



**Oakland County Water Resources Commissioner Jim Nash** Presents

#### WATER INFRASTRUCTURE **101**

**IUI** "WHAT YOU NEED TO KNOW BELOW & BEYOND" LIBRARY DISCUSSION SERIES

#### **Discussion Topics Include:**

- Aging Infrastructure
- Oakland County Water Resources Commissioner Projects
- Home Infrastructure "Tips to Protect Your Systems"
- Water Quality
- Sewer & Stormwater



- Lead & Copper
- Employment Opportunities
- Water Residential Assistance Program (WRAP)
- Public Concerns, Q & A and Feedback

#### Oakland County Water Resources Office One Public Works Drive, Building 95 West Waterford, MI 48328-1907

Phone: 248-858-1404

## Welcome

The Drain Commissioner History and Oakland County Work

**First Organized in 1896** 

Drain Code of 1956

Oakland County Changed to Water Resources Commissioner in 2009.

What We Do

**Regional Collaboration** 

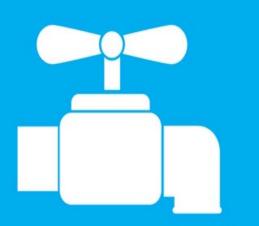
## Aging Infrastructure



#TimeToBuild

The national water infrastructure investment gap is \$82 billion per year





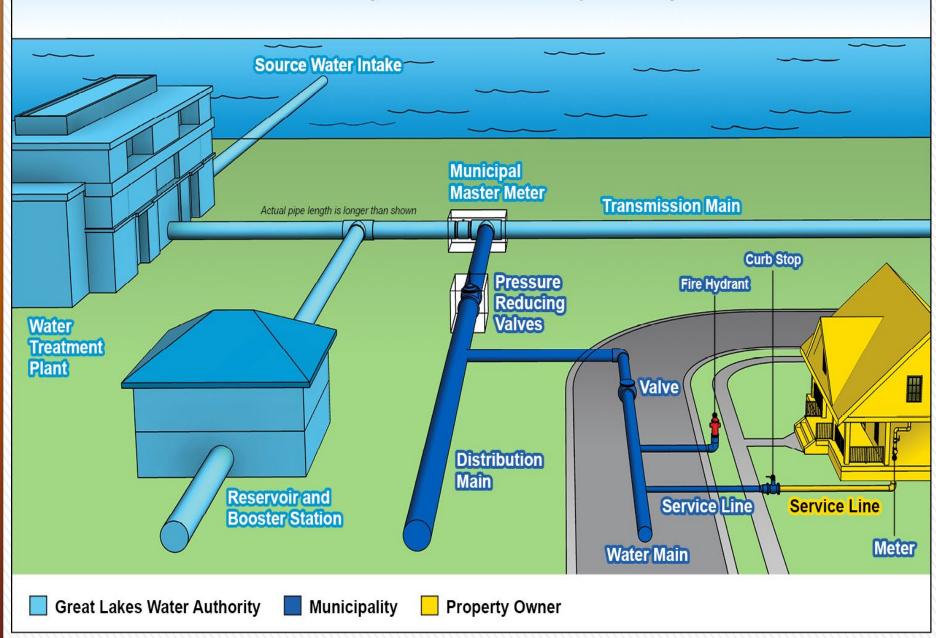


#TimeToBuild

Most Americans' water systems have been in operation for 75-100 years well past their intended lifespans.

### **Infrastructure** Week 衆皇ズ令遠点録

#### Our water system is a shared responsibility.



Older Cities Tend to Have the Greatest Need for Repair Because They Have the Oldest infrastructure.



