

Before**After****Case Study: Leon Springs**

Upon acquiring the Leon Springs wastewater system in Bexar County, CSWR-Texas discovered significant equipment failures and infrastructure decay. The system was beleaguered by damaged aeration basins, failing aerators, unreliable electrical systems, deteriorating lift station piping, and a severely corroded steel door in the chlorination room.

To address these issues, CSWR-Texas implemented a series of improvements, including the installation of remote monitoring hardware, an overhaul of the disinfection system, recoating of lift station piping, and the replacement of failed pumps. We also completed key clarifier repairs, including updates to the motor, drive assembly, catwalk, and skimmer arm. Additionally, the tertiary treatment system received a new filter, and the drying beds were rehabilitated, with above-ground equipment recoated as needed.

In collaboration with the community, CSWR-Texas also facilitated the reuse of treated effluent for local ponds and a nearby golf course, enhancing sustainability. With these operational upgrades, CSWR-Texas is evaluating the potential for future system expansion in line with original Phase II design. This could include improvements such as enhanced aeration, prechlorination, expanded tertiary filtration, and pre-screening to ensure long-term, reliable service as the community continues to grow.