

# Yorktown Consolidated Water District



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**914-245-6111**

## *When it all began*



Public water came to Yorktown in 1930. The commissioners of the water board are, from left to right, Samuel S. McBride, Mortimer F. Mckeel, James H. Harding, and Edward L. Dunning.



# Yorktown Consolidated Water District

- Where Does Our Water Come From?

Water is supplied by Northern Westchester Joint Water Works thru the following:

- NYC Water Supply System

- Amawalk Treatment Plant, Somers, NY
- Catskill Treatment Plant, Cortlandt, NY
- Also purchase from Town of New Castle and sold to IBM Corporation and the Kitchawan Water District of Yorktown



# Yorktown Consolidated Water District

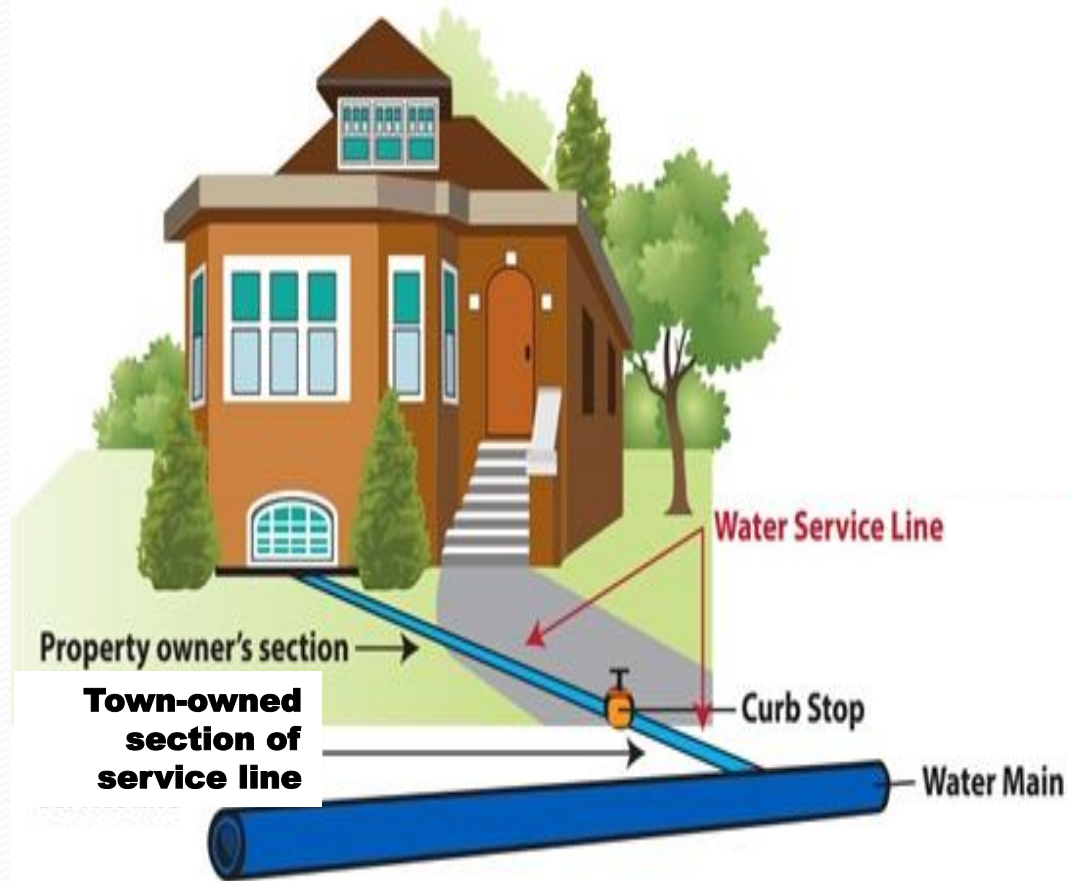
- What major roles does the Northern Westchester Joint Water Works play for the Yorktown Water District?
  - Has been supplying water to the Town of Yorktown since 2000
  - Operates Catskill and Amawalk filtration treatment plants
  - Provides water billing services for the Water District including customer billing/usage questions and concerns
  - Provides daily water quality bacteria testing and reporting to appropriate agencies
  - Coordinates with contracted lab services for regulatory water sampling (lead/copper, disinfection bi-products etc.)

