



AGUA NUEVA WATER RECLAMATION FACILITY

The Agua Nueva Water Reclamation Facility (WRF) replaces the now-decommissioned Roger Road Wastewater Treatment Facility.

The Agua Nueva WRF has a capacity of 32 million gallons a day (MGD).

RWRD decreased the amount of nutrients (ammonia and nitrogen) in the reclaimed water produced at the Agua Nueva WRF.

The facility meets new water higher quality standards for discharge into the Santa Cruz River and provides an improved and higher quality reclaimed water to the City of Tucson's Reclaimed Water System.

The project delivery method - Design Build Operate - saved Pima County more than \$75 million in construction costs. The Agua Nueva WRF is owned by Pima County but will be operated by CH2MHill for 15 years. At the end of 15 years, Pima County has the right to extend CH2MHill's contract for an additional five years or take over operations of the facility.

The Agua Nueva WRF features

- Headworks structure for raw wastewater screening and pumping
- Grit removal ahead of innovative dissolved air flotation thickeners
- Four modified 5-stage Bardenpho wastewater treatment system bioreactors and clarifiers
- Disk filters
- Sodium hypochlorite disinfection
- A sludge pumping station for conveyance of sludge to the Tres Ríos WRF by a dedicated force main
- Plant-wide odor control systems
- Plant security system
- Landscaping and external architectural screening walls pleasing to the adjacent communities