




**VIRGINIA
AMERICAN WATER**


Park Fairfax Meeting

February 17, 2016



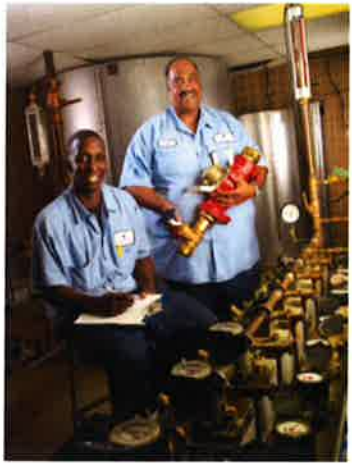


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Purpose of Today's Meeting

- Introduce Virginia American Water and Local Team
- Main Replacement Projects
- Main Break/Emergency Communications



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American Water

- **We're the largest investor-owned water and wastewater service provider in the U.S.**
- **130 years in business**
- **We serve nearly**
 - 15 million people
 - in 1,600 communities
 - in 47 states and parts of Canada
- **Employ nearly 7,000 dedicated employees**
- **Treat and deliver more than one billion gallons of water daily**




AMERICAN WATER OPERATIONS


Legend:
■ Regulated
■ Market Based
■ Both

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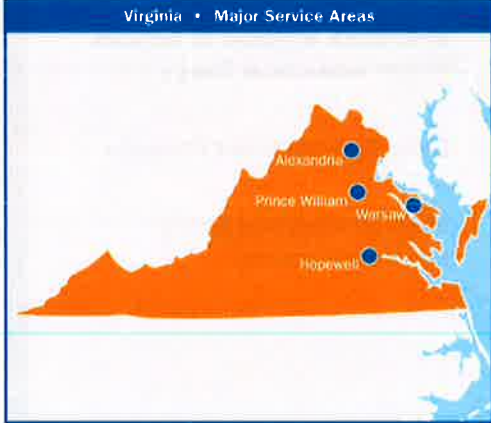


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Virginia American Water


- **Four Districts serving 62,414 customers**
 - Alexandria, 26,040 customers
 - Hopewell, 9,345 customers
 - Prince William, 19,581 customers
 - Eastern, 2,568 customers (small systems)
- **Ft. Lee military base**



Virginia • Major Service Areas

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Your Water Supply


- Purchased from Fairfax Water
- Two treatment plants
 - Corbalis (Reston)
 - Griffith (Lorton)
- Surface water (Potomac River, Occoquan Reservoir)


Disinfectant Used

- Chloramines (chlorine and ammonia)
- Stable and persistent
- Limits bacterial growth in distribution system
- Less reactive, so produces fewer disinfection by-products
- Does not lead to strong "bleach" taste and smell

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Springtime Disinfection Switch


Switch to chlorine (called free chlorine) to flush the distribution system (April, May, June)

- Prior notice sent to customer
- Cleans distribution system
- Removes sediments and pipe rust
- Prevents the growth of specific bacteria leading to nitrification
- Less likely to lead to fish kill when discharged into a stream
- Strong "bleach" taste and smell




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Your Service Line




The diagram illustrates the ownership of water infrastructure. A blue house is shown on a green lawn. A dashed line indicates the 'Property Boundary'. A 'Water Main' runs along the street. A 'Water Service Line' connects the house to the water main. An 'Isolation Valve' is located near the house. A 'Water Meter (alternate positions)' is shown at the point where the service line meets the main.

Customer owns the pipe from the house to the meter. Virginia American Water owns it from the meter to the street.

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Main Replacement Projects

Replacing infrastructure to enhance water service reliability and fire protection.



Year 2014

Location	new pipe size	Length (ft)
Prince Street (from West to Fayette)	8"	650
Green Street & S. St. Asaph ST	8"	1460
Peele Place	4" & 6"	340
David, Central, Farm, Ridge	6"	1,700
Wheeler Ave (3600 BLK)	12"	970
Jordan and Wheeler (Year 2014)	12"	650
Taney Ave (already constructed)	12"	1,900
S. Columbus ST	12"	850
N. Henry ST (from Wythe to Princess)	12"	1320
Total	Feet	9,840
	Mile	1.88

Year 2015

Location	new pipe size	Length (ft)
Masonic View & Johnston	8" & 6"	1,230
Putman, Highland, Moncure	4" & 6"	1000
Venerable, Iris, Vermont, Gordon (2015)	12"	2,650
Taney Ave (2015)	12"	1,350
Jordan & Holmes Run & Jenkins (2015)	8"	2,333
Ingalls Ave	6" & 4"	1,160
E. Spring ST, W. Masonic View Ave	6" & 4"	1,200
Commonwealth Ave	8"	890
Construct (Princess-King)	12"	1230
Total	Feet	13,143
	Mile	2.49


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**Main Replacement Project
(Martha Custis Dr, Gunston
Rd, and Mt Eagle Pl)**

- Mains date back to 1943
- Purchased from Park Fairfax Apartments in 1978
- Project driven by the age of pipe, and the hydraulic requirement to create a loop and increase flow capacity, as well as to replace non-standard 3" water service line with larger lines.

