

Project: **Wastewater Supervisory Control and Data Acquisition (SCADA) Replacement**

Department: Wastewater

The wastewater department depends on a Supervisory Control and Data Acquisition (SCADA) system to monitor pump stations for proper operation. The SCADA system alerts operators to abnormal conditions and allows for staff to monitor pump run time anomalies that could indicate a trouble situation. Further, the SCADA system alerts the police dispatch center after work hours so that dispatchers may call out wastewater staff in the event of an alarm that indicates a pump failure or other trouble condition. The current SCADA system has been in operation since the late 1980's/early 1990's and is becoming more unreliable as time goes on. The department has been slowly phasing in upgrades associated with other projects to improve the treatment plant or pump stations. This project contemplates the upgrade of the entire system in one project to get the work completed and achieve a totally reliable SCADA system. The project is estimated to cost \$250,000 and will upgrade monitoring, alarming and notification equipment in 13 pump stations in the system.

Staff spends time maintaining the older SCADA system that could be spent on other maintenance and operation activities. The system is very valuable in locating and diagnosing system problems, which leads to fewer emergency repairs which are generally very expensive.



Existing SCADA monitoring numerous pump stations



New SCADA system monitoring PS5, PS1, PS2 and WWTP