# Yorktown Consolidated Water District

- Facts and Figures: 2018
  - We are comprised of the Yorktown Consolidated and Kitchawan Water Districts
  - Approximately 993 million gallons of water was purchased from Northern Westchester Joint Waterworks at a cost of \$3.61 per thousand gallons
  - Approximately 781,000,000 gallons of water was sold to metered customers
  - Approximately 21% “Non-Revenue” water primarily lost to semi-annual hydrant flushing, fire fighting, system leakage, water main breaks, and inaccurate water meters.

# Yorktown Consolidated Water District

- Some examples of service provided to Resident
  - Clean water delivered to your home
  - 24/7, 365 days service
  - Daily water testing
  - Fire protection



# Yorktown Consolidated Water District

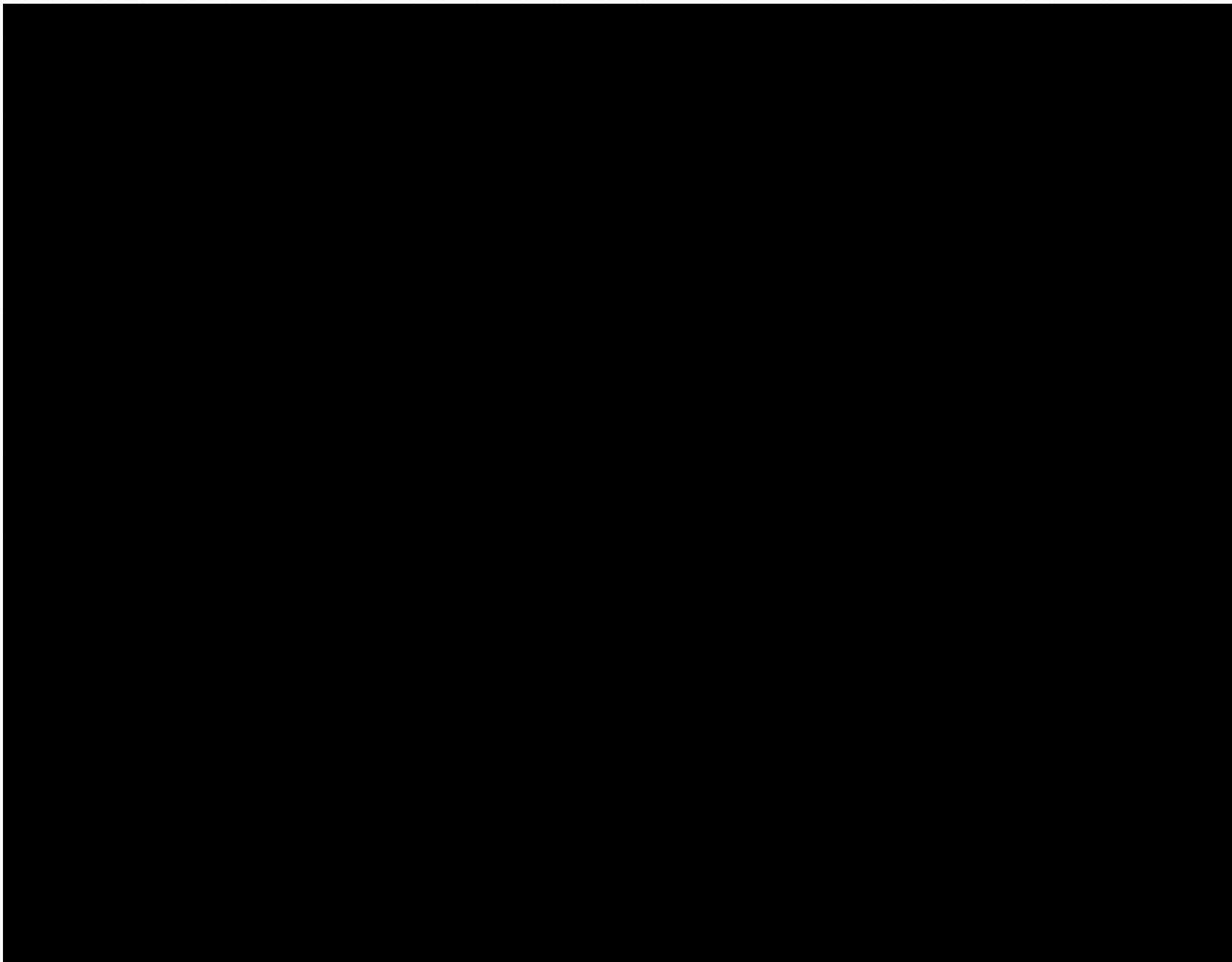
- Personnel Facts and Figures
  - Administration / Office: (2) Employees Full Time, 1 Part-Time
  - Maintenance Division (10) - Meter Division (4)
  - Water Quality Lab: (1) Employee
  - Auto Mechanic: (1) Employee
  - Total Full Time Employees: (18) plus (1) Part Time Employee
  - Billing: Northern Westchester Joint Water Works



