Village of
Northbrook

PUBLIC WORKS AND FACILITIES COMMITTEE

NORTHBROOK VILLAGE HALL, 1225 CEDAR LANE
February 07, 2023, 6:00 P.M., TERRACE ROOM

The Public Works and Facilities Committee of the Village of Northbrook Board of Trustees will hold a meeting on Tuesday, February 07, 2023 at 6:00 p.m. in the Terrace Room of the Village Hall, 1225 Cedar Lane, Northbrook, Illinois. The following will be discussed.

MEETING AGENDA

1. Call To Order
2. Hear From The Audience
3. Discussion - Utility Rate Study
4. Adjourn

Johannah Hebl, Chair
Public Works and Facilities Committee

Members: Trustee Israel
Trustee Pepoon

Village of Northbrook
Cook County, Illinois
February 7, 2023

The Village of Northbrook is subject to the requirements of the Americans with Disabilities Act of 1990. Individuals with disabilities who plan to attend this meeting and who require certain accommodations in order to allow them to observe and/or participate in this meeting, or who have questions regarding the accessibility of this meeting or the facilities, are requested to contact Debbie Ford (664-4014) promptly to allow the Village of Northbrook to make reasonable accommodations for those persons. Hearing impaired individuals may call the TDD number, 564-8645, for more information.

MEMORANDUM
VILLAGE OF NORTHBROOK
PUBLIC WORKS

TO: **CARA PAVLICEK, VILLAGE MANAGER**

FROM: **MATT MORRISON, DEPUTY PUBLIC WORKS DIRECTOR**

DATE: **FEBRUARY 7, 2023**

SUBJECT: **CONTINUED UTILITY RATE STUDY DISCUSSIONS**

On December 13, 2022, the Village Board referred the continued discussion of fund reserve policies, different water and sanitary sewer rate structure options, further review of the draft utility rate study, review of an automated metering project, and the development of a recommendation of a long term (3-5 year) rate plan to the Public Works and Facilities Committee of the Village Board with Resolution 2022-126.

The initial meeting of the Public Works and Facilities Committee of the Village Board will take place on February 7, 2023. Topics on the agenda for this meeting will include an approximate schedule and topics for future meetings of the Committee, discussion regarding automated meter reading, and lead service lines and current regulations.

Included with this cover memo are subsequent memos on the aforementioned topics and a presentation for the Committee's review. Staff will be present to discuss these topics and provide a presentation at the meeting on February 7, 2023.

MEMORANDUM
VILLAGE OF NORTHBROOK
PUBLIC WORKS

TO: **CARA PAVLICEK, VILLAGE MANAGER**

FROM: **MATT MORRISON, DEPUTY PUBLIC WORKS DIRECTOR**

DATE: **FEBRUARY 7, 2023**

SUBJECT: **AUTOMATED METERING SYSTEM PROJECT**

Within the Village's water distribution system are approximately 14,140 water meters ranging in size from 5/8 inches to 6 inches. The purpose of water meters is twofold – 1) the meters allow the Village to assess fees to residents and businesses for their usage of water; 2) water meters are used to track water for regulatory reporting on water loss and the Village's allocation of water from Lake Michigan. The average age of water meters within the system are 29.5 years old, however 49% of the Village's meter inventory is more than 30 years old. Industry standard for accuracy of mechanical meters is generally 20 years, after which many begin to slow down and not account for all water going through them.

The Village's inventory of meters also represents a wide range of methods used to read them, most of which are antiquated by today's industry standards. Typically meters can be classified as either an inside read or an outside read depending the access need to perform the meter reading. Both inside and outside reads are done by the Village's meter reading contractor which is managed by the Finance Department. From time to time Public Works staff will also assist with conducting meter reads. For inside reads, meter readings can be a mailed in read from the property owner where there is difficulty scheduling access to the property or an inside in-person meter read can be scheduled. Outside reads can be completed by a visual read through a glass block window, some meters have an external register mounted on the side of a home or business that is read, while some meters have an external touch pad that is read using a handheld reader. All new meters being installed currently are equipment with outside read capability.

No matter the method used to read the meter, all reads are then manually entered for each account into books which are collected from meter readers. Meter reads from these books are entered into the Village's utility billing system manually by the Village's utility billing clerks for every account in the Village.

The water industry has progressed in the use of automated meter reading technology such that now the industry standard are systems which promote two way communication between the customer and the utility similar to those used by ComEd and Nicor. These "smart meters", use infrastructure which is secure and encrypted to send usage data to the utility which is downloaded into a meter software system and either interfaces with a water systems utility billing system or exports data so that it can be imported and uploaded by a utility billing system.

