City of Chicago
Department of Water Management

Bulent Agar
Deputy Commissioner

Andrea R.H. Cheng, Ph.D., P.E.
Acting Commissioner
Overview of DWM
Only 2.5% of Earth's water is freshwater - the amount needed for life to survive

Lake Michigan is the World’s 5th largest freshwater lake

Lake Michigan supplies water for neighborhoods, businesses, recreation, & aquatic habitats

Lake Michigan levels fluctuate in response to many factors
  * Precipitation
  * Evaporation
  * Runoff
What we do

* Drinking water treatment
  * Water Quality (Microbiology, Chemistry, and Microscopy) and Water Treatment

* Water distribution system maintenance
  * Water Pumping, Operations and Distribution, Engineering

* Combined sewer system maintenance
  * Operations and Distribution, Engineering

* Transmit waste water to the Metropolitan Water Reclamation District of Greater Chicago treats wastewater
The City of Chicago
Suburbs
Total population served
  More than 5.3 million customers
  42% of the population of Illinois
Chicago Water System

- 2 Crib Structures
- 2 Largest Water Plants of the Top 10 in the World
- 12 Pumping Stations
  - 9 Electric & 3 Steam Powered
  - No Elevated Storage -
  - Pump “On Demand”
- 4,300 Miles of Water Mains
  - 6 inches to 16 feet in diameter
- 48,500 Existing Water Valves
- ~490,000 Water Accounts
Combined Sewer System transmits waste & storm water to the MWRDGC

- 230 square miles of drainage area
- 4,500 miles of Sewers
  - 8-inch to 21.5 feet in diameter
- 350,000 Structures
10-Year Capital Improvement Program
10-Year CIP Goals

- Replace 880 miles water main
  - Completed over 760 miles
- Rehab ~700 miles of sewer
  - Completed 659 miles
- Line 95,000 structures
  - Completed 88,575

- Design 2 pumping station conversions
  - 2 Designed
- Convert 2 pumping stations
  - 1 Completed
  - 1 Under Construction

Residents
- Fewer main breaks
- Less shut-off time for repairs

Economy
- Good paying jobs to build the system
- Strong foundation for City’s future growth

Homeowners
- Fewer basement backups
- Better water pressure
- Less restoration
What’s on Tap?
Upcoming Water Contracts

- **Design Consulting Services**
  - New Design RFQ
  - $5M / 60 months
  - Advertising 2nd Quarter 2021

- **Western Ave. Pumping Station Conversion**
  - $10M/60 months
  - Advertising 2nd Quarter 2021

- **Program Management RFQ**
  - Planned for 2021
Water and Facilities Improvement Contracts

Upcoming 2021 Contracts

- Topographic survey $4M

- Sawyer Plant
  - Low Lift Pump
  - Chemical Building Roof Replacement
  - Building Roof
  - Boiler Improvements

- Jardine Plant
  - Sediment Force Main

Pumping Stations

- Cermak
  - Standby Generators & Switchgear
  - Lakeview:
    - Electrical & Control Improvements
  - Western:
    - Convert Steam to Electric

- Sawyer Plant
  - Low Lift Pump
  - Chemical Building Roof Replacement
  - Building Roof
  - Boiler Improvements

- Jardine Plant
  - Sediment Force Main
Sewer Improvement Opportunities

IEPA Funded

Geopolymer Rehabilitation
- $30-40 Million Total
- 3 Projects
- Large Diameter

New sewer construction
- $50-63 Million total
- 11 projects for bid
- Various locations
Sewer Improvement Projects

Advertising 2nd Quarter 2021

- 78th and 76th Sewer Improvement
- Pershing Rd Sewer Improvement Project
- Rogers and Greenview Sewer Improvement
- 58th Street, Parnell and 44th Pl Sewer Improvement
- Archer Ave Sewer improvement Project
- Parnell and Halsted St Sewer Improvement Project
Sewer Improvement Projects

Upcoming 2021 Projects

- Hegewisch Sewer improvement
- Barry and Sheffield Sewer Improvement
- Englewood and Greater Grand Crossing Sewer Improvement Project
- Lunt and Lakewood Sewer Improvement
- Sacramento and 26th Sewer Improvement
- 3 various locations large diameter sewer lining (greater than 66-inches)
2021 HOMEOWNER-INITIATED LSL REPLACEMENT PROGRAM
For homeowners that want to hire a contractor & remove the existing LSL on their property. Under this program:

- City will waive up to $3,100 in permit fees
- City will connect the new service line to the water main & install a free water meter

2021 EQUITY LSL REPLACEMENT PROGRAM
Free, full (private + public) LSL replacement for eligible low-income residents if:

- Own and reside in their home
- Household income below 80% of area median income ($72,800 for family of 4) &
- Have consistent lead concentrations above 15 ppb in their water, as tested by the Department of Water Management.

- **Contract will be issued** to perform Equity LSL replacements in Q2 2021.

- **$6-$10 Billion over multiple decades** to remove all 400,000 LSLs. 2021 programs are just Phase 1 of 3. New programs will be announced over time.
MBE/WBE Participation

Contract requirements:

- **26%** Minority Owned Business
- **6%** Women Owned Business
- **New!** Veterans Owned Business

Increased participation through segmentation

Water Subcontracting Opportunities:
- Land Survey
- Electrical
- HVAC
- Materials Testing
- Asphalt Placement
- Trucking
- Landscaping
- Concrete
- Pipe Installation

Sewer Subcontracting Opportunities:
- Sewer Construction/Tunneling
- Cleaning
- Televising
- Materials Testing
- Asphalt Placement
- Trucking
- Landscaping
- Concrete
- Catch Basins
Sign up for notifications – DPS Alert: www.cityofchicago.org/dps

facebook.com/ChicagoDPS @ChicagoDPS youtube.com/ChicagoDPS cityofchicago.org/dps

Facebook.com/ChicagoWaterManagement
Questions?