# Yorktown Consolidated Water District

- Maintenance Division Operations
  - Services 10,000 connections serving approximately 36,000 people throughout 180 miles of water main ranging in size of 2” to 24
  - Repairs water main breaks/service line leaks (apx. 50 in 2018)
  - Maintains and flushes fire hydrants (1800 town wide)
  - Valve maintenance program (inspects/installs/repairs)
  - Daily Water Testing for coliform bacteria and DOH listed contaminants (apx. 500 samples per year)
  - Upholds compliance with Department of Health cross connection control regulation (over 400 devices of which half is tested by Water District staff)
  - Responds annually to over 1,700 Code 53’s Underground mark outs (fee based)
  - Maintains daily department vehicles and equipment (fleet of apx. 26)
  - Replaces or repairs residential curb box assemblies (apx 200)
  - Performs leak detection (previously contracted out at a cost of apx. \$21,000 annually)
  - Maintains two booster pump stations – French Hill & Quinlan Street
  - Snow plowing and road salting (within Water District boundaries)





# 12" Water Main Break Rt.35 (4/25/18 6:00 AM)

AM)



# Rt.35 Broken 12" Cast Iron Pipe



# New Pipe Installed & Backfilled To Grade (12:30 PM, 9 employees)



Rt.35 Christmas Eve 2018 (8:00 AM – 8:00 PM, 11 employees)



# Rt.35 Black Top



Rt.132 Christmas Morning (5:00 AM, 8 employees)



# Rt.132 Repaired (4:00 PM)





# Yorktown Consolidated Water District

- Meter Division
  - Investigate reports obtained from NWJWW for high usage of residential and commercial properties
  - Set up new water accounts, hand deliver shut off notices
  - Daily read of water meters (30,000 annually)
  - Replace / repair meters
  - Handle resident inquiries and concerns regarding usage, leaky meters, and pressure problems
  - Investigate reports of meter tampering
  - Visit construction site to make sure they are properly set up to accept meters
  - Mark out residential meter pits & curb boxes