Additionally, the water meters most commonly being installed today do not include any internal moving parts. Instead these meters use ultrasonic measurements to determine the volume of flow through a meter. Since ultrasonic water meters, which are battery powered and have an approximate useful life of 20 years, do not have moving parts this removes one variable that contributes heavily to overall meter failure as well as the slowing down and inaccuracy of meters.

Included in Fiscal Years 2024-25, 2025-26, and 2026-27 of the Capital Improvement Plan and the Utility Rate Study is the implementation of an automated metering system. This project will begin in FY 2023-

24 with the review and selection of a standard meter, the software and meter reading platform, and the contractor to oversee/install the meters. This project will be a joint project amongst the Village's Finance, Public Works, and IT Departments. In conjunction with this work, there will be future policy discussions with the Public Works and Facilities Committee on such topics as (but not limited to): responsibility for faulty valves to isolate the meter in a private property, responsibility for lead service lines from the b-box to home, fees for meter reads for residents that do not allow for automated meters to be installed in their home, etc. The estimated cost of this project is $4.5 million at present. Below is an approximate outline of this schedule:

- January 2023 – August 2023 – Meter and software research
- September 2023 – November 2023– Purchasing documents prepared
- December 2023 – March 2024 – Procurement process
- April 2024 – October 2024 – Meter materials ordered and deliver begins, communications with customers
- November 2024 – Meter installation begins
- September 2024 – April 2027 – Meter installation completed

With such a significant investment in a project a logical question is - why are water meters important? Water meters are an integral component of the Village's water distribution system. Having an accurate metering system will result in not only an accurate accounting of water used by customers within the system, at the same time it will result in a reduction of unaccounted for water or "water loss." Water loss is taken into consideration as part of the Village's Lake Michigan water allocation and is regulated by the Illinois Department of Natural Resources. Exceeding total targets for water loss/unaccounted for water will result in having to implement improvement plans or reductions in water allocations. New meters that are accurate will certainly reduce the amount of water loss/unaccounted for water within in the Village's distribution system.

As meters age (particularly mechanical meters) and become less accurate, water loss/unaccounted for water also equates to unrealized revenue not just in the Water Fund but also in the Sewer and Stormwater Funds. Replacing old and inaccurate meters will result in an increase in revenue simply with more accurate metering of customers water. In conjunction with the public outreach associated with a meter change out program, significant communications will be designated to informing customers of the new meters more accurate accounting for of water and its impact on their bills. In conjunction with this, there is a sustainable component that will encourage customers who see what their actual usage is to reduce usage and conserve water. Lastly, with more accurate metering of water there will be a more accurate assessment of costs to those customers that are actually using more.

Staff will provide a presentation on the topic of an automated metering system at the February 7, 2023 Public Works and Facilities Committee Meeting.

MEMORANDUM
VILLAGE OF NORTHBROOK
PUBLIC WORKS

TO: CARA PAVLICEK, VILLAGE MANAGER

FROM: MATT MORRISON, DEPUTY PUBLIC WORKS DIRECTOR

DATE: FEBRUARY 7, 2023

SUBJECT: LEAD SERVICE LINES

Effective January 1, 2022, the Lead Service Line Replacement and Notification Act (LSLRNA) (Public Act 102-0613) replaced the former lead materials inventory requirements found in the Illinois Environmental Protection Act.

Under the LSLRNA, the Village is required and the owner and operator of the community water supply to develop, implement, and maintain a comprehensive water service line material inventory and replacement plan for lead service lines within the water distribution system.

There is a clear delineation in the Village of ownership of the water service lines. Specifically, the Village is responsible for the section of the service line from the water main to the B-box (shutoff valve) and the property owner responsible for the service line from the B-box to inside the house/business at the meter (Section 27-48 of the Municipal Code). The location of the B-box is typically at the property line where the ownership changes from public to private. All water service lines inside of a home/business are also to private property owner's responsibility.

Inventory of Lead Service Lines in Northbrook

The Village of Northbrook does not have any lead water mains however it was common for services lines that were installed as homes connected to the Village's water mains prior to the mid-1950s to be made of lead. Following that time the Village required service lines to be copper pipe. Beginning in 1988 as the Village of Northbrook replaced water mains in the community, it replaced the Village's portion of lead service lines located within the project area of the water main replacement with copper. Additionally in the case of demolitions and large scale remodeling of homes, the Village began to require existing lead service lines to be converted to copper in 1990 and 1995 respectively.

Legislative Update

As noted above, with the State of Illinois' passage of Public Act 102-0613, the Lead Service Line Replacement and Notification Act was enacted into law. This regulation requires owners and operators of water systems to develop and maintain an inventory of lead service lines, as well as to implement a comprehensive plan for the replacement of lead service lines. These regulations do not differentiate the ownership responsibilities only that the Village as the water operator must comply with the requirements.

