

Before



Case Study: Cherrywood Lone Oak

At the time of acquisition, the Cherrywood wastewater lagoon system was operating with **aging equipment that could no longer effectively treat wastewater**. The system had a history of **exceeding permit limits**, with insufficient treatment performance allowing inadequately treated discharges to contaminate nearby streams.

To address these challenges, Magnolia Water implemented **targeted upgrades** to restore compliance and improve overall system performance. An **MBBR and clarifier system were installed**, significantly enhancing the biological treatment process and solids separation. These improvements provided the necessary treatment capacity to **meet regulatory requirements** and stabilize operations.

In addition, the **chlorine contact tank was replaced to ensure proper disinfection** of treated effluent. This upgrade strengthened the system's ability to consistently meet disinfection standards and **protect downstream water quality**.

Following these improvements, the system's performance improved dramatically. **Average BOD levels dropped by more than 84%**, bringing the facility back into **compliance** and restoring **safe, reliable wastewater treatment**.

Today, the Cherrywood system operates as a stable and dependable facility, reflecting Magnolia Water's commitment to **improving performance, protecting the environment, and delivering reliable service** to the community.

After

