



SWIFT - The Largest Water Project of Its Kind in the World/ Building the Silicon Valley of Water Tech

Jay Bernas, P.E., GM/CEO

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Regional Wastewater Authority for 20 cities and counties

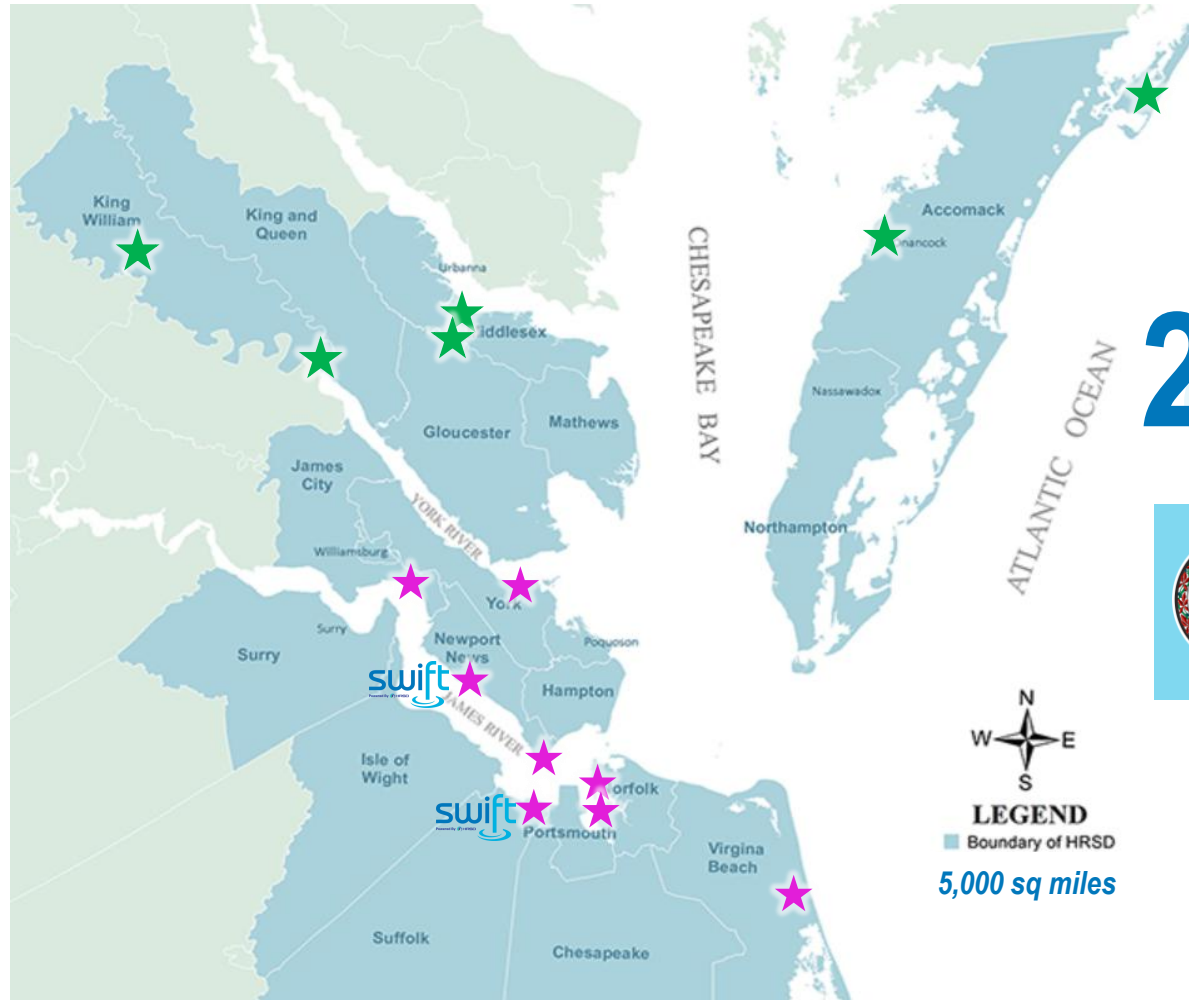
8 MAJOR TREATMENT PLANTS
6 SMALL TREATMENT PLANTS

Top-tier R&D

12 Active Patents
4 Patents Pending

32 Active Water Research Foundation Projects

EPA Science Advisory Board (SAB) Chair - Dr. Charles Bott, CTO