Within the statute there are certain deadlines for water system owners and operators to meet concerning lead service line inventory and replacement plans.

- The Village has completed an initial inventory of service line materials but a more detail and updated service line material inventory that must be submitted to the Illinois Environmental Protection Agency (IEPA) by April 15, 2023.

- No later than April 15, 2024, the Village must submit a final service line material inventory to the IEPA.
- The Village must also develop a Lead Service Line Replacement (LSLR) plan which identifies how the Village will replace all portions of lead service lines, regardless of ownership. Versions of the LSLR plan are required to be submitted annually by April 15, 2025 and April 15, 2026, with a final replacement plan submitted to the IEPA by April 15, 2027.
- Depending on the final number of lead service lines within the Village, it appears that by the year 2044, all lead service lines have to be replaced but a minimum of 6% of the lines must be replaced each year before that.

When conducting the updated service line material inventory and the final service line material inventory, the Village as the water system operator cannot require access to homes or businesses to verify their service line materials, however the Village must keep detailed records of those that refused access. When implementation of the service line replacement program begins, the entire service line must be replaced by the water system owner unless the owner or occupant of the building does not allow access to replace the line.

Exceptions are made which allow for only the Village's portion of the service line up to the B-box to be replaced such as in the case of an emergency like water main break or when the owner or occupant of a building refuse access. In the case of these exceptions the Village must notify the owner or occupant of the lead service line and provide water filters and replace the private portion of the line within 30 day of the repair or 120 days in the event of weather or other reasonable delays outside of the Village's control.

Funding for the replacement of the Village's portion of a lead service line are required to be borne by the utility (the Village's Water Fund). The Act allows the Village to require the property owner of the private portion of the line to pay for the replacement. If the Village is receiving state or federal funding for the work, the property owner shall not be required to pay for the private portion of the service line replacement. Replacement utilizing state or federal funds must be prevailing wage, utilize disadvantaged businesses, and have an apprenticeship program as a requirement for the contractor. If the Village is using its own funds to replace prevailing wage must still be paid and property or building owners can be required to pay for the replacement of the private portion of the service line. The act intends to provide broad liability protection to water system owners and operators for damage to property when replacing a lead water service.

Current Status of Lead Service Line Program

The Village of Northbrook has completed the initial step of the program and compiled the initial inventory of service line materials. Aside from known properties with lead service lines, staff used GIS and building permit data to compile the initial inventory of service lines. This was done by filtering home construction/demolition/remodel dates, to identify homes that were originally constructed prior to the 1950s, and those homes that were constructed prior to the mid-1950s and demolished or remodeled prior to 1990 or 1995 respectively. Through this process approximately 1,800 of the Village's 12,637 connections may have a lead pipe either on Village side of the service line, the private side, or both.

With the initial list of approximately 1,800 properties identified, the Village sent letters to the properties in December 2022 asking them to contact the Village of Northbrook to verify their service line material. The response rate from those letters is currently at 20-25%. Residents who receive that letter are able to call in their service line material using a hotline established for the purpose. If the resident was or is not able to identify the service line material staff schedules an appointment with the resident to have a Public Works Maintenance Worker inspect the service line and determine the material.

Comparable Communities Lead Service Line Programs

Once the service line survey is completed in time for the April 2024 submittal deadline, the Village will have sufficient data to prepare a comprehensive lead service line replacement program. A summary of the service line replacement programs of neighboring communities is included as Table 1. As the Village's LSLR plan is developed, the Village can choose to pay for the lead service line replacement from the B-box to the home, defer the cost through a cost share program, or offer other incentives such as waiving permit fees.

Table 1. Summary of Neighboring Communities' Lead Service Line Programs

Community	Number of Lead Service Lines	Lead Service Line Program Cost Share	Replacement Policy Cost Share Cap	Waive Permit Fees
Deerfield	650	50%	$5,000	No
Glenview	3,500	50%	No Cap	No
Highland Park	1,800	20%	$3,000-$5,000	No
Lake Forest	300	None	N/A	Yes
Libertyville	700	50%	$2,500 - $5,000	No
Palatine	1,500	66%	$10,000	No
Winnetka	450	50%	$5,000	No

Next Steps

The Village is required to incorporate lead service line replacement into its immediate operations because as mentioned previously, partial lead service lines are no longer allowed. For instance in the FY 2023/24 water main replacement program in the Northbrook Highlands and Northbrook Park subdivisions staff had identified 8 lead service lines within the project area. Staff has included the replacement of lead service lines from the main to the home in this year's scope of work. The estimated cost to the project for replacement of 8 services line from the b-box to the inside of the home is approximately $56,000 based on the initial estimated number of lead lines. Incorporating this work in the Village's project will provide a benchmark for future service line replacements as the Village develops its service line replacement program. **A policy question for the Public Works and Facilities Committee to opine on is should the Village include in its costs the replacement of the private portion of these service lines or should the residents bear these costs?** Subject to the consensus of the Committee a formal policy will be brought to the Village Board for consideration.

