AGENDA

• Sewer Fund
• Water Fund
• Wholesale Water Customers
SEWER FUND: MAJOR COSTS

• Debt Service
• Operation and Maintenance
• Capital Improvement Program
  • Sewer Rehabilitation
  • Stormwater Management Improvements
  • Sewer repairs on streets being resurfaced
  • Emergency sewer repairs
SEWER FUND: THREE SEWER SYSTEMS

• Combined sewer system is 100+ years old, not sized to handle storm flows

• Relief sewer system constructed in 1990 – 2010 to convey wet weather flow to MWRD’s deep tunnel reservoir system (TARP)

• Storm sewer system constructed in 1980s and 1990s to mitigate flooding in isolated areas
SMALL DIAMETER SEWER REHABILITATION PROGRAM 1987 – 2013
LARGE DIAMETER SEWER REHABILITATION PROGRAM

Sewer Main (36”+ diameter)
- Lined (2.5 miles)
- Unlined (8.3 miles)

- Main Road
- Local Street
- Railroad
- Water
- City Boundary

City of Evanston

1 inch = 0.5 mile
1:31,680
RELIEF SEWER SYSTEM
STORM SEWER SYSTEM
SEWER FUND: STORM SEWER SYSTEM

• Annual Stormwater Management Program will fund “green” components of public improvement projects:
  • Pervious pavement
  • Bioinfiltration areas
• Extend the relief sewer system onto streets that currently only have combined sewer.
In-house initiatives to maximize reliability:

- Drainage structure and pipeline cleaning program – one-third of the City each year
- Closed-circuit televising of sewer mains in conjunction with street resurfacing program
- Regular maintenance of sewer infrastructure
WATER DISTRIBUTION SYSTEM AGE

Water Main Ages
- 100+ years old (51.1 miles)
- 80-99 years old (37.2 miles)
- 60-79 years old (14.4 miles)
- 0-59 years old (54.7 miles)

Key:
- 30” Feeder main
- Main Road
- Local Street
- Railroad
- Water
- City Boundary

1 inch = 0.5 mile
1:31,680
WATER DISTRIBUTION SYSTEM REPLACEMENT NEEDS
In-house initiatives to maximize reliability:

• Fire Hydrant Program – 98% of fire hydrants are <50 years old, all hydrants are tested annually

• Valve Program – 70% of valves are <50 years old, half of the system is tested each year

• Leak Detection Program – Proactively search for water system leaks

• Cross Connection Control Program – Preserving water quality and protecting public health
The plant is well maintained and functions well, but improvements are needed due to its age:

- Plant Reliability Improvements = $3.1 million
- Finished Water Reservoir = $26.1 million
- Intake Improvements = $2.0 million
- Master Meter & Chemical Feed Project = $1.0 million

Other planned improvements:
- Meter Reading System = $2.4 million
- Standpipe Painting and Repair = $2.7 million
WATER FUND: WATER TREATMENT PLANT

Major projects in the last 20 years:

• Intake reliability improvements to prevent frazil ice and mussel build-up
• Asbestos removed from all buildings
• Filter improvements to make needed repairs and increase reliability
• Replacement of 30-year-old SCADA system with state-of-the-art control system
• Chlorine scrubber ensures safety for nearby residents
WHOLESALE WATER: EXISTING CUSTOMERS

• Village of Skokie
  • Became a wholesale customer in 1944
  • Current agreement runs 1997 – 2017
  • Currently paying $0.99/1,000 gal

• Northwest Water Commission
  • Became a wholesale customer in 1985
  • Current agreement expires in 2035
  • Currently paying on average $0.60/1,000 gal
WHOLESALE WATER: POTENTIAL CUSTOMERS
WHOLESALE WATER: ENGINEERING ANALYSIS

• Transmission main feasibility study conducted in coordination with Northwest Water Commission and 5 potential wholesale customers:
  • Lincolnwood
  • Niles
  • Park Ridge
  • Des Plaines
  • North Suburban Municipal Joint Action Water Agency

• Regional transmission main is technically and financially feasible for all but Lincolnwood.
WHOLESALE WATER: OUTLOOK FOR LINCOLNWOOD

- No modifications needed at the Water Plant or in the distribution system.
- A dedicated transmission main would be constructed from Evanston’s South Standpipe.
- City has submitted a proposal to Lincolnwood; negotiations are ongoing.
- Would take about one year to design, permit, and construct the transmission main.
WHOLESALE WATER: OUTLOOK

• Would require a major water plant expansion from 108 mgd to 132 or 214 mgd.
• Meetings continue with Niles, Park Ridge and Des Plaines.
• Morton Grove and Glenview have also expressed interest.
• The Northwest Water Commission has held meetings with these same communities.
• Northwest Suburban Municipal Joint Action Water Agency still expressing an interest.
QUESTIONS?