

EID Water Conservation and Management Plan (2013)

exception of the Pinecrest area. Since Pinecrest is at a higher elevation than the two existing reservoirs, it is likely that if the Pinecrest area is served, another reservoir with a capacity of 250,000 or more gallons will be required to serve the higher elevation. The EID capital facilities plan anticipates that a Pinecrest addition would be integrated into the existing system.

4. Distribution System - Oaks and the two expansion areas have water lines, fire hydrants, meter boxes, pressure reducing valves where appropriate and various and sundry connections and fixtures in place and is a viable operating system.. The main pipelines are 8 inches in diameter. The system provides from 1,500 to 2,000 gallon per minute flow with the exception of one spur known as Old Oak Road which has up to five homes on it that may not receive a full 1,000 gallon per minute flow. An eight inch line with 5 fire hydrants was installed in an Easterly direction from Brigham Fork Circle (the furthest East road in Oaks) by Steve Creamer in 2000 as a condition of a contract to provide water services to Creamer by EID. That pipe is now part of the distribution system and connects the existing system, the new reservoir, and the Lower Burr Fork/Killyon homes. The 2006 main canyon water line construction added 3.3 miles of 8" water main down the main canyon road from the intersection of Killyons Canyon and Lower Burr Fork down to Skycrest Circle along with appropriate fire hydrants, pressure reducing valves, and services for about 175 homes.

5. Telemetry System - EID's telemetry system was installed by EID in 2000 for the Oaks water system was updated in 2003 to include the new reservoir and pump house and includes an radio relay device located high on the mountain from which there is visual contact with all five facilities and will also include the new well. This system communicates via radio transmission and measures and records well depths, reservoir levels, pumping volumes, rates of pumping and electrical use. The pumps are selectively prompted to turn on automatically when the reservoir level gets below a prescribed level and turn off automatically when the level gets up to a prescribed level. Levels are as set by an operator on a computer in Well house #2 or on-line. Permanent hard copy tables and graphs are created and emailed to the managers and are kept in EID files in addition to the electronic files created by the computer programs in use. EID's manager and Aqua Environmental Services personnel monitor the system from their homes or offices thru the computer on a daily basis to assure the system continues to operate properly. The system includes a dial up system to warn the operator in case of unusual use, break in service etc.

C. Current Water Use and Determination of Future Requirements - Water Management Issues and Goals:

1. Use and Delivery - Both Oaks and Emigration Place Subdivisions have community water delivery systems. The Oaks and expanded service areas and Emigration Place systems have water meters. Other homes not connected to the two existing systems generally do not have meters unless they have been voluntary installed by owners and are read and monitored only by the owners. EID does have a program wherein they lease water rights to approximately 20 residences in the canyon. EID leases .75