During emergency repairs such as water main breaks, the Village will replace a lead service from the main to the B-box anytime one is exposed during a water main break. The Village will follow the protocols outlined in the act including notifying the owner and or occupant, providing water filters, and scheduling a replacement as the opportunity allows.

A follow-up discussion of lead service lines and policies on who will be responsible for what costs will be included with the next discussion of the utility rate study at the meeting of the Public Works and Facilities Committee of the Village Board.

MEMORANDUM
VILLAGE OF NORTHBROOK
PUBLIC WORKS

TO: **CARA PAVLICEK, VILLAGE MANAGER**

FROM: **MATT MORRISON, DEPUTY PUBLIC WORKS DIRECTOR**

DATE: **FEBRUARY 7, 2023**

SUBJECT: **PROPOSED STRUCTURE OF FUTURE PW&F COMMITTEE MEETINGS**

The Public Works and Facilities Committee of the Village Board will hold additional meetings to discuss the topics referred to the Committee by the Village Board. Due to the existing schedule Committee of the Whole and other Committee meetings currently scheduled, it is anticipated that the scheduling of Public Works and Facilities Committee meetings would begin in June 2023 with an anticipated completion in August or September 2023. A recommended structure of topics and meeting is outlined below.

Table 1. Proposed Structure of Future PW&F Committee Meetings

Meeting	Meeting Number	Meeting Topics	Date of Meeting
Public Works and Facilities Committee	2	Water Meter Project Update Fund Reserve Policy Additional Rate Study Comments Lead Service Lines	June
Public Works and Facilities Committee	3	Rate Structure (Mechanics) Rate Plan Length Water Meter Project Update	TBD
Public Works and Facilities Committee	4	Rate Structure (Mechanics and Numbers) Rate Plan Length Recommendation to Village Board of Trustees Water Meter Project Update	TBD
Board of Trustees	N/A	Consideration of Public Works and Facilities Committee Recommendations Consideration of Multi-Year Rate Plan	TBD

Staff will be seeking input and feedback at the Public Works and Facilities Committee meeting as to the schedule and topics to be covered in the outlined meetings.

Continued Utility Rate Study Discussion

VILLAGE OF NORTHBROOK

PUBLIC WORKS AND FACILITIES COMMITTEE

FEBRUARY 7, 2023

Meeting Agenda

- Introduction of Automated Metering Project
- Lead Service Line Regulations
- Draft Schedule of Future Meetings and Topics
- Additional Comments/Discussion on Utility Rate Study (If Any)

Automated Metering Project

Automated Metering Project

- Water Meters are an important part of the Village of Northbrook's water distribution system.
  - Water meters measure the amount of water being used at a property.
  - Water usage information is used for billing of water, sewer, and stormwater services.
  - Meters also play an important part in regulatory reporting, specifically in determining unaccounted for water, aka "water loss" which impacts the Village's allocation of Lake Michigan water.
- Northbrook has approximately 14,140 water meters within the distribution system ranging from 1/2 inch to 6 inches.

Automated Metering Project

- Current Meter Reading Process:
  - The Village's water meters are read by a contractor using a variety of methods including:
    - In-person inside reads (meters that cannot be read from the exterior of a home);
    - Through glass blocks;
    - From an external register attached to a water meter;
    - Through an electronic touch pad and the use of handheld reading device.

  - Water usage information is then entered into meter books by meter readers. Meter books are turned into Finance Department and information is hand entered into BS&A for each account.

