The Water Outlook: Solutions for Current and Future Challenges

Keynote Speaker

Cheryl Norton
President, New Jersey American Water
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WHO WE ARE

We are the largest and most geographically diverse publicly traded water and wastewater service provider in the United States.

★ We serve a broad national footprint and a strong local presence.
★ We provide services to approximately 14 million people in 46 states.
★ We employ 7,100 dedicated and active employees and support ongoing community support and corporate responsibility.
★ We treat and deliver more than one billion gallons of water daily.
Highly Fragmented Water Industry

Natural Gas Utilities

Electric Utilities

Water Utilities

Highly fragmented industry

Ghndata.epa.gov/ghgp/main.do#

Electric Utilities Source: Form EIA-861 detailed data files
www.eia.gov/electricity/data/eia8

Water Utilities Source: EPA SDWIS Federal Reports Search
www3.epa.gov/enviro/facts/sdwis
Bel Air’s Water Supply Challenges

- Winters Run, Bel Air’s water source, did not provide adequate supply during droughts as required by state regulators. Flows have reached as low as 0.2 mgd.

- Passing flow requirement of 6.07 mgd limited withdrawal from Winters Run during drought.

- Maryland American Water previously purchased extra water from Harford County – not a reliable alternative.

- Reviewed number of possible solutions.
Maryland American Water Solution: Reservoir

Construction 2017-2019
Reservoir Operational – January 2019

- Cost-effective solution
- Built off Winters Run near current water treatment plant
- Water pumped from Winters Run to fill reservoir
- Smaller footprint - 11.5 acres
- Provides 90 million gallons of storage; 100 day water supply
- Added benefit of emergency and redundancy
- Does not impede stream flows
- Does not disrupt local ecology
New Jersey American Water – Pipe Lining Project

- 60” Prestressed Concrete Cylinder Pipe – environmentally sensitive and residential area; South Plainfield NJ
- Condition assessment indicated pipe deterioration/leakage
- Rehabilitation with Innovative Carbon Fiber Pipe lining technology – 3500 Linear Feet
- Construction of access points and isolation valves included
- Critical infrastructure serving >1M customers and very large customers in Linden NJ – refineries, manufacturing
- Picture: pipe section is isolated and cleaning/preparation being performed.
Raritan Millstone
New Jersey American Water’s Largest Water Treatment Plant

https://youtu.be/y8-eGAqgvkg