1.9 MILLION INDIVIDUALS SERVED
Over 20% of all Virginians

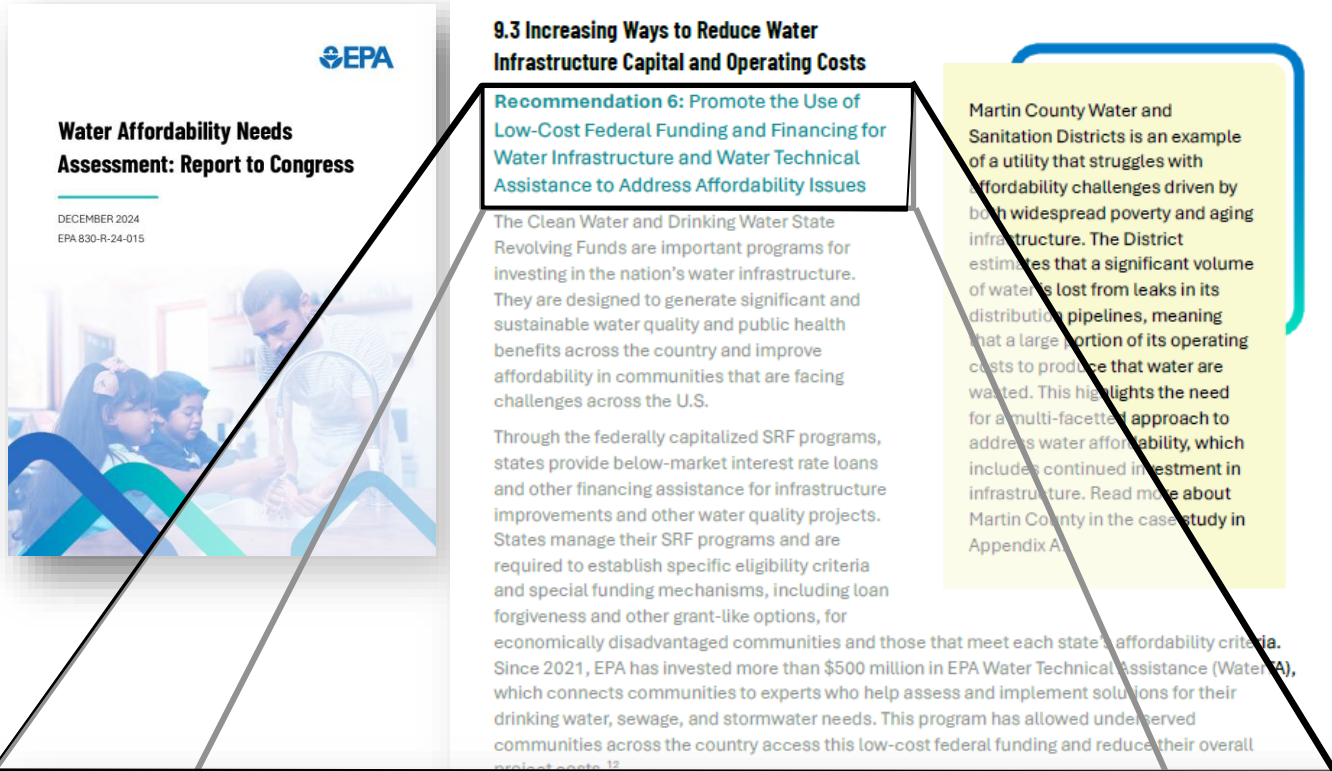
225 MILLION GALLONS PER DAY OF COMBINED TREATMENT CAPACITY

POLITICAL SUBDIVISION COMMONWEALTH OF VIRGINIA

10-YR CAPITAL BUDGET \$3.4 BILLION

Low-cost Financing is Critical for Affordability

- Largest Clean Water SRF Borrower in Virginia
- First WIFIA Programmatic Loan @ \$1.3 billion
- **Saved \$390M** with WIFIA/SRF
- HRSD's Subsidized funding results in **9% lower monthly bills**