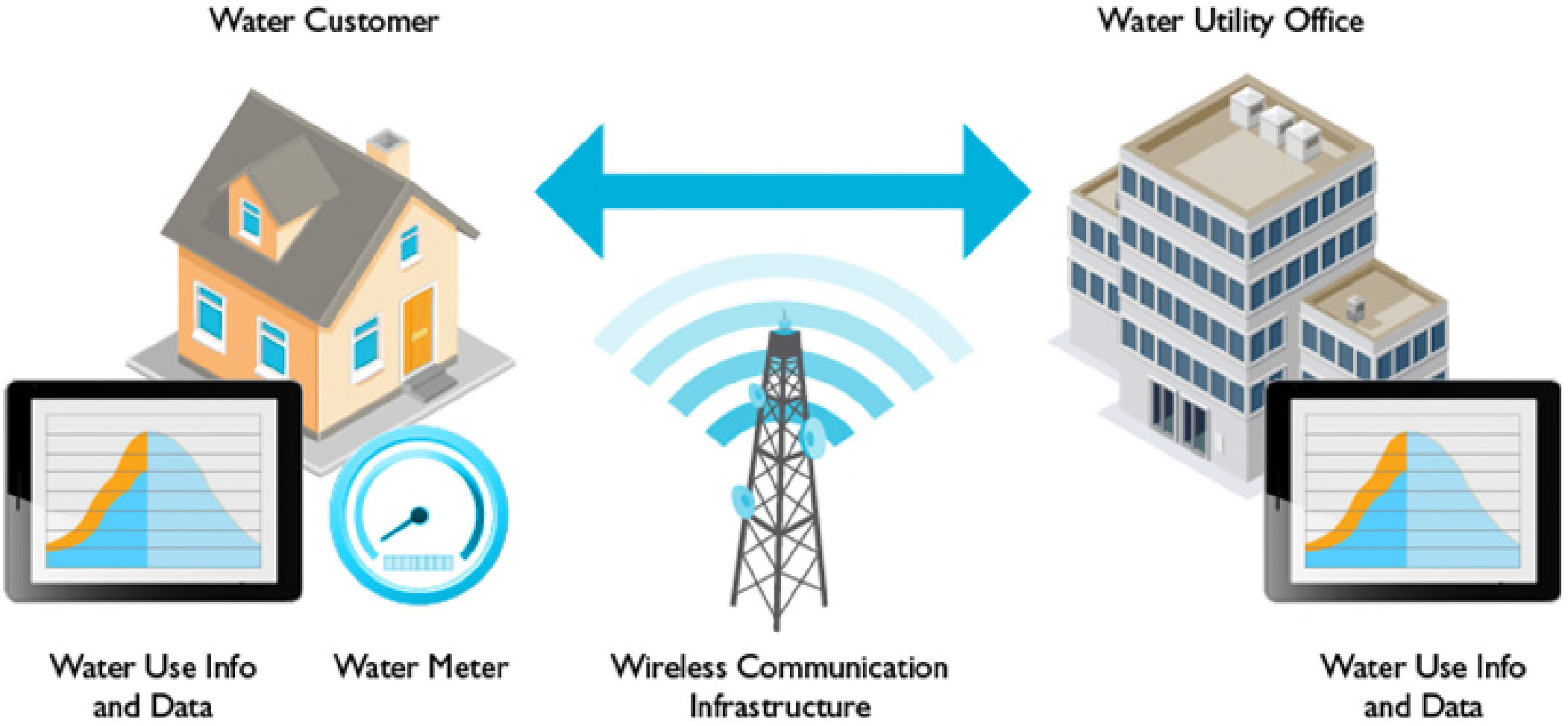
Automated Metering Project

- Water meters have an expected accuracy life of approximately 20 years. In particular, as mechanical meters age, they will slow down.
- Majority of meters in the Village's inventory are mechanical meters.
- Average age of Village's water meters is 29.5 years old with 49% more than 30 years old.
  - 12% of meter inventory is between 31 and 40 years old.
  - 29% of meter inventory is between 41 and 50 years old.
  - 8 % of meter inventory is older than 50 years.

Automated Metering Project

- As Village has replaced meters, a sample of those replaced have been sent for testing to gauge accuracy of meters within the system.
  - 527 meters have been tested, of those 125 have passed (24%) and 402 have failed (76%).
  - AWWA standard (industry standard) for accuracy is +/- 1.5% or 98.5% to 101.5%.
  - Average Accuracy of Meters Tested That Were Installed for:
    - 0 - 5 Years = 44% (18/22 Meters Failed Test)
    - 6 - 10 Years = 49% (9/15 Meters Failed Test)
    - 11 - 15 Years = 63% (19/29 Meters Failed Test)
    - 16 - 20 Years = 62% (14/20 Meters Failed Test)
    - 21 - 30 Years = 72% (45/85 Meters Failed Test)
    - 31 - 40 Years = 73% (76/96 Meters Failed Test)
    - 41- 50 Years = 65% (172/200 Meters Failed Test)
    - More Than 50 Years = 69% (49/60 Meters Failed Test)