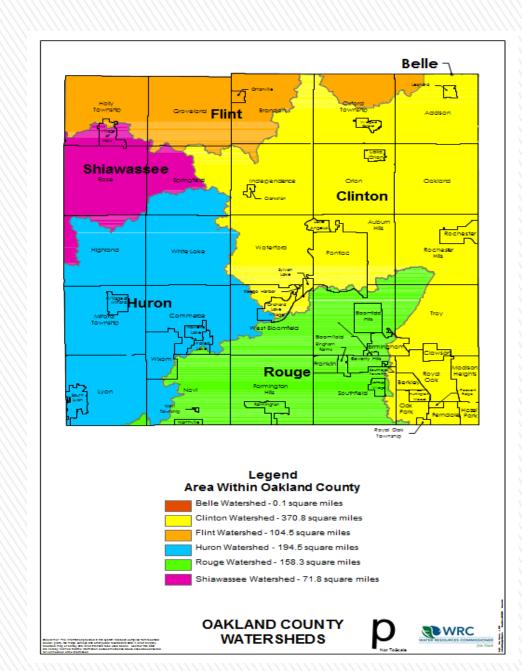
#### Emergency Repairs Can Cost 3 to 5 Times as Much as Planned Improvements





## Stormwater

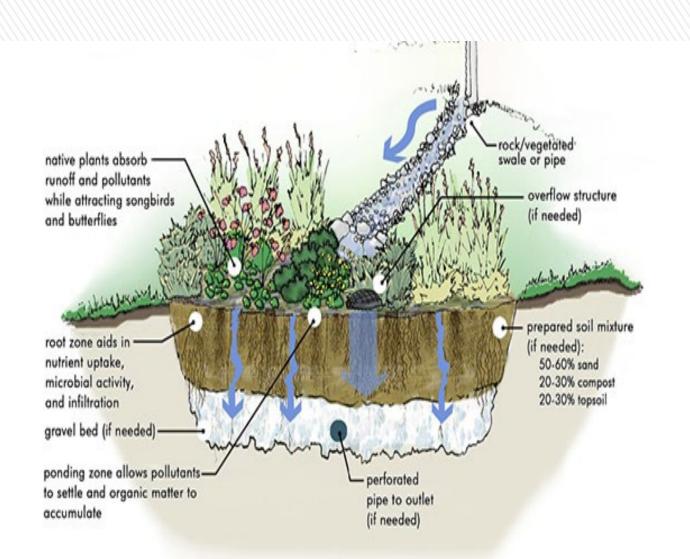




# George W. Kuhn Detention Treatment Basin



### **Rain Gardens**



## Simple Home Green Infrastructure



## Water Quality





#### 2016 Water Quality Report

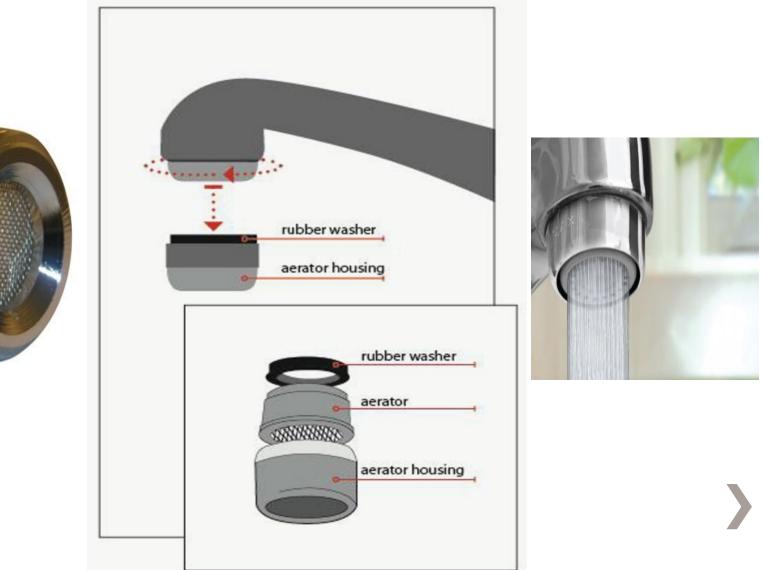
#### Keeping Water Customers Informed



REPORT CONSUMER CONFIDENCE

## Home Infrastructure

#### **CLEAN YOUR AREATOR**





#### Helpful Tips on Reducing Your Potential Exposure to Lead in Your Drinking Water

#### Run Your Tap Until it's Cold

Run your tap for at least 30 seconds, until the water is noticeably colder, before using it for drinking, cooking or making baby formula any time the water in a faucet has stood for several hours.

#### Use Cold Tap Water for Drinking, Cooking and Making Baby Formula

Never use hot tap water for drinking, cooking or making baby formula and baby cereal. Lead can dissolve more easily in hot tap water.

