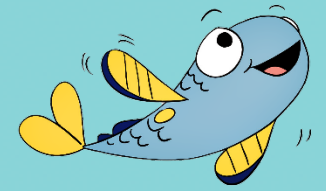
Commission Members January 18, 2022

Senator Chuck Morse, <i>Chair</i>	Brian Goetz bfgoetz@cityofportsmouth.com	John Storer j.storer@dover.nh.gov
Senator Tom Sherman, <i>Vice Chair</i>	Deputy Director Portsmouth Water Works	Community Services Director Dover Water Department
Bruce Cohen, NH State Representative	680 Peverly Hill Road Portsmouth, NH 03801	271 Mast Road Dover, NH 03820
Linda Gould, NH State Representative		

Subject: Portsmouth – Dover Emergency Interconnection

- Bid for new Bicycle/Pedestrian bridge was too high for DOT to accept.
- We will await DOT's decision on next steps

Watershed Protection

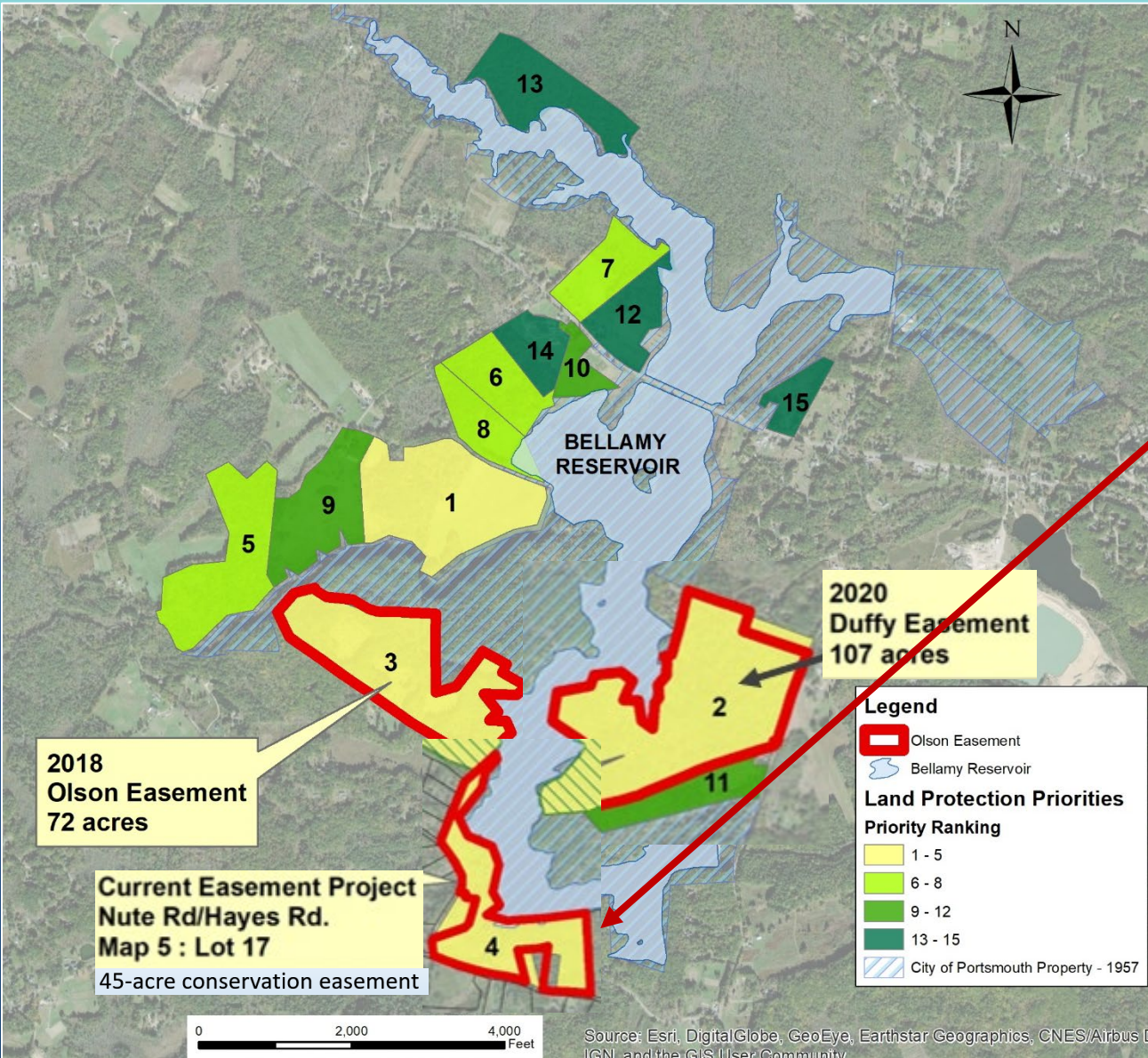


Fernald Easement Purchase –
Currently in Progress



NHDES

Source Water Protection Award - 2023



Pipe Replacement Projects

- Middle and Union Streets
- Islington Street
- Market Square Valve Replacements



Master Planning – 2023/2024

- Currently Under Way with
Haley Ward Engineers

- Tank Inspections and Cleaning
- Hydraulic Assessment of
Southern Portion of System
and Greenland Area Pressure
- Update the Hydraulic Model
of the Entire Water System



