



Case Study: Green Bayou

Before



At the time of acquisition, the Green Bayou wastewater treatment facility was **structurally compromised** and well beyond its useful life. Much of the internal steel components—including tanks, handrails, and the bar screen—were severely **rusted and deteriorated**. The site was further impacted by broken fencing, overgrown vegetation, and fallen debris, creating both **operational and safety concerns**.

The facility's condition contributed to ongoing treatment challenges and **repeated permit violations**, underscoring the need for a comprehensive solution rather than incremental repairs.

After



To address these issues, Magnolia Water **fully replaced the existing plant** with a **new steel treatment facility**. The original structure was decommissioned and removed, and the disturbed areas were restored—resulting in a **safer, more modern, and fully functional treatment site**.

With the new facility in place, treatment performance improved significantly. **Average BOD levels dropped by nearly 90%**, restoring compliance and ensuring reliable wastewater treatment.

Today, the Green Bayou system operates as a **stable and efficient facility**, reflecting Magnolia Water's commitment to modernizing infrastructure, improving performance, and **protecting the communities it serves**.