

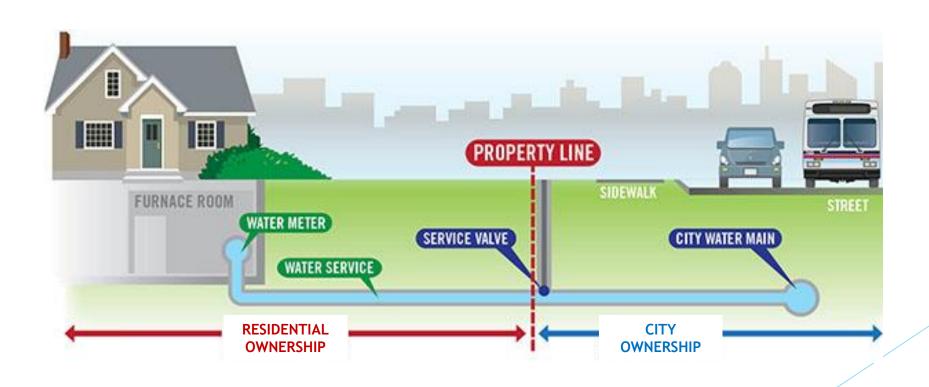
City of Flint Water System Update

September 2015

Overview

- Recent Concerns/Typical Household Service-lines
- Water System Roles and Responsibilities
- Other City Actions
- Lead and Copper Solutions
- Infrastructure Planning Documents
- Revenue Streams
- Utility Planning Documents

Typical Household Service Lines



Water System Roles & Responsibilities

Environmental Protection Agency (EPA) –

Agency of the U.S. Government who's mission is to protect human health and the environment.

Department Environmental Quality (DEQ) -

Agency of the state of Michigan charged with promoting wise management of the state's air, land and water resources to support a sustainable environment.

Lockwood, Andrews, & Newnam (LAN) -

Firm procured by the City of Flint to provide professional engineering services in the design and development of the Flint water plant.

City of Flint Utilities Division -

Owner and day to day operator of the Flint water system.

- > State Licensed F-1 Operator Oversees Water Plant Operations
- > State Licensed S-1 Operator Oversees Distribution System

Other City Actions

- Consulted with Various Industry Experts
- Developed a Written and Prioritized Infrastructure Plan
- Developed a Successful Implementation Plan for TTHM
- Developed a Draft Corrosion Optimization Plan Ready to present to the DEQ
- Developed Advisory Committees which Include EPA and DEQ Representatives
- We Expect the Committees to Remain Intact through the Transition to KWA

Lead & Copper Solutions

Short Term:

Flushing – If there is a concern, flush your pipes before drinking, and only use cold water for cooking and drinking.

Public Education - The City has produced an FAQ sheet that details EPA recommended measures to help reduce the risk of lead exposure and will maintain increased educational efforts.

Mid Term:

Corrosion Optimization – A corrosion optimization plan has been drafted by the engineering team and will be submitted to the DEQ for approval.

Testing – The City continues to encourage water testing to all residents. This will help build confidence and will provide more data to be reviewed.

Long Term:

Change lead service lines – The City is actively reviewing options that would allow for all lead service lines to be changed over time.

Infrastructure Planning Documents

50 Year Master Plan - Section 8

10 Year Rate Study - Raftelis

5 Year Capital Improvement Plan Section 6 - Pages 47 - 68

2 Year Budget - Submitted to Treasury

2013 Water Reliability Study - ROWE / Potter Engineering

FY 2016 DPW/Utility Objectives and Tasks

Revenue Streams

- ☐ Maintenance Budget
- ☐ Capital Improvement Plan
- DEQ Funding Opportunities
 - DWRF (Drinking water Revolving Loan) Specific to Water Projects
 - ❖ SRF (Sewer Revolving Loan) Specific to Sewer Projects
 - SAW (Stormwater, Asset Management, and Wastewater Grant)
 - SWQUIF (Strategic Water Quality Initiatives)
 - \$2 (Grant for engineering towards SAW/SWQIF)

Utility Project Status

PROJECT	COST	STATUS
Installation on Granulated Activated Carbon	\$1,600,000	Completed
Valve cycling over 5000 valves (over 2/3 of system) to help water flow	\$400,000	Completed
Installation of over 9000 irregular reading meters for more accuracy	\$2,500,000	1/3 Complete
Leak detection on 600 miles of distribution main to identify water loss	\$900,000	1/2 Complete
Construction of load-out facility to eliminate the use of the incinerator	\$1,100,000	2/3 Complete
SCADA system upgrades	\$848,000	1/2 Complete
Hydraulic model of distribution system	\$45,000	Being filled with data
100's of main break repairs		Ongoing
Dozens of valve replacements		Ongoing
7- Mile pipe replacement		Delayed
Total	\$7,393,000	