

Water Treatment and Reuse: Novel Oxidation Wastewater Treatment System

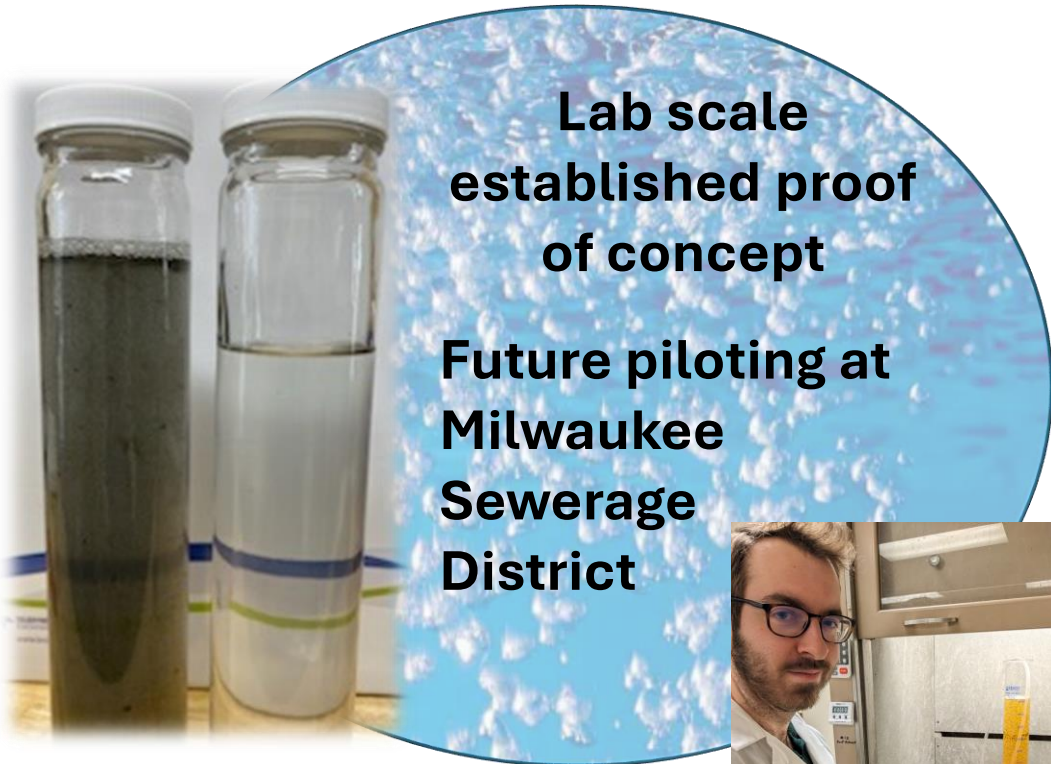


Fig. 1: Sewage (left) and treated water (right)

