



## **AGENDA**

- Hamilton Corrosion Control Journey
- Health Benefits
- Implementation Update
- Financial Update
- Outreach Plan
- What to Expect





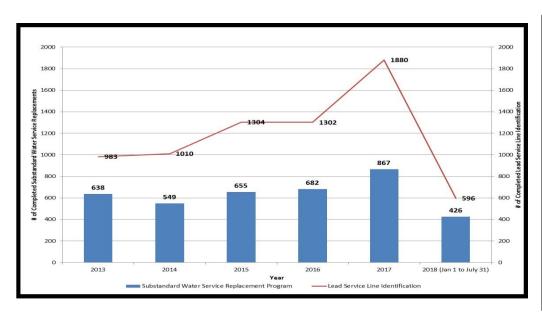
## HAMILTON'S CORROSION CONTROL JOURNEY

2007 Health Canada's proposed corrosion control guideline released May 2007 MOE issues sampling order to 35 municipalities in Ontario July 2007 MOE releases Schedule 15.1 of O. Reg. 170/03 Nov 16 2015 - Council Approves Corrosion Control Plan (Orthophosphate addition) 2008-2009 Lead exceedances in Hamilton triggers Corrosion Control Plan December 2009 MOE releases Guidance Document for Preparing Corrosion Control Plans for Drinking Water Systems 2007 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2008 2019 2016-2018 Baseline monitoring program 2011-2014 Pipe loop testing 2015-2017 Studies in support of corrosion control implementation: 2009-2010 Hamilton's Corrosion Control Plan Pipe loop peer review Leap profile testing Monitoring plan Communications plan Coagulation optimization study Distribution system best practices study Unidirectional flushing pilot study



### **EXISTING PROGRAMS FOR LEAD**

- Active participation in sub standard and lead service line program
- 600 + filters handed out to residents
- Lead awareness and outreach (mailings and brochures)







#### **HEALTH BENEFITS**

- Consumption of lead is harmful to health, especially in infants, young children and pregnant women (impacts to fetus)
- Taking action to decrease lead concentrations in tap water across the community will benefit Hamilton residents
- Orthophosphate is a proven method of reducing lead in drinking water and there are no known adverse health effects







# **IMPLEMENTATION UPDATE**

FEATURE/ITEM	TIMELINE
Design and construction	On-going
	Completion Q4 2018
Implementation and Contingency Planning Including pre-monitoring	COMPLETE
Outreach - Residential & Industrial users	Q1 2018 – On-going
Flush the distribution system	Q2 2018 - On going
Update to surrounding municipalities supplied by Hamilton - Haldimand and Halton	Q3 2018
Regulatory Permitting - Update ECA	Q4 2018
Implement corrosion control - Post implementation Program	Q4 2018
Lead Service Line Replacement Program	On-going



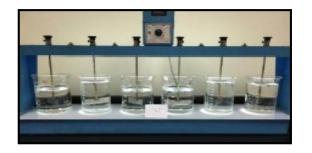
# **IMPLEMENTATION UPDATE**















## FINANCIAL UPDATE

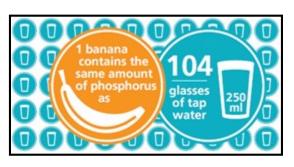
- Capital Construction \$5 Million
  (Clean Water and Wastewater Fund project)
- Pre-implementation cost (2016-2018)
  - \$97,000 annually for 1 temporary FTE (for a period of 2 year)
  - \$10,000 annually for laboratory analysis
- Post-implementation annual operating costs
  - \$300,000 annually for chemical addition
  - \$10,000 annually for laboratory analysis



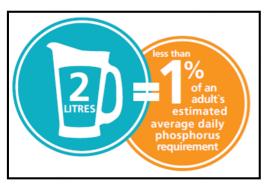
## Lead Awareness Campaign

- Targeted mailings
- Bus shelter advertising
- Online
  - Website
  - Informational videos videos
  - Frequently asked Questions
- Presentations to the Industrial Sector





## **OUTREACH PLAN**









#### WHAT TO EXPECT

- Orthophosphate dosage begins in November 2018
- Potential for localized Water Quality issues
  - Cloudy water (Milky-white)
  - Rusty water
  - Possible taste and odour complaints

 The system-wide approach will protect Hamilton residents from lead in drinking water (Woodward Drinking Water System)





# **QUESTIONS?**