WATER FLOW INTO HOUSE PIPING --->

WATER METER WITH REMOTE READER

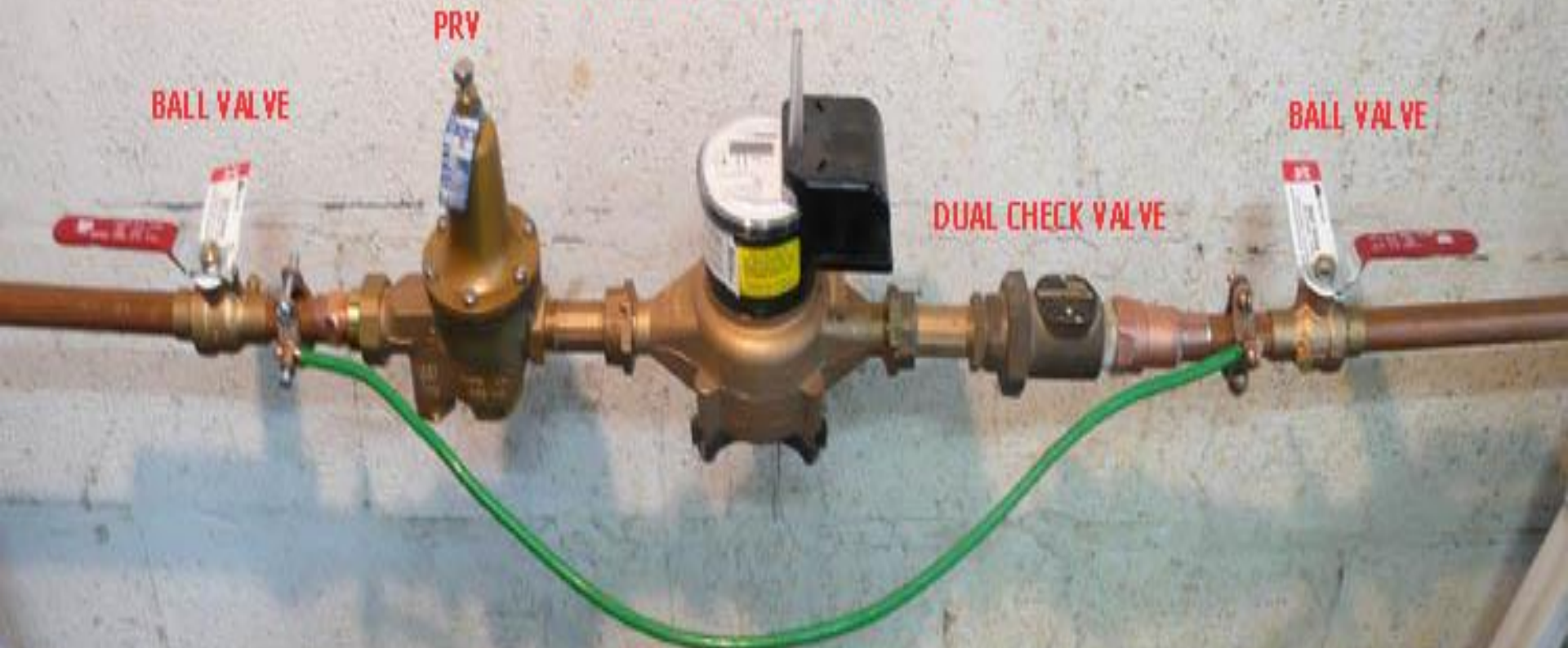
PRV

BALL VALVE

BALL VALVE

DUAL CHECK VALVE

GROUND WIRE "JUMPER"