Automated Meter Infrastructure and Smart Water Metering



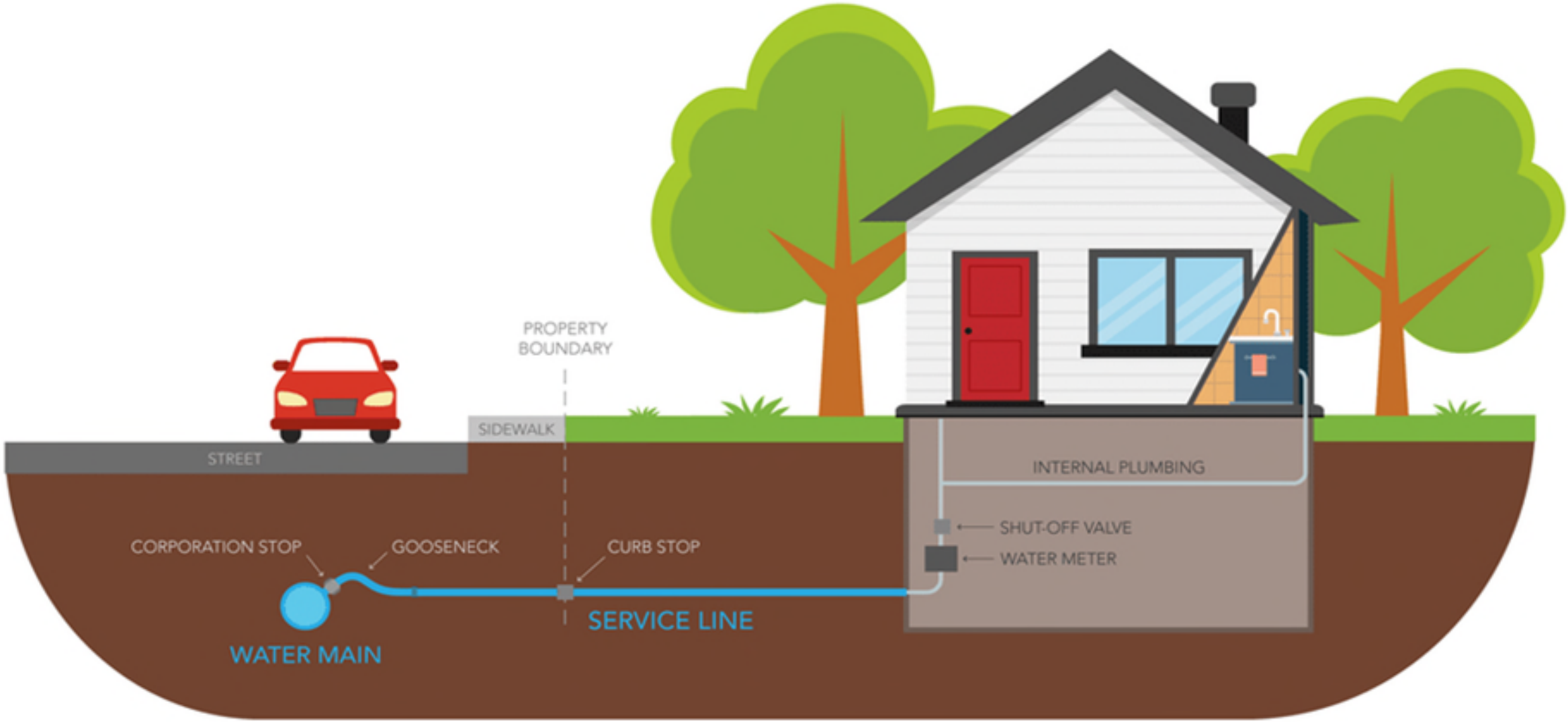
Automated Metering Project

- Included in the Capital Improvement Plan and Utility Rate Study is the implementation of an automated meter reading system. The project will be a joint endeavor amongst the Finance, Public Works, and IT Departments.
- An estimated schedule for the project is as follows:
  - January 2023 – August 2023 – Meter and software research
  - September 2023 – November 2023– RFQ/RFP documents prepared for procurement process
  - December 2023 – March 2024 – Procurement process
  - April 2024 – October 2024 – Meter material ordered and delivery begins, Communications with customers
  - November 2024 – Meter installation begins
  - September 2024 – April 2027 – Meter installation completed
- The estimated cost of the project is $4.5 million.

Automated Metering Project

- Why is the Village undertaking this project?
  - New meters will accurately accounting for water being used by customers.
  - Meters also play an important part in regulatory reporting, specifically in determining unaccounted for water, aka “water loss” which impacts the Village’s allocation of Lake Michigan water.
  - Accurately metering water usage impacts revenues of the Water, Sanitary Sewer, and Stormwater Funds.
- At the next meeting of the Public Works and Facilities Committee, the Committee will be asked to consider policy recommendations such as:
  - What ramifications if any will there be for residents that do not allow for a remote radio read capable meter?
  - What costs will the Village be responsible for if shut off valves within a home do not work and need to be replaced?
  - What costs will the Village be responsible for if residents have blocked access to the meter (i.e. sealed meters in ceilings or constructed walls over them)?