#### Do Not Boil Water to Remove Lead

Boiling water will not remove lead and can actually concentrate it. Running the tap is the best way to flush lead from water in pipes.

#### **Clean Your Faucet Screens**

Sometimes lead and sediment can build up on the individual screens at your faucets. To clean them, periodically take off the faucet strainers from all taps and run the water for 3 to 5 minutes.

#### Test for Lead

If you still think that your household plumbing could contain lead after following these steps, call the Oakland County Health Division at 800-848-5533 to request a lead test kit. There is a \$24 kit fee.

To email go to: NOC@OakGov.com

#### Who do I contact for more information?

The local water authority is always your first source for testing and identifying lead contamination in your tap water. For more detailed information on Lead contamination, please call the Oakland County Health Division Nurse on Call at 1-800-848-5533 or visit:

- Centers for Disease Control and Prevention <a href="http://www.cdc.gov">http://www.cdc.gov</a>
- United States Environmental Protection Agency <a href="http://www.epa.gov">http://www.epa.gov</a>
- Michigan Department of Environmental Quality <a href="http://www.michigan.gov/deq/">http://www.michigan.gov/deq/</a>
- NSF International <u>http://www.nsf.org/consumer-resources/what-is-nsf-certification/</u>

#### PFAS

What you should know about the man-made perfluoroalkyl and polyfluoroalkyl substances (PFAS), such as perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS). PFAS, PFOA and PFOS are part of a group of chemicals that have been in manufacturing, firefighting, household products and many consumer products for the last century. For more information, view links below:

https://www.atsdr.cdc.gov/pfc/docs/pfas\_fact\_sheet.pdf https://www.michigan.gov/documents/pfasresponse/PFAS\_in\_Drinking\_Water\_624844\_7.pdf https://www.michigan.gov/pfasresponse/0,9038,7-365-86509---,00.html https://www.michigan.gov/pfasresponse/ https://www.ngwa.org/docs/default-source/default-document-library/pfas/pfas-info.pdf https://www.oakgov.com/health/information/Pages/PFAS.aspx

For additional resource information, see below: MDHHS can help with questions related to public health recommendations. Call MDHHS at 1-800-648-6942

**MDEQ** can help with questions about water sampling. Call the MDEQ Environmental Assistance Center at 1-800-662-9278

#### How You Can Protect Our Infrastructure

### $\rangle\rangle\rangle$

#### PREVENT THE CLOG, DON'T FOG!



Protect our environment and keep drains clear of fats, oils and grease.



#### WHAT IS FOG?

FOG stands for fats, oils, and grease produced from food preparation, packaged foods and food scraps. FOG should never be put down any sink drain. FOG should only be disposed into the trash.

#### Where Does It Come From?

Homes, restaurants, schools, churches, food processing plants, hospitals, hotels, shopping malls, and mary other establishments produce FOG; for example, from fries and hamburger grease.

> •Meat Fats •Lard •Cooking Oils •Butter •Margarine •Shortening •Sauces •Dressings •Cooking Scraps •Dairy Products

#### Improper FOG Disposal Causes:

- An increase in sewer rates that customers pay.
  Costly sewer backups and overflows created, can
- Costry sewer backups and overnows created, can lead to public health and environmental hazards.
   FOG build-up in sewer pipes is costly to clean.
- It contributed to more than \$300,000 in sewer cleanings to remove blockage by WRC in 2017.

#### WHAT CAN I DO?

- Never pour oil and grease down the sink, toilet or any drains.
- Put used oil and grease in covered containers and cans for proper disposal.
- Wipe down greasy pots and pans with a dry paper towel and dispose the paper towel into the trash.
- Scrape food scraps and discards into the trash and avoid using the garbage disposal.
- Don't rely on a garbage disposal to get rid of grease

   it grinds it into smaller pieces and it doesn't keep grease
  from going down the drain.
- Don't run hot water over greasy pans or use hot water to wash grease down the drain. The grease will eventually cool and congeal (stick together) in your pipes.







## Don't Flush "flushable wipes" or Anything but Toilet Paper and What You Produce !



## Ragging is caused by flushable wipes



## Community Action Alliance Water Residential Assistance Program







### Contact WRC at 248-858-0968

Email at wrc@oakgov.com