# Meter Reading Components



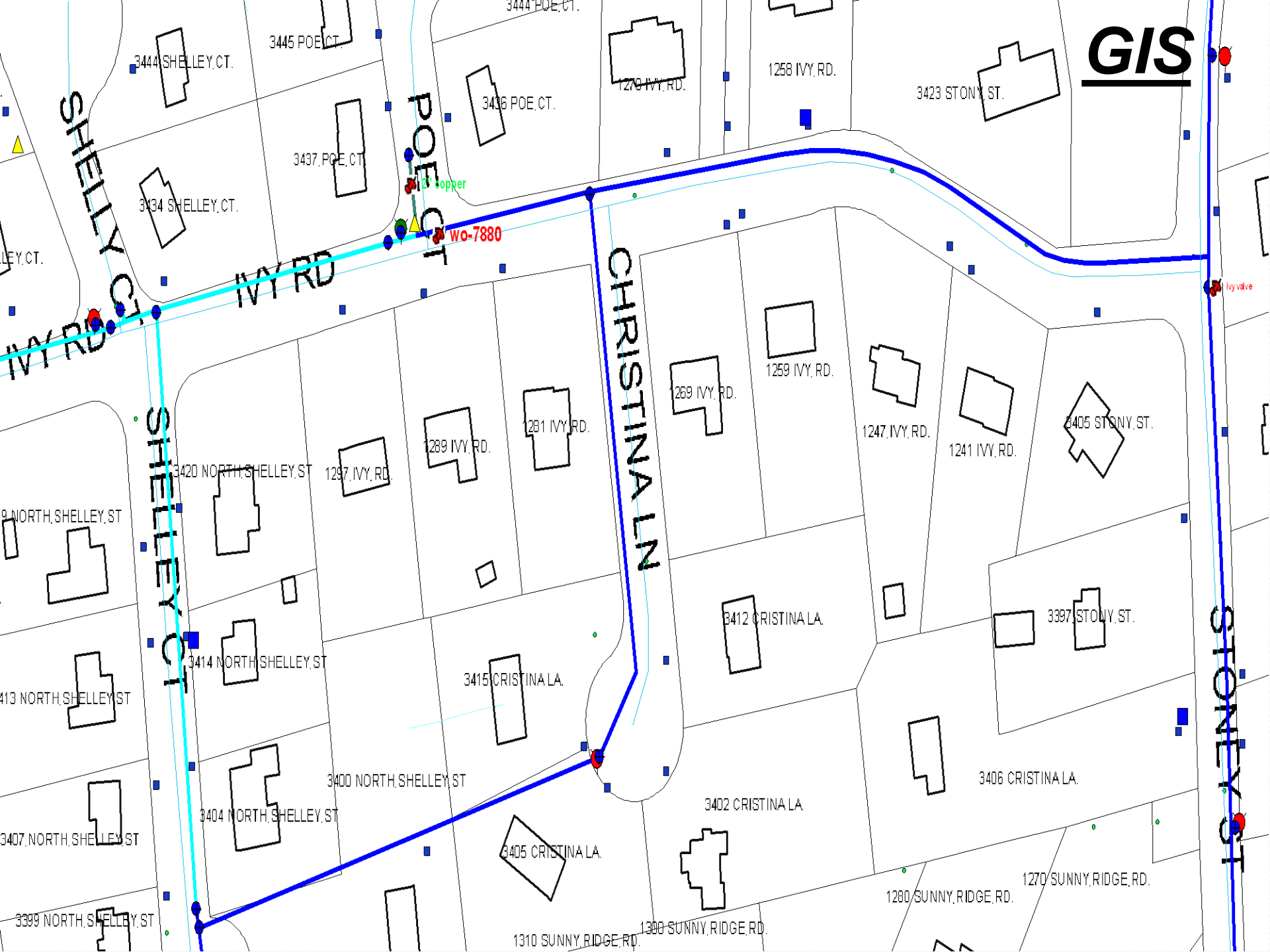
# Don't Let Your Contractor Do This



# Yorktown Consolidated Water District

- Future Projects/Goals

- Complete the fluoride project (\$900,000)
- Cement lining of up to three miles of water main (apx. \$3,000,000)
- Complete the water meter project (apx. 5000 meters = \$2,500,000)
- Build on our Geographic Information System (GIS)
- Have storage tanks inspected and repaired as necessary (TBD)
- Upgrade valve chambers at storage tank locations (TBD)
- Continue to reduce unaccounted water loss percentage
- Research properties that are not in compliance with backflow requirements
- Investigate and eliminate (where possible) dead end mains
- Implement testing of commercial water meters



