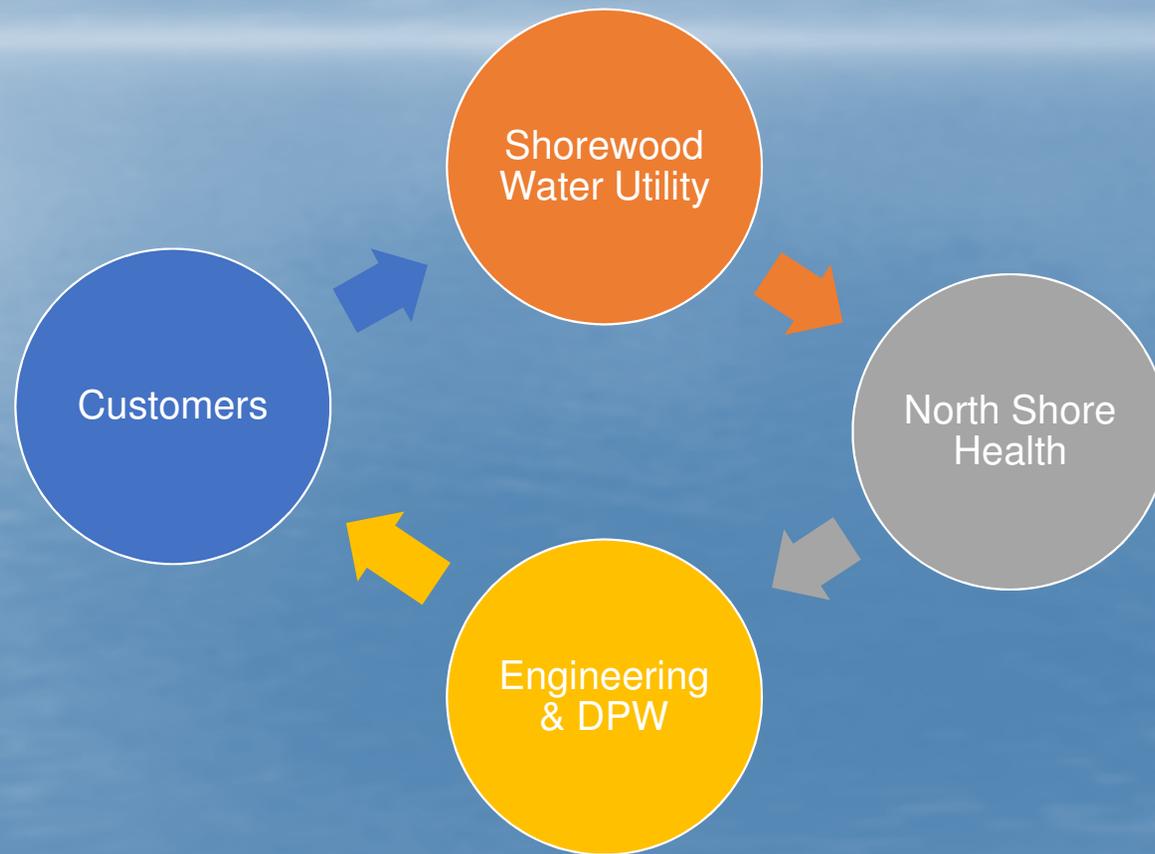


LEAD SERVICE REMOVAL PROGRAM



PROJECT COLLABORATION



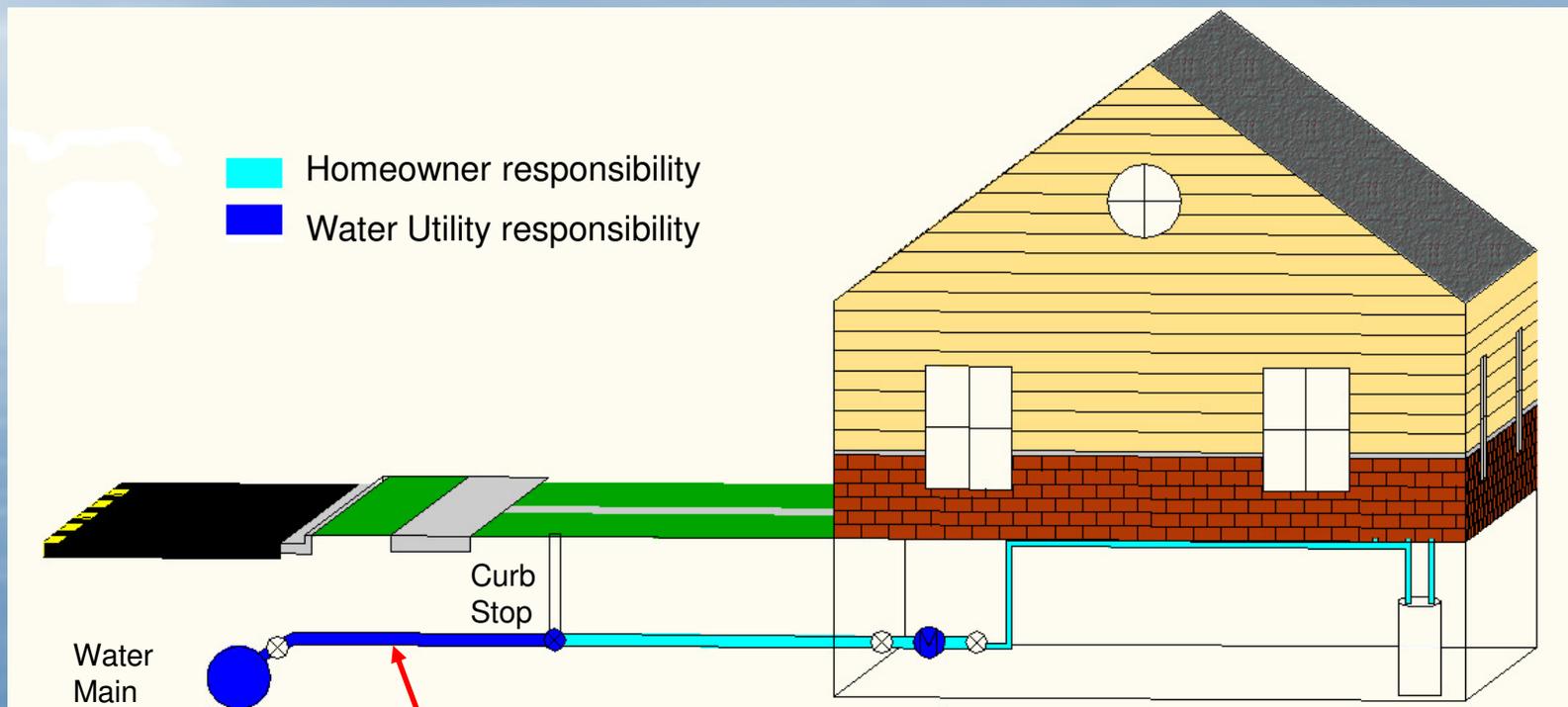
PROGRAM COMPONENTS

- Public education and information
- Removal of lead (Pb) services from public distribution system
- Protecting our customers
- Long-term actions

PUBLIC EDUCATION AND INFORMATION

- Safety of our drinking water
 - Lead NOT found in our source water, Lake Michigan
 - Corrosion control
- Ownership and maintenance of service lines
 - Public service
 - Private service
- Concerns related to lead
 - Health impacts
- Exposure risks and best practices to mitigate risks
 - Environmental sources
 - Flushing

WATER SERVICE LINE ILLUSTRATION



Lead (Pb) service lateral to be replaced with copper (Cu)

HEALTH IMPACTS OF LEAD

- Lead has been used for hundreds of years in a wide variety of products.
- Lead can enter the body through breathing or consuming it.
- Young children are most vulnerable – developing body, brain and metabolism.
 - An elevated blood lead level is currently $\geq 5\mu\text{g}/\text{dL}$
 - In 2014, 4.5% of Wisconsin children tested had BLL of $\geq 5\mu\text{g}/\text{dL}$.
 - 2.2% of children in North Shore cities had BLL of $\geq 5\mu\text{g}/\text{dL}$
 - 8.6% of children in Milwaukee had BLL of $\geq 5\mu\text{g}/\text{dL}$

HEALTH IMPACTS OF LEAD IN DRINKING WATER

- Tap water contributes 10-20% of total lead exposure in the United States.
- Studies show temporary lead increases in water following partial lead service line replacement.
- EPA and CDC recommend full lead service line replacement as best option to reduce exposure to lead.
- When partial replacement does occur:
 - Flush tap water immediately (30 min) and daily (10 min)
 - Use home water filters until lead levels return to baseline

2016 REMOVAL OF LEAD SERVICES FROM DISTRIBUTION SYSTEM

- Targeted communication with residents in water main relay areas
- Field verify service lateral material
- Partial lead service lateral replacement
 - Daily flushing and filtration units
- Full Replacement
 - Coordinate with Water Utility/Village construction contract

PROTECTING OUR CUSTOMERS

- Request to establish baseline lead level by taking pre-construction sample from each connected home. Testing requests repeated at intervals of one week, one month and weekly until levels return to baseline.
- Partial lead lateral replacement homes will be provided a water filter and three month supply of replacement cartridges.
- Flushing protocol strongly encouraged.
- Test results shared with homeowner.

LONG-TERM ACTIONS

- Build upon program developed for 2016 with continued review of industry practices and standards.
- Evaluate long-term replacement policy including potential funding sources.

QUESTIONS

