

THE WATER SYSTEM: DESCRIPTION AND OPERATION

The water system was established at the time the lake community was developed in the late 1920's. The system consists of four major components:

- Two wells that tap into the aquifer at a depth of 220 feet (pump house 2) and 150 feet (pump house 1). A third well was drilled but is not presently needed or in use.
- Two pump houses that contain pumps, well controls, chlorine injection equipment, and monitoring equipment.
- Three storage tanks that provide gravity feed to deliver water to residents. One is a horizontal tank that holds 22,000 gallons that was installed in 1975. It was previously used in a brewery. The other two are vertical tanks that each holds 10,000 gallons. These were installed nearer to when the system was started.
- Distribution system, comprising pipes under community roads and smaller gauge pipes that carry water to individual residences and community facilities. The distribution pipes are mainly 4 inch cast iron that is in very good condition. The balance is steel, which will have to be replaced in the near future.

The water system is approximately eighty-five years old. As needed, sections of the distribution system have been replaced when leaks have been found. Most but not all buildings in the community have curb stops. During power outages residents are asked to conserve water, and, as necessary, a generator is leased to power the system. A history of annual expenditures to provide water is shown in Appendix A.

The management of the water system is currently the responsibility of Rick Barrett, the vice president of the Association Board. Technical

oversight of the system and weekly water testing is performed by Agra Environmental, under contract to the Board. Residents who compose the VSA perform daily monitoring and data collection. There is no mechanized or computerized monitoring or data collection, but such system could be added (current best estimated cost is \$20,000)

The cost of water is recovered from residents as part of Association fees. There are no individual meters. All residents are charged the same amount regardless of usage. On average, water costs each household approximately \$497¹ annually.

Water quality standards are set by the New Jersey Department of Environmental Protection (NJDEP) and are monitored by Agra Environmental. There is no direct involvement with the New Jersey Board of Public Utilities (NJBPU) because water is not sold outside the lake community and the cost is covered by dues.

¹ See Appendix D for details of calculation