



Cobb County, GA SCADA System

Client: Cobb County Water System

Location: Marietta, GA



System Features

- Distributed PLC's •
- MAS Radio •
- Data Warehousing •
- Ethernet •
- TCP/IP •
- Modbus •
- 2500 Points •
- iFIX •

The Cobb County Water System is a major utility responsible for water distribution, wastewater collection and treatment, storm water management and solid waste disposal services for Cobb County, GA. The Water Services Department treats seventy-three million gallons of wastewater daily collected through 2,700 miles of sewer lines running throughout this fast growing county.

Under a prime contract, Transdyn built a Supervisory Control and Data Acquisition System (SCADA) that manages the collection system which transports wastewater from retail and wholesale customers to four major wastewater treatment facilities.

Redundant SCADA servers and eight distributed workstations located at the Operations Center, Administration Building, and each of the four plants manage thirty-four vital lift stations located throughout a 350 square mile service area. Programmable logic controllers (PLC's) monitor and control each remote station. The remote controllers are programmed to provide both supervisory and stand-alone control of each station. The remote controllers communicate with the servers over a sophisticated radio system. A combination of licensed and spread spectrum microwave radios provide communications over undulating terrain.

Managed by iFIX SCADA software, the system was integrated with the County's existing Information Services Network to provide communications from each of the plants and the Administration building to the SCADA servers. Historical data is stored for reporting and analysis on a separate historian server.