

City of Chicago Department of Water Management

**Randy Conner
Commissioner**

Rahm Emanuel
Mayor



Chicago Water System

- 🔥 **Monitor Lake Michigan water quality 24/7**
- 🔥 **Drinking water treatment**
 - 🔥 Water Quality (Microbiology, Chemistry, & Microscopy) & Water Treatment
- 🔥 **Water distribution system maintenance**
 - 🔥 Water Pumping, Operations & Distribution, & Engineering
- 🔥 **Combined sewer system maintenance**
 - 🔥 Operations & Distribution, Engineering
- 🔥 **Transmit waste water to the Metropolitan Water Reclamation District of Greater Chicago**

Chicago Water System

- 🔥 2 of World's Largest Water Plants
- 🔥 2 Crib Structures
- 🔥 12 Pumping Stations
 - 🔥 9 Electric & 3 Steam Powered
 - 🔥 No Elevated Storage -
Pump "On Demand"
- 🔥 4,300 Water Mains
- 🔥 4,450 Sewer Mains
- 🔥 48,500 Fire Hydrants
- 🔥 205,000 Catch Basins

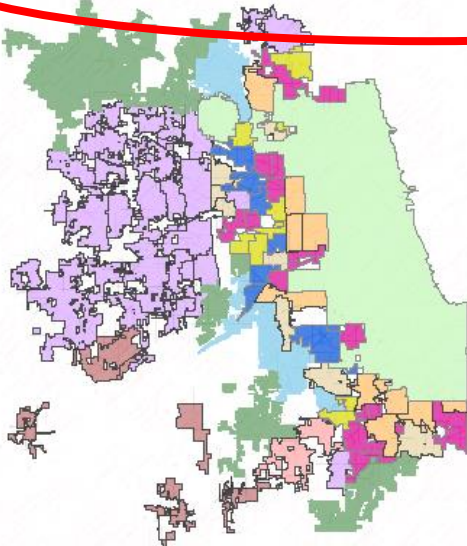


Customers

- 🔥 The City
- 🔥 125 suburbs
- 🔥 Total= More than 5.3 million customers
- 🔥 42% of the population of Illinois

Legend

light green	chicago limits
orange	1909-1920
pink	1921-1930
yellow	1931-1940
blue	1941-1950
tan	1951-1960
light blue	1961-1970
light red	1971-1980
green	1981-1990
light purple	1991-2000
dark red	2001-2004



With 90,000 water accounts



0 100 KM 100 Miles

Green Infrastructure: Springfield Ave. Pumping Station

DWM is converting four pumping stations from steam to electric power saving \$4.5 million each annually.

- 🔥 **Project:** Conversion from steam to electric power
- 🔥 **Cost:** \$70M (including a \$29.6 Qualified Energy Conservation Bond)
- 🔥 **Savings:** \$4.5 million annually
- 🔥 **Duration:** 6 years
- 🔥 **Green Design:** Solar, green roof, permeable landscaping, retaining basins



PRIORITY: Water conservation to reduce the need for treatment.