



TRES RÍOS WATER RECLAMATION FACILITY

The Tres Ríos Water Reclamation Facility (WRF) – formerly named the Ina Road Wastewater Reclamation Facility – has a capacity of 50 million gallons a day (MGD). The upgrade and expansion of the Tres Ríos WRF was particularly challenging because during construction, the facility had to continue to operate without interruption. Automation plays a critical role in this state-of-the-art facility

The Tres Ríos WRF features:

- An increase in capacity from 37.5 MGD to 50 MGD
- The replacement of a 1970s high purity oxygen process with six trains of a modified five-stage Bardenpho process with bioreactors and clarifiers
- Upgrades to the 2006 Biological Nutrient Return Activated Sludge (BNRAS) system
- Additions to the anaerobic digestion system
- Centralization of sludge handling and treatment systems for the entire County
- Expansion of the headworks, including screening, pumping and grit removal systems
- Expansion of the primary treatment processes
- Construction of three gravity belt sludge thickeners
- Construction of two new anaerobic digesters
- Expansion of disinfection facilities
- Upgrade of three sludge dewatering units
- Construction of an operations control center
- Construction of a new warehouse
- Upgrade of the existing administration building
- Upgrade of the central maintenance center
- Construction of facility-wide odor control systems
- Construction of a facility-wide security system;
- Improvements to landscaping and security fencing