

PUBLIC WORKS OPERATIONS – WATER/SEWER

The Operations – Water/Sewer Division is responsible for the operation and maintenance of the Village water and sewer systems, and the storm water conveyance system. The Village has approximately 7,500 residential and 700 commercial services, for a total of 8,200 utility billing addresses, of which approximately 150 are for properties outside of the Village limits. Duties include: monitoring of distribution and storage of potable water and associated regulatory reporting requirements; repair of water mains, valves, hydrants, customer water service lines and valve boxes located in the public right-of-way; hydrant flow testing; water valve exercising; water meter installation, repair and testing; water quality testing; manhole, vault, and catch basin repairs; sanitary sewer lift station maintenance; sanitary and storm sewer system cleaning and televising; and responding to residents requests for service and assistance.

Water Production, Pumping, Storage, and Distribution System

- Two pressure adjusting stations located where Glen Ellyn receives Lake Michigan water from the DuPage Water Commission.
- Two 1,000,000 gallon ground storage reservoirs and two elevated storage tanks of 500,000 and 750,000 gallon capacity.
- Two stand-by ground water wells and two water pumping stations.
- 147 miles of water mains; 1,265 fire hydrants; 1,368 water main line valves; and 8,200 water meters.
- Supervisory Control and Data Acquisition (SCADA) monitoring and control system.

Sanitary Sewer System

- 85 miles of sanitary sewer mains.
- 4 sanitary sewer lift stations.
- Approximately 2,000 manholes.

Storm Sewer System

- 70 miles of storm sewer mains.
- 3,165 storm sewer inlets and catch basins.
- 1,200 storm sewer manholes.

Utilities Division Accomplishments for FY08/09

1. Tested and calibrated 15 water meters that are 2 inch and larger in diameter.
2. Met all state and federal drinking water regulatory requirements.
3. Contracted the video taping of approximately seven miles of sanitary sewer main and prioritized the maintenance and reconstruction needs of these mains.

4. Pressure cleaned approximately 10 miles of sanitary main.
5. Vacuumed 650 of the Village's 3,165 storm sewer system catch basins.
6. Repaired 29 water main breaks, 6 fire hydrant replacements, 4 hydrant repairs, 6 water main valve replacements, 10 water service line repairs, 3 sanitary sewer repairs, 1 storm sewer repair, and 95 manhole and structure repairs.
7. Updated the Village's Water Atlas.
8. Marked sanitary sewer and water main locations for 4,476 JULIE requests.
9. Restored 155 utility excavation sites.
10. Replaced 5,412 feet of old 6 inch water main with 6,758 feet of new 8 inch, and 118 feet of new 6 inch water main during FY 2008/2009 construction projects to improve fire protection and reduce water main breaks.
11. Rehabilitated and painted the Cottage Avenue 750,000 gallon water tower.

Utilities Division Goals and Objectives for FY09/10

1. Upgrade the Public Water Supply Production and Distribution computer automated SCADA system.
2. To further reduce unmetered water loss, we will test for accuracy and repair another 20 meters that are two inch in diameter or larger.
3. Conduct a village wide leak survey of the Water Distribution System to further reduce unmetered water loss.
4. Continue the on going research to identify the sources of clear water inflow in to the sanitary sewer collection system and develop viable plans to mitigate this inflow.
5. Install high security tamper resistant hatches and air vents on Wilson and Newton Reservoirs.
6. Drain, clean and perform a structural analysis of the interior of the Newton Avenue 750,000 gallon water tower.
7. Drain, clean and inspect Newton and Wilson reservoirs.
8. Provide Public Works coordination of work with the engineering consultants and engineering staff to assure that FY09/FY10 projects are built on time and with minimal disruption to the

residents.

9. Pressure clean 17 miles of sanitary sewer main.
10. Pressure clean 5 miles of storm sewer main, and vacuum 650 storm sewer catch basins (20% of the 3,165 total basins).
11. Televis 7 miles of sanitary sewer main and prioritize the maintenance and reconstruction needs of these mains.
12. Select and begin to train two members of Public Works staff to be competent operators of the computerized SCADA system; the water production plants, and the sanitary sewer lift station systems.
13. Continue cross training Operations Division staff on water distribution and sanitary collection system operations and maintenance.
14. Continue training to meet FEMA / NIMS requirements, and to train with DuPage Department of Homeland Security as scheduled.
15. Train with Glen Ellyn Fire Department and MABIS District 12 on trench rescue using the Public Works Vector #230.