

## Municipal Utilities

The current status and future plans for municipal utilities impacts the town's capacity for future growth. Municipal Utilities includes water, sewer, sidewalks, and street lights

### Water Districts

#### District No. 1

The existing Town Water District #1 was approved by the State of New York in 1968 and was constructed shortly thereafter. The source of groundwater is the Newfield Aquifer along with two 8-inch drilled wells approximately 146 feet in depth, located at Pine Circle that tap into this supply. Each well is equipped with a 200-gpm vertical turbine pump with a 20 horsepower electric motor. The well water is treated with a blend of inorganic phosphates to control deposition of mineral iron as well as sodium hypochlorite for disinfecting. Water is pumped through the distribution system into the 2000,000-gallon water storage tank on Trumbulls Corners Road. Due to the wide variation in ground surface elevations, there are two pressure zones created by a pressure reducing stations station. All of the system south of the intersection of Main Street and NYS Route 13 floats with the Trumbulls Corners tank. North of that point, the pressure is reduced by a pressure reducing value (PRV). The majority of the 41,200 feet of distribution mains are constructed of 6-inch diameter asbestos cement pipe. The present consumption is well within the original design.

#### District No. 2

The extension of municipal water service to Water District No. 2 went into operation in November 2006 and required the installation of over 21,100 feet of 10-inch and 4,700 feet of 8-inch distribution mains together with gate valves, fire hydrants and curb services. One 150,000-gallon and one 308,000-gallon water storage tanks within isolated pressure zones connect to the water mains within Water District No. 2 with the source supply in Water District No. 1. To supplement the capacity of the groundwater supply at Pine Circle, two additional wells were developed in the Newfield Aquifer. Connected to the water mains in Water District No. 1, to supplement the capacity of the groundwater supply at Pine Circle, two additional wells were developed in the Newfield Aquifer. Connected to the water mains in Water District No. 1, the wells proved redundancy to single source system.

### Design Estimates

Water District	Design Average Day Demand (gpd)	Design Maximum Day Demand (gal)	Maximum Hourly Demand (gpm)
Water Dist #1	100,000	144,000	200
Water Dist #2	96,000	150,000	208
Total	196,000	294,000	408

### Sewer System

#### District No. 1

The Newfield District operates a community septic system established in 1984. The system receives and treats septic flows from 180 homes and businesses and from the Newfield Central School. Each home, business and school has its own septic tank. Wastewater only from contributing septic tanks is transported through a collection system via gravity flow and four intermediate pump stations to a central pump station located on Depot Road, which pumps the wastewater to the District's treatment facility. The treatment facility consists of 8 leach fields that are fed separately by a dosing chamber that receives all wastewater flows pumped from the central station. The dosing chamber houses two 7 horsepower electric pumps witch pump the wastewater to the

leach fields. The district's collection system consists of approximately 140,000 linear feet of forced mains ranging from 11/4 to 6 inch diameter, 12 manholes and approximately 40 cleanouts.

The current treatment facility is permitted for a maximum 30-day average flow of 0.30 million gallons per day (mgd) or 30,000 gallons per day (gpd). Influent flows pumped to the treatment facility are calculated on a weekly basis by reading the cumulative run hours for the two pumps at the central station for the affected period by multiplying the run hours value times a flow rate of 10,500 gallons per hour, which equates to a design pumping capacity of 175 gallons per minute. Currently the District exceeds 95 percent of the treatment facility's permitted 30-day average flow limit, this means no additional septic installation will be authorized at this time.

**Sidewalks:**

Capacity – There are approximately 4,000 square feet of sidewalks in the Town located along Main Street.

Current Maintenance – Town subcontracts snow removal, current with Robert Evil(sp?) Town would replace any blocks if necessary.

Future Plans – There are currently no plans to increase or alter the existing sidewalks

Source of information: Telephone conversations with Glenn Casterline and Rodney Williams 12/1/08

**Street Lights:**

Capacity – There is currently one street light district and on street at large district

Number of lamps in street light district 112

Number of lamps in at large district 20

Current Maintenance – The town leases the street lights from NYSEG. NYSEG is responsible for bulb replacement and basic maintenance.

Future Plans – There are currently no plans to increase or alter the existing light districts

Source: Telephone calls with Kathy Crance, Town Clerk; NYSEG, Bob Walsh, NYSEG Bill