



Case Study: Sebastian Lake

Before



Since acquiring the Sebastian Lake wastewater facility, significant improvements have been made, marking a significant stride forward in ensuring effective wastewater treatment and management. Prior to these improvements, the facility grappled with various operational challenges, impeding its capacity to deliver safe, reliable, and environmentally responsible service to the community.

The floating aerator at the facility had failed, compromising its ability to provide essential aeration in the treatment process. Additionally, the tertiary sand filters were in dire need of thorough cleaning to uphold their effectiveness in removing solids from treated wastewater. Furthermore, the absence of remote monitoring at lift stations left the system vulnerable to potential backups and malfunctions without immediate notification to operators, jeopardizing the overall reliability of the treatment process.

Recognizing these issues, a comprehensive plan was enacted to improve the Sebastian Lake wastewater facility. Both floating aerators were replaced to provide proper aeration for enhanced wastewater treatment. Simultaneously, meticulous cleaning of the tertiary sand filters ensured their optimal performance in filtering out contaminants.

After



Moreover, a crucial step was taken to install remote monitoring systems at each lift station, alongside flow monitoring at the treatment facility. This technological advancement enables real-time monitoring and data analysis, empowering operators to swiftly identify and address potential issues before they escalate. Through proactive monitoring of lift stations and treatment processes, the risk of backups and system failures is significantly mitigated, thereby enhancing operational efficiency and reliability.

These improvements signify a commitment to operational excellence, enhancing wastewater treatment reliability and environmental stewardship. By leveraging technological advancements and strategic investments, Sebastian Lake's facility is primed to meet community wastewater treatment needs effectively, ensuring long-term sustainability and public health.