# Water District Tax Rate

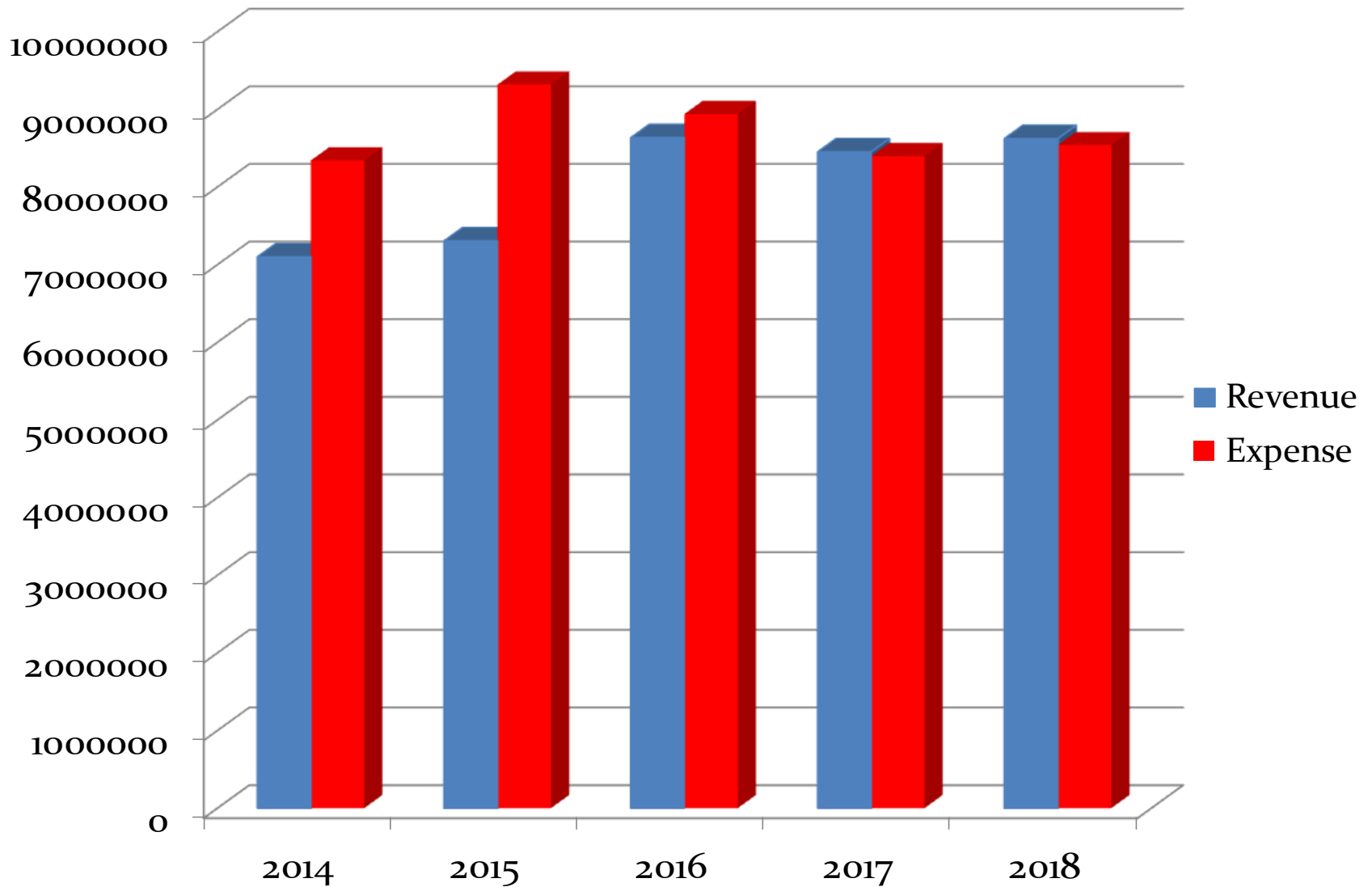


## 10 Year Water Rate History (per 1,000 gals.)





# Revenue vs. Expense



**THIS IS NOT A TAX INCREASE!**

**THIS WATER RATE INCREASE IS BASED SOLELY ON WATER USAGE.**

Rate Increase (per 1,000 gallons)	Per Day Cost to Resident	Per month Cost to Resident	Per Billing Cycle Cost to Resident	Yearly cost to Resident
\$ 0.90	\$0.19	\$5.74	\$22.95	\$68.85

**Note:** The above figures are based on a 4-month billing cycle with an average usage of 25,500 gallons per household.

**Rate Comparison of Surrounding Towns/Villages (per 1,000 gallons)**



# Yorktown Consolidated Water District

- Benefits of Rate Increase
  - Infrastructure improvement & additional maintenance
  - Water tanks maintenance
  - Relining of water mains
  - Equipment maintenance
  - GIS system database upgrade

**Quinlan Tank 1 (.75 mg - 1950)**



**Quinlan Tank 2 (1.0 mg -1956)**



**Quinlan Tank 3 (1.0 mg - 1991)**



**Quinlan Tank 4 (1.5 mg - 1993)**

## French Hill Tank (3.0 mg – 1975)



**Mohegan Tank (0.30 mg - 1934)**



**Mohegan Tank (1.0 mg - 1964)**



# Mohegan Storage Tank original valves from 1934 replaced 2018





## Quinlan Pump Station (constructed 2002)



# Yorktown Consolidated Water District

- HOW CAN WE CONSERVE WATER?

- Automatic dishwashers use about 15 gallons for every cycle, regardless of how many dishes are loaded. So get a run for your money and load it to capacity
- Turn off the tap when brushing your teeth and when shaving
- Check every faucet in your home for leaks. Just a slow drip can waste 15 to 20 gallons a day. Fix it and you can save almost 6,000 gallons per year
- Check your toilets for leaks by putting a few drops of food coloring in the tank, watch for a few minutes to see if the color shows up in the bowl. It is not uncommon to lose up to 100 gallons a day from one of these otherwise invisible toilet leaks. Fix it and save more than 30,000 gallons a year
- Use your water meter to detect hidden leaks. Simply turn off all taps and water using appliances, and then check the meter after 15 minutes. If it moved, you have a leak.



# Yorktown Consolidated Water District

## *In Conclusion*

It is the Yorktown Consolidated Water District's mission to provide the highest quality of drinking water to all our customers. Thank you for all your support and cooperation.

If you have any questions concerning your drinking water please don't hesitate to call our office at 914-245-6111.

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- ❖ Questions?
  - ❖ Comments?
  - ❖ Thank You!

Ken Rundle – Distribution Superintendent

914-245-6111