

Maui County Water Use and Development Plan

Upcountry Candidate Strategies

Upcountry Water Advisory Committee Meeting #6 - September 25, 2006

The Upcountry District has several interconnected sub-systems:

- Upper Kula System: Olinda Treatment Plant => Upper Kula Transmission Line
- Lower Kula System: Piiholo Treatment Plant => Lower Kula Transmission Line
- Makawao System: Kamole Treatment Plant => Makawao and Pukalani
- Haiku System: Kaupakalua and Haiku wells => Lower Kaupakalua Haiku Area

Although each of these subsystems has its own supply and economics issues they are interconnected and interrelated.

Several candidate strategies will be analyzed and presented at the Upcountry Water Advisory Committee Meeting #6. Each candidate strategy will include, for each subsystem, some combination of the following specific resource options:

- Expanding stream water diversion capacity
- Improving stream water collection system efficiency
- Expanding raw water storage capacity
- Expanding water treatment plant capacity
- Awalau/Opana source development (treatment and storage) options
- New basal aquifer wells
- Perched water well development
- Interconnection with the Central District system
- Conservation programs (Demand Side Management)
- Transmission system leak reduction
- Stream restoration measures
- Watershed protection and restoration measures
- Well development policies and regulation
- Wellhead protection ordinance
- Landscape ordinance
- Drought water use restrictions
- Water rate design and pricing policies

Because of the complexity of interrelationships of the Upcountry District water sub-systems, the analysis of the Candidate Strategies presented at the meeting will be less rigorous than the analysis presented regarding the Central District system. The integration modeling analysis methods used and presented at the recent Central District candidate strategies meeting will be adapted to the Upcountry system in the next Final Candidate Strategy phase of the WUDP process.