Lead Service Line Regulations


PROPERTY
BOUNDARY
SIDEWALK
STREET
INTERNAL PLUMBING
SHUT-OFF VALVE
WATER METER
CORPORATION STOP
GOOSENECK
CURB STOP
SERVICE LINE
WATER MAIN

Lead Service Line Regulations

- The State of Illinois passed Public Act 102-0613 known as the **Lead Service Line Replacement and Notification Act**.
- Legislation requires an inventory of lead service lines be completed, a replacement plan for public and private portion of lead service lines.
- Partial lead service line (i.e. only the Village's portion of the service line) is not permitted unless there is an emergency repair such as a water main break.
- Legislation allows for assessing costs of private service line replacement to property owners or occupants if using Village funds. If using State of Federal Grants, customers will not be charged.
- Water system owners and operators, such as the Village of Northbrook, are given broad liability protection for damage to private property in conjunction with the replacement of lead service lines.

Lead Service Line Regulations

- Regulatory Timelines Water System Owners Must Meet:
  - Initial Lead Service Line Inventory (Preliminary) – April 15, 2022
  - **Updated Lead Service Line Inventory Filed with IEPA – April 15, 2023**
  - Final Service Line Inventory Filed with IEPA – April 15, 2024
  - Initial Service Line Replacement Plan Filed with IEPA – April 15, 2025
  - Updated Service Line Replacement Plan Filed with IEPA – April 15, 2026
  - Final Service Line Replacement Plan Filed with IEPA – April 15, 2027
  - Completion of Service Line Replacement – April 2061 (with minimum of 3% of lines addressed per year)
- Other timelines:
  - Emergency Service Line Replacement (i.e. Water Main Break) – Must notify owner or occupant of the building affected and schedule private portion of service line replacement with in 30 days.
  - Repair may be scheduled up to 120 days out in the event of weather or other circumstances beyond reasonable control that would prohibit replacement of the line.
    - Village must provide water filters during the 30 day or 120 day periods.

Lead Service Line Regulations

- Northbrook's Past Approach to Lead Service Lines
  - Village of Northbrook has no lead water mains.
  - Mid-1950's – Use of lead for service lines no longer allowed in the Village of Northbrook.
  - 1990 – Required replacement of lead service lines for properties being demolished.
  - 1995 – Required replacement of lead service lines for properties being remodeled.
  - 1988 – Village's policy is to replace all service lines between the water main and b-box in conjunction with
- Using the dates above as well as building permit data and home construction dates, an initial inventory of service lines that are in part or wholly lead was built out in GIS.
- Initial inventory yielded approximately 1,800 possible properties with lead service lines.
- Those properties have received letters asking property owners to verify their service line materials. Residents and businesses are also able to make appointments for Public Works staff to come out and assist in verifying the material as well.

