

## New Equipment



## Case Study: Hayden's Place



**MBBR Tankage**



**UV Disinfection System**



**Blowers**

Upon acquiring the Hayden's Place Wastewater Treatment Facility, a comprehensive improvement plan was implemented to enhance the facility's performance, operational efficiency, and regulatory compliance. The focus was on upgrading critical components of the treatment process and infrastructure to ensure effective wastewater management.

A key part of the improvement plan involved rehabilitating the aeration system within the treatment tanks. This was achieved through the installation of new blowers, significantly boosting the biological treatment process and increasing overall efficiency. Additionally, a micro Moving Bed Biofilm Reactor (MBBR) was installed in the existing tank to further enhance biological treatment.

To improve the facility's phosphorus removal capabilities, a dosing pump was added to facilitate the precise addition of aluminum sulfate, optimizing the removal process. The flow meter was also replaced to maximize volume measurement accuracy, ensuring more reliable data for monitoring and reporting.

Critical infrastructure repairs were carried out, including repairing force main breaks and manholes, enhancing the reliability of the wastewater collection system. To further support operational improvements, remote monitoring technology was installed, allowing for more efficient and responsive management of the facility.

The disinfection process was upgraded with the installation of a new single UV disinfection system and a new UV disinfection unit, effectively reducing pathogens and ensuring compliance with stringent disinfection standards.

These targeted enhancements have significantly improved the performance and reliability of the Hayden's Place facility. The upgraded aeration system, enhanced phosphorus removal, and robust disinfection process ensure that the facility meets higher standards of wastewater treatment and regulatory compliance. These improvements reflect a strong commitment to operational excellence and environmental stewardship, providing the community with a more reliable and effective wastewater management system.