EESI

AMERICAN RIVERS

Materials will be available at:
www.eesi.org/050726water
Post about the briefing:
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Policies and Financing Solutions to Modernize U.S. Water Infrastructure

Thursday, May 7, 2026

About EESI

Nonpartisan Educational Resources for Policymakers

A bipartisan Congressional caucus founded EESI in 1984 to provide nonpartisan information on environmental, energy, and climate policies

Direct Assistance for Equitable and Inclusive Financing Program

In addition to a full portfolio of federal policy work, EESI provides direct assistance to utilities to develop “on-bill financing” programs

Commitment to Diversity, Equity, Inclusion, and Justice

We recognize that systemic barriers impede fair environmental, energy, and climate policies and limit the full participation of Black, Indigenous, people of color, and legacy and frontline communities in decision-making

Sustainable Solutions

Our mission is to advance science-based solutions for climate change, energy, and environmental challenges in order to achieve ***our vision of a sustainable, resilient, and equitable world***

Policymaker Education

Briefings and Webcasts

Live, in-person and online public briefings, archived recordings, and written summaries

Climate Change Solutions

Bi-weekly newsletter with everything policymakers and concerned citizens need to know, including a legislation and hearings tracker

Fact Sheets and Issue Briefs

Timely, objective coverage of environmental, clean energy, and climate change topics

Social Media (@EESIonline)

Active engagement on Bluesky, Facebook, LinkedIn, X, and YouTube

Upcoming Briefings

National Labs on the Cutting Edge of Climate Solutions
Today!

Rapid Readout: Implications of the U.S. Forest Service Reorganization
Friday, May 15, 2026, 12:00 pm - 12:30 pm

2026 Congressional Renewable Energy and
Energy Efficiency EXPO and Policy Forum
Wednesday, June 24, 2026, 10:00 AM - 7 PM

Sign up for our *Climate Change Solutions* newsletter here: eesi.org/signup

“American Rivers estimates that at least $10 billion annually is needed to adequately address wastewater and stormwater infrastructure demands.” – American Rivers

What did you think of the briefing?

Please take 2 minutes to let us know at:
www.eesi.org/survey

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Thursday, May 7, 2026

Water Infrastructure and Rivers

2026

AMERICAN RIVERS

Our Goal: The rivers in every city and town are clean enough to swim and play in by 2050

Water Infrastructure Investment is Key….and popular.

When informed about the possibility of federal funding cuts to water infrastructure projects, 81% of voters support continued funding.

Polling Research by US Water Alliance

America has a D+ in wastewater infrastructure

American Society of Civil Engineers Infrastructure Report Card

Over the last decade the average number pipe failures for combined water utilities increased from 2 to 3.3 per 100 miles of pipe.

Estimated wastewater infrastructure GAP - $271 billion

Estimated stormwater infrastructure GAP - $115 billion or more

The average bill for residential wastewater customers is increasing from $35 to nearly $65 per month from 2010 to 2020, but locally generated funds still fall short.

American Rivers River City Initiative

Supporting communities' access to water infrastructure funding and financing:

- Atlanta, GA
- Durham, NC
- Grand Rapids, MI
- Holyoke, MA
- Jackson Hole, WY
- Milwaukee, WI
- Philadelphia, PA
- Sacramento, CA
- Tucson, AZ

Financing our Water Ways Factsheet

U.C. Davis Graduate Program Research

- Create a pilot program dedicated to supporting stormwater credit trading
- Support tax incentives for nature-based infrastructure to help homeowners and businesses
- Establish a narrowly defined water infrastructure trust fund to support new wastewater technologies

Life Depends on Rivers℠

AMERICAN RIVERS

Federal Clean Water Investment

Past Success, Present Momentum, anda Looming Cliff

The National Association of Clean Water Agencies

May 7, 2026

NACWA

Matthew McKenna

Director, Government Affairs
NACWA
Washington, DC
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