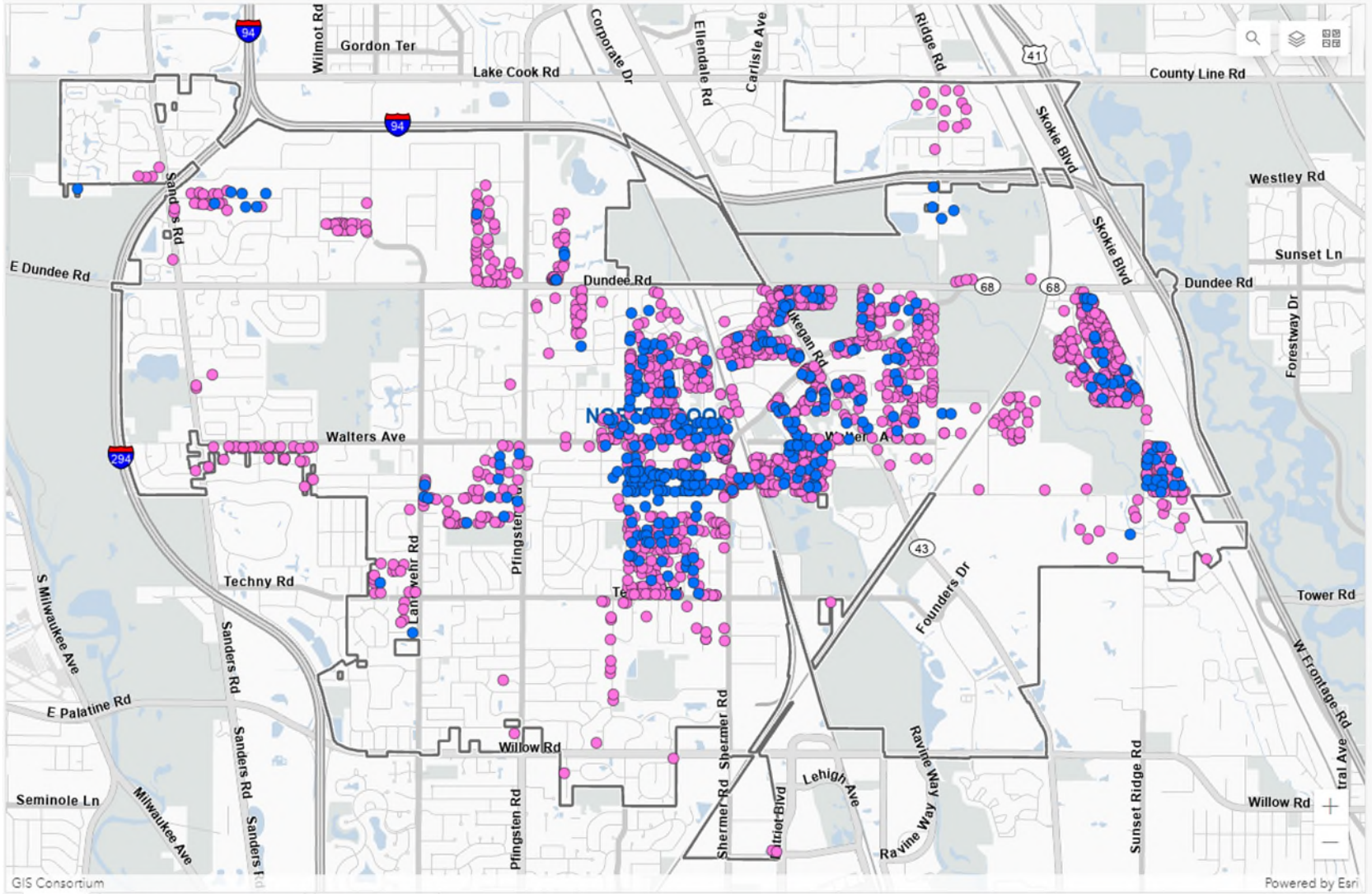
Lead Service Line Regulations

Summary of Neighboring Communities' Lead Service Line Programs

Community	Number of Lead Service Lines	Lead Service Line Program Cost Share	Maximum Property Reimbursement	Waive Permit Fees
Deerfield	650	50%	$5,000	No
Glenview	3,500	50%	No Cap	No
Highland Park	1,800	20%	$3,000-$5,000	No
Lake Forest	300	None	N/A	Yes
Libertyville	700	50%	$2,500 - $5,000	No
Palatine	1,500	66%	$10,000	No
Winnetka	450	50%	$5,000	No

Water Service Line Inventory

Select a date
No date selected



Map | Lead Lines Removed List | Survey Areas

Retail Connections
12,637

Lead, Supplier Side Only
161
(Includes estimated locations)

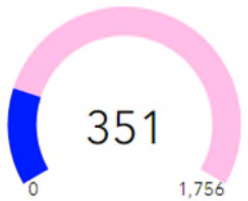
Lead
1,756
(either side lead or possibly lead)

Copper
10,149
(Both sides)

DI / CI / Transite
25
(either side DI / CI and no side lead)

Unknown / Copper
668
(One or both sides unknown; one side copper)

Verified Lead Compared to Total Reported Lead



Lead Lines Removed
Selection required on one or more elements

Customer Lines Verified
Selection required on one or more elements

Supplier Lines Verified
Selection required on one or more elements

2023 Water Main Projects

FY 2023/24 Water Main Projects

- Water main replacement projects scheduled for FY 2023/24 have been surveyed and found 8 confirmed lead service lines.
- Estimated cost to replace the 8 lead service lines from the b-box into the home is $7,000 each or $56,000.
- This cost is currently incorporated in the project budget and represents approximately 1.5% of the estimated water main replacement cost identified in the CIP.
- **Should the Village cover the cost of these initial service line replacements to establish a benchmark for costs of future service line replacements or should the property owners be responsible for this cost?**
- With the completion of the service line survey this year, additional policy questions for the Public Works and Facilities Committee will be brought back in conjunction with the development of the comprehensive lead service line replacement program.

Proposed Structure of Future PW&F Committee Meetings

Proposed Structure of Future PW&F Committee Meetings

Proposed Schedule and Structure of Utility Rate Study Meetings			
Meeting	Meeting Number	Meeting Topics	Date of Meeting
Public Works and Facilities Committee	2	Water Meter Project Update Fund Reserve Policy Additional Rate Study Comments Lead Service Lines	June
Public Works and Facilities Committee	3	Rate Structure (Mechanics) Rate Plan Length Water Meter Project Update	TBD
Public Works and Facilities Committee	4	Rate Structure (Mechanics and Numbers) Rate Plan Length Recommendation to Village Board of Trustees Water Meter Project Update	TBD
Board of Trustees	N/A	Consideration of Public Works and Facilities Committee Recommendations Consideration of Multi-Year Rate Plan	TBD

Additional Comments/Discussion of Utility Rate Study