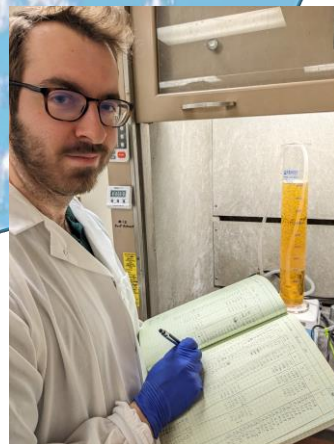


Fig. 2: Bench scale testing by Alex Booton



Fig. 3: Pilot-Scale System at Milwaukee Treatment Plant

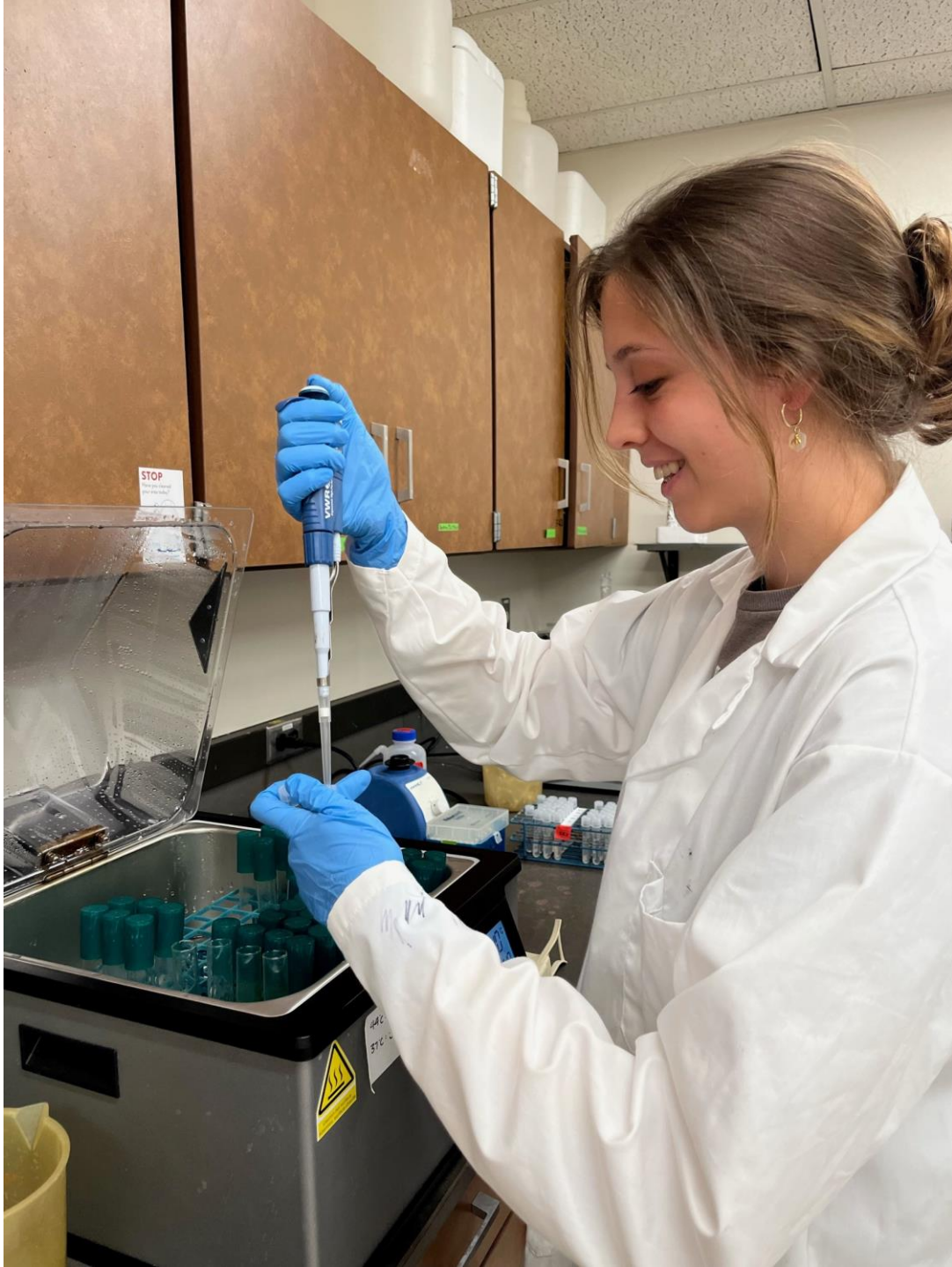
Achievements to Date

- Demonstrated excellent organic, nutrient, and pathogen removal at lab scale with a novel oxidation system
- Developed guidelines to measure virus removal and initiated testing in water reuse systems
- Partnered with WI start-up, Rapid Radicals Technology, Inc.

Looking Ahead

- Performing large-scale verification at Milwaukee wastewater treatment plant
- Verifying technology performance for public health protection

PhD student Samantha Juedemann analyzing viruses.



Virus research team, including Maryam Samsami, Samantha Juedemann, Shadi Tavakoli Nick, and Jennifer Lavin