

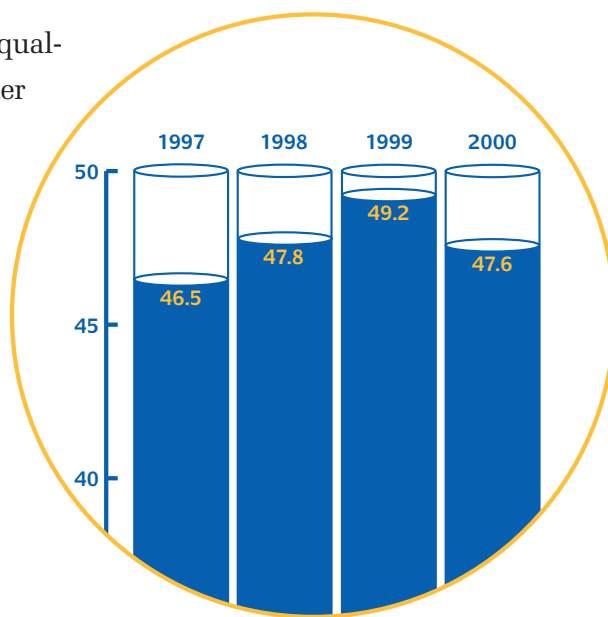
Water Quality and Production

In December 2000, the Corbalis Water Treatment Plant became the first water treatment plant in Virginia, and one of the few in the nation, to treat its water with ozone. A powerful oxidant and disinfectant, ozone gas is bubbled through the settled water in large ozone contact chambers. Ozone treatment adds an additional barrier against waterborne pathogens such as *Cryptosporidium* and *Giardia*, significantly reduces dissolved organics, lowers the amount of chlorine that is needed to treat water, and ultimately improves the quality of the drinking water.

To ensure a high level of water quality, the Authority monitors water sources and the distribution system very closely, testing three to four times more than the mini-

mum required by law. The water, which is tested at the Authority's laboratory at the Corbalis Water Treatment Plant, meets or exceeds every water quality standard. The Commonwealth of Virginia certifies the laboratory for drinking water analysis.

The Authority's Annual Water Quality Report for 2000 was sent to customers in June and posted on the Authority web site: www.fcwa.org.



Annual Water Production
(Billions of Gallons)



Our water meets or exceeds every water quality standard.

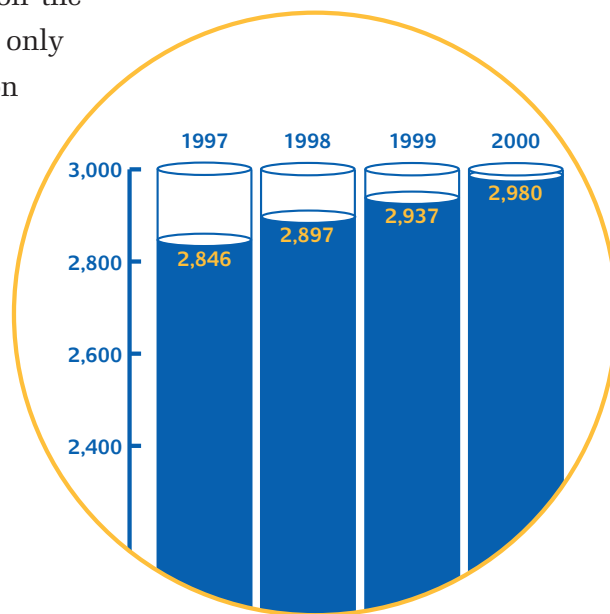
Planning and Engineering

In 2000, a \$566.8 million Ten-Year Capital Improvement Program was established to maintain and improve our water system. An important part of this Program is the construction of the Frederick P. Griffith, Jr. Water Treatment Plant, scheduled to begin operation in 2003. Construction progress in 2000 included completion of rough grading and the beginning of concrete work on several structures. Approximately 2,500 cubic yards of concrete were poured in the construction of filter basins, a clearwell, and operations buildings.

By the end of 2000, progress on the Griffith Raw Water Facilities left only 200 feet of mining to be done on the 700-foot tunnel under the

Occoquan River that will carry water from the reservoir to the treatment plant. The nine-foot diameter tunnel being dug under the Occoquan River will hold an 84-inch-diameter raw water pipe, electrical and control cable conduits, that will be encased in concrete.

Additionally, work began on designs for a new Central Laboratory and Visitor Education Center at the main entrance to the Corbalis Water Treatment Plant.



Water Mains in Service
(Miles of Pipe)