

Federal Energy and Water Management AWARDS

2014

Top Left: Hurlburt Field advanced wastewater treatment graywater plant



Bottom Left: The Hurlburt Field advanced wastewater treatment plant's reclaimed water storage tank holds 500,000 gallons of treated water for use at various locations on Hurlburt Field.

Right: Distribution pumps for advanced wastewater treatment plant. Purple pipes signify the use of reclaimed water.



1st Special Operations Civil Engineer Squadron U.S. Air Force Hurlburt Field, Florida

In FY 2013 Hurlburt Field Air Force Base modified its water reuse system to improve capacity, resulting in savings of 13 million gallons of water in only four months—a 9% reduction from the previous year. The \$4.9 million project added more than 40,000 linear feet of piping and a 500,000 gallon storage tank to the existing distribution system, increasing the amount of water available for reuse.

Previously the system reuse capacity was limited to only 10,000 gallons per day, with 98% of the wastewater treatment plant effluent being discharged to permitted wetlands after being treated and de-chlorinated. The new system

maximizes reuse of wastewater treatment effluent, decreasing the stress on local drinking water supplies, promoting the recharge of the groundwater within the local aquifers, and reducing the possibility of saltwater intrusion within the area.

Hurlburt now uses the treated reuse water for irrigation, aircraft and vehicle washracks, fire training, and cooling towers. In addition, the base can provide up to 200,000 gallons per day of excess water to the local community for reuse. Overall the program has reduced Hurlburt Field's water intensity by almost 20% from the 2007 baseline.