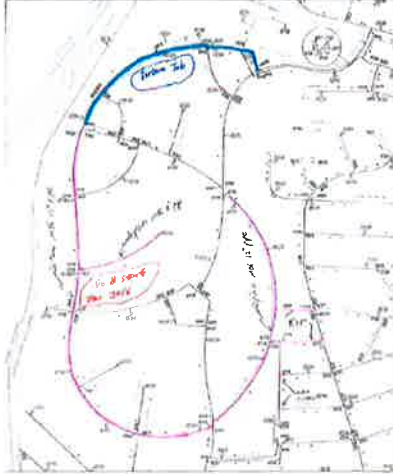
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Main Replacement Project (Martha Custis Dr, Gunston Rd, and Mt Eagle Pl)


- The old pipe is cast iron. The new pipe is ductile iron and we are lining it with a poly wrap encasement.
- We will replace:
 - 5,800 feet of 8" pipe with 12" pipe
 - 600 feet of 6" pipe with 8" pipe
 - 600 feet of 2" pipe with 8" pipe



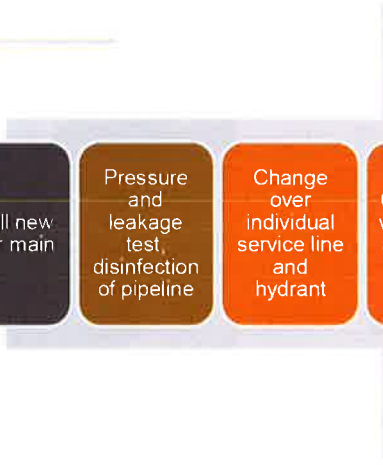
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Main Replacement Project (Construction Sequence)



Install new water main

Pressure and leakage test, disinfection of pipeline

Change over individual service line and hydrant

Cut/cap old water main, abandon in place

Restore final asphalt paving, sidewalk

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Main Replacement Project (Team work)


- **Need City excavation permit, coordinate with City road resurface schedule**
- **Need resident support (maintenance of traffic, reserve parking spaces, closed sidewalks)**
- **Work together with water company operation team (Check/shutdown WV, organize inventory, inspection backup, send out flyers)**
- **Coordinate construction crew (contractor) with developer's job, and our maintenance work (pipe break, etc...)**

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Main Replacement Project (What Residents Can Expect)

- **Traffic Control** - At least one lane open on each street and intersection. Residence ingress/egress open at all times. Traffic plan is reviewed and approved by the City.
- **Public Utility/Emergency Vehicles** - Trash, mail, school buses and emergency vehicles will not be disrupted.
- **Site Maintenance** - Site will be maintained and cleaned each day before contractors have completed work.
- **Noise** - We will be take measures to minimize noise levels. Weekend and night work is not expected.
- **Water service disruptions** - Water service will be disrupted for a few hours at each address while individual service lines are connected to the new main.
- **Work Hours** - Will be 7 am to 6 pm, M-F.

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**WE ARE INVESTED
IN ALEXANDRIA**

Project Overview

The City of Alexandria is currently in the process of replacing the main water line in the City of Alexandria. This project is a major infrastructure project that will improve the reliability and capacity of the City's water supply system. The project will involve the replacement of the existing main water line with a new, larger diameter pipe. This will allow for increased water flow and reduce the risk of pipe failure. The project is expected to be completed by the end of 2016.

Project Location

The project will be located in the City of Alexandria, specifically in the area around the intersection of the main water line and the City's water supply system. The project will involve the replacement of the existing main water line with a new, larger diameter pipe. This will allow for increased water flow and reduce the risk of pipe failure. The project is expected to be completed by the end of 2016.

Project Impact

The project will have a positive impact on the City of Alexandria's water supply system. It will improve the reliability and capacity of the system, which will help to ensure that the City has a sufficient water supply for its residents and businesses. The project will also help to reduce the risk of pipe failure, which can be a major concern for the City. The project is expected to be completed by the end of 2016.



Main Break Facts

What causes a water main to leak or break?

- Movement in the ground or a big change in water temperature.
- Freezing and thawing of soil creates a lot of movement.
- In Alexandria, there are a lot of marine clays which shrink and swell more than typical soils due to changing moisture content.
- Big changes in rainfall cause big changes in their volume.
- Some water mains crack or leak because they have reached their useful life.



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Main Break Facts

How long will the repairs take?

- Length of time for Miss Utility to arrive.
- How quickly we are able to locate the break.
- The nature of the leak.



When will permanent pavement restoration of the area occur?

- Usually several weeks after the leak is repaired to allow time for any additional settling that may occur as the ground dries out.
- We check the integrity of the temporary restoration on a regular basis, but if you see settling or "pot holes" develop, please let us know.



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Main Break Facts

Will water be shut off?

- Sometimes, yes, but usually only for a few hours
- Sometimes, we can make the repair without shutting off the water.

Is water quality affected?



- Usually water quality is not affected by the leak
- Sometimes, when water service is restored, you may notice air in your pipes and the water may be rusty, or yellow brown in color.

How can I stay informed about repair progress?

- We provide updates to the City staff and directly to affected customers.
- We posts updates on [Facebook](https://www.facebook.com/vaamwater/) ([www.amwater/facebook/va](https://www.facebook.com/vaamwater/)) and [Twitter](https://twitter.com/vaamwater) (@vaamwater).
- For large breaks, we post to our Alerts page and use CodeRED

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CodeRED Notification System

If you HAVE an account with us:

- Emergency alerts will automatically be sent to all phone numbers and email addresses we have on record.
- You can enter up to three phone/cell numbers and three email addresses.
- Log on to My H2O Online or call 800-452-6863 to see what phone numbers we currently have on record and while you're there, tell us how you prefer to receive alerts and notifications (Phone, Text and Phone, or Email).


When EMERGENCIES strike, how can we reach you quickly?


PHONE	E-MAIL	TEXT
		

Visit amwater.com/myh2o to enter your contact info today!


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CodeRED Notification System





For those (tenants) who do NOT have an account with us

- Download the free CodeRED Mobile Alert app to receive location-specific alerts on your smartphone.
- Those who sign up will receive our alerts along with other public safety information sent by organizations using CodeRED.
- Download the app at www.ecnetwork.com/coderedmobilealert.

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Thank you!

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