



## Case Study: Payne

Before



After



At the time of acquisition, the Payne wastewater system was experiencing ongoing treatment challenges, with a history of **repeated permit violations** and inconsistent performance.

To address these issues, Magnolia Water implemented **targeted upgrades** to improve treatment reliability and bring the system back into compliance. An **MBBR and clarifier system** were installed, enhancing biological treatment and solids removal. In addition, the **chlorine contact tank** was replaced to ensure proper disinfection and strengthen overall treatment performance.

Following these improvements, the system saw significant gains in performance. **Average BOD levels were reduced by more than 80%**, while **solids levels decreased by nearly 80%**, restoring compliance and improving operational reliability.

Today, the Payne system operates as a **stable and dependable wastewater treatment facility**, reflecting Magnolia Water's commitment to **targeted infrastructure improvements** and **long-term system performance**.