The image shows a presentation slide with a background image of a family (a man, a woman, and two children) looking at a water tap. The slide is divided into several sections:

- Water Affordability Needs Assessment: Report to Congress** (EPA logo, DECEMBER 2024, EPA 830-R-24-015)
- 9.3 Increasing Ways to Reduce Water Infrastructure Capital and Operating Costs**
- Recommendation 6: Promote the Use of Low-Cost Federal Funding and Financing for Water Infrastructure and Water Technical Assistance to Address Affordability Issues**
- A text box on the right: "Martin County Water and Sanitation Districts is an example of a utility that struggles with affordability challenges driven by both widespread poverty and aging infrastructure. The District estimates that a significant volume of water is lost from leaks in its distribution pipelines, meaning that a large portion of its operating costs to produce that water are wasted. This highlights the need for a multi-faceted approach to address water affordability, which includes continued investment in infrastructure. Read more about Martin County in the case study in Appendix A."
- A large callout box at the bottom: **Recommendation 6: Promote the Use of Low-Cost Federal Funding and Financing for Water Infrastructure and Water Technical Assistance to Address Affordability Issues**

Total Compliance Cost = \$8.3 B

\$4.4 B

Clean Water Act Compliance (CD/CO)

- Each Locality builds wet weather capacity = \$2.85 B
- HRSD builds wet weather capacity = \$1.51 B



\$3.9 B

Chesapeake Bay Restoration (TMDL)

- Each Locality builds stormwater retrofits = \$2.31 B
- HRSD builds treatment upgrades = \$1.56 B



