



PRIVATE WATER SYSTEM

Well depth:	1200 feet.
Estimated sustainable yield of aquifer:	7 million gallons per day, according to the Water Resources Protection Plan, State Commission on Water Resource Management, June 1990.
Well pump:	40-horsepower submersible Grundfos pump. The system is designed to accept a pump of 60 horsepower.
Pump controller:	Variable speed drive that allows “soft start” and adjustable flow rate to match demand, thus enhancing pump life. Upgraded in 2008.
Water flow rate into storage tanks	Pump is rated at 65 gallons per minute; actual output may vary with conditions.
Water treatment:	Chlorination at well head site.
Water quality:	Meets all EPA and Hawaii State Department of Health requirements.
Storage capacity of lower tanks:	60,000 gallons in two 30,000-gallon glass-lined steel tanks that can be shut down independently to allow for maintenance with no service interruption.
Storage capacity of upper tanks:	93,000 gallons in two 46,500-gallon 40-mil vinyl-lined steel tanks, yielding a total water storage capacity of 153,000 gallons.
Distribution Lines:	Water is pumped to the two lower tanks, and then pumped to the upper tanks by two booster pumps. From the upper tanks, water flows through a 6-inch ductile iron distribution pipe that terminates at Omaopio Road. (Proximity to the road offers the option of connecting to a possible future county water main.)
Amount of water available for each lot:	The Omaopio Ridge CC&Rs suggest a maximum of 4,000 gallons per day for each lot.
Well driller:	Wailani Drilling, Maui’s most experienced licensed drilling company.
Water system designer:	Austin Tsutsumi & Associates , among Hawaii’s top ten engineering firms, and a leader in the field of water system design.
Water system maintenance:	The Pural Water Specialty Company , Inc., of Wailuku has been under contract to maintain the entire system since its inception. Technicians conduct periodic testing for water quality and regular preventive maintenance.
Mechanical and electrical maintenance:	The Water Controls company of Kula maintains the troubleshooting systems and communication mechanisms between the pumps and the tank levels.
Performance record:	As of June, 2010, the well pumps have pumped a total of over sixty million gallons since November, 2001.