

Memorandum

February 2, 2023

To: Commissioners of Poolesville

From: D. Wade Yost, Town Manager

RE: PFAS Remediation

Commissioners,

Several developments have occurred as detailed below regarding PFAS. I will be requesting a budget amendment on Monday February 6th to begin the remediation process.

Town Engineer John Strong, Senior Scientist Kathy Mihm and I have reviewed different treatment options and are recommending performing a pilot test with the dual-bed HPAF-3000 series systems (with manifolds as pictured) available for rent that can be shipped with 3-4 weeks. The system by Tetrasolv Filtration uses granular activated carbon. I have also outlined below the Initial costs for rental/freight and ongoing change-out including Labor/Freight for their crew to be on-site for carbon change-out and replacement with virgin carbon, if needed.



Initial Cost:

- Monthly Rental Fee \$5,000
- Initial Carbon Fill/Disposal \$17,250
- Freight to site \$5,000
- GAC Change out \$12,000
- Labor/freight for change out \$9,200
- Rental skid return freight \$5,000

MDE requires this study and collected data to ensure that the filtration units are effectively removing the PFAS. We will apply for a permit from MDE to allow the equipment to be installed and are in the process of collecting and submitting that required data. It is anticipated that the test could run for 6-months or more.

In addition to just testing the media, this will allow well #3 to pump into the system. Kathy has developed a water model that suggests potential migration of the PFAS if the well is not pumped. Potential migration would be towards well 9. Fortunately, well 9 has a filtration unit for alpha emitters and that absorption media acts very similar in treating PFAS. We will be doing pre and post filtration analysis on well 9 for data collection purposes.

John will need to develop a plan for a building expansion for the long term, but we may consider a temporary structure adjacent to the existing well house for the short term.

If all test goes as expected, we can then add permanent treatment filtration units to both wells 2 and 3.

To set all this in motion, we will need to establish a budget line item "PFAS Remediation: in account 3130 with an FY2023 budget of \$95,000.

The breakdown of the budget as follows:

- Rental filtration units/media/freight \$45,000
- Sampling, water models, pilot testing, reports to MDE \$25,000
- Engineering \$15,000
- Building addition \$10,000

Further costs will be itemized in the FY24 Budget as it is developed, and we begin that process in March. Grant applications have also been submitted to MDE to assist in the funding.