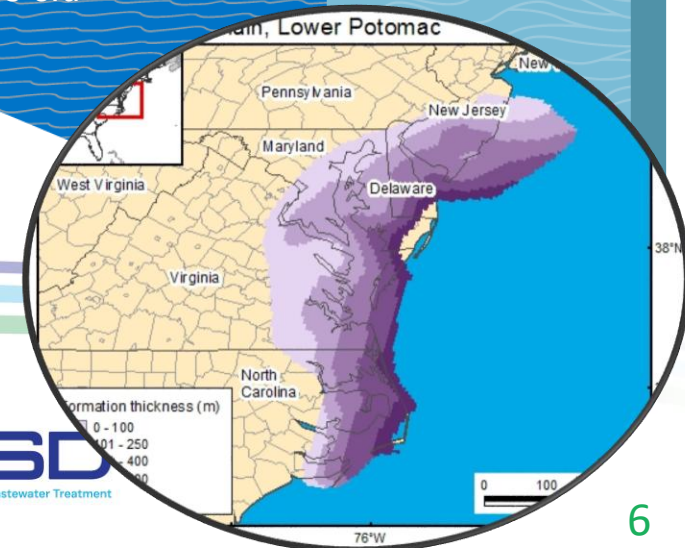
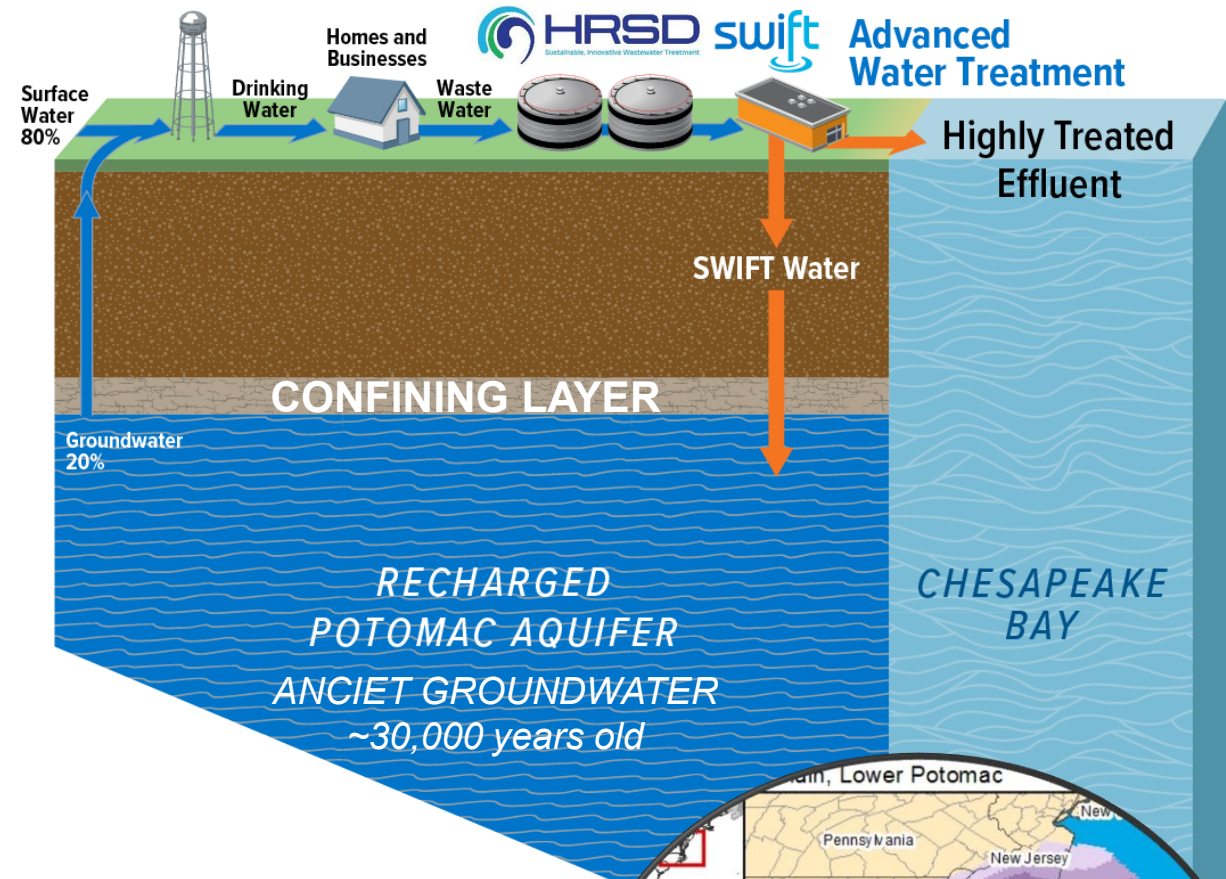
**Lowers
ratepayer
bills by 47%**

**HRSD's EPA Approved
Integrated Plan = \$3.1 B**

swift

SWIFT indirect potable reuse by managed aquifer recharge:

- Reduce nutrient discharge
- Sustainable groundwater supply
- Reduce land subsidence
- Protect from saltwater contamination
- Promote Economic Development



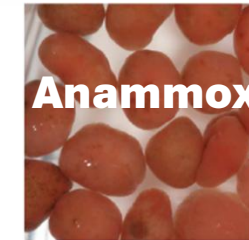
Researching Ways to Keep Our Ratepayer Bills Low

Innovation is the KEY to Affordability

- caIDENSE – could save ratepayers \$400M in Capex
- Mainstream Deammonification (PdNA) saves \$1M per year O&M, eliminated \$100M in Capex
- Digester Gas to Renewable Natural Gas \$0 Capex, +\$400k to \$500k annual revenue
- Built a public skate park on top of a wet weather storage tank in Virginia Beach



X



Building the Silicon Valley of Water Tech in Hampton Roads

HRSD's Innovation Ecosystem – Drive Economic Development

Incubators/Accelerators



Global Utility Partners



Startups



Venture Capital



Industry Partners



Questions?

Jay Bernas, P.E.
GM/CEO
jbernas@hrsd.com