INFRASTRUCTURE MANAGEMENT

Phone: 877.821.6138 | office@aqueousco.com

Report Da

Account Overview

Portsmouth NH Water System
Lafayette 7.5 MG Tank
Finished Water
96'H x 114'D
7500000
95 Constitution Ave, Portsmouth, NH 03801, USA
43.035506
-70.787505
Clean (Sediment Removal) Inspection

e:



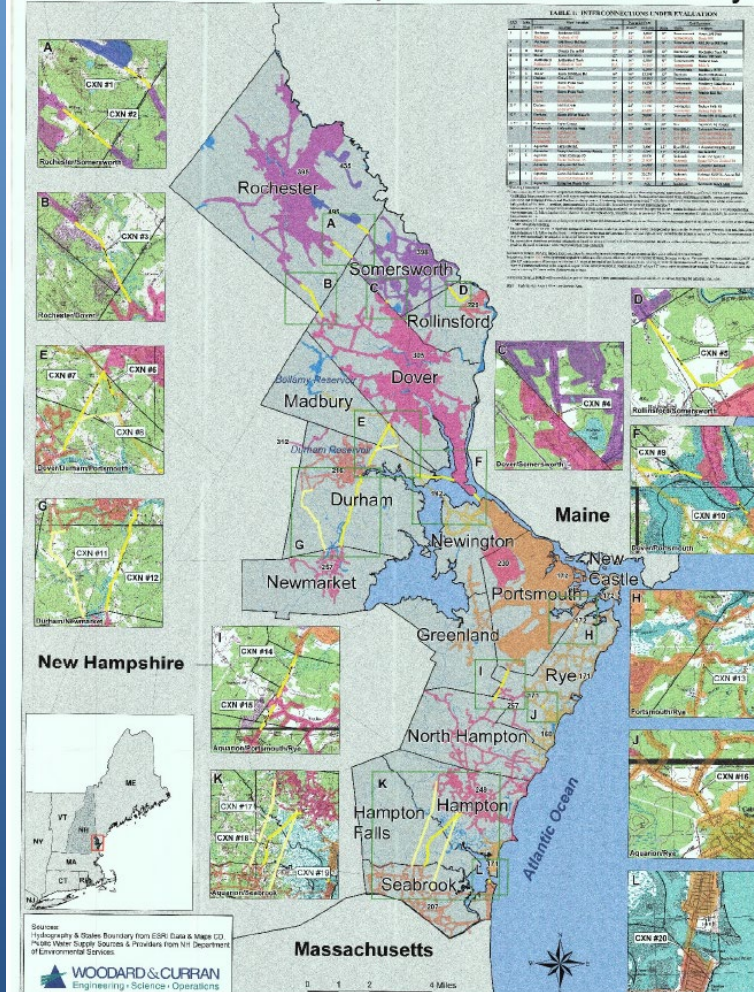
Report Review & Approval

A handwritten signature in black ink, appearing to read "David Cornish".

David Cornish, President



Seacoast New Hampshire Mutual Aid Study



The State of New Hampshire
Department of Environmental Services



Robert R. Scott, Commissioner

STATE OF NEW HAMPSHIRE
DEPARTMENT OF ENVIRONMENTAL SERVICES
Seacoast NH Emergency Interconnection Study Update

RFQL DES 2024-02

- Update the 2006 Study
- Expand the study area
- Provide recommendations for future interconnections and/or mutual aid agreements
- Underwood Engineers has been selected to do the work
- One year of study (through December 2024)

**Seacoast NH Emergency
Interconnection Study
- 2023 Update**

PFAS Average – 12 Month Rolling (Jan. 2023 - Dec. 2023)

- All Sources In Compliance

	Parts Per Trillion (PPT)	NH MCL	RAW*	MADBURY WTP FINISHED	MADBURY WELL 2	MADBURY WELL 3	MADBURY WELL 4R	MADBURY WELL 5	PORTSMOUTH WELL	COLLINS WELL	GREENLAND WELL	PEASE WTP
PFHxS	ng/L	18	0	0	0	0	0	0	7	1	0	0
PFOS	ng/L	15	0	0	0	0	0	0	5	4	3	0
PFOA	ng/L	12	1	1	3	3	2	3	6	3	4	0
PFNA	ng/L	11	0	0	0	0	0	0	0	0	0	0

- Highlighted results are those at 4ppt or higher – the current EPA proposed Maximum Contaminant Level
- Pease Water Treatment – Non-detect for all regulated compounds in the last 4 quarters, from 200 MG treated (January-November)

Pending EPA MCLs for 6 PFAS Compounds

- EPA still reviewing comments
- Portsmouth response
 - Continued tracking and quarterly sampling of PFAS
 - Currently in compliance with New Hampshire regulations
 - Greenland Well Treatment design currently out to bid
 - \$2.5 million budget
 - Approached Air Force about treatment design for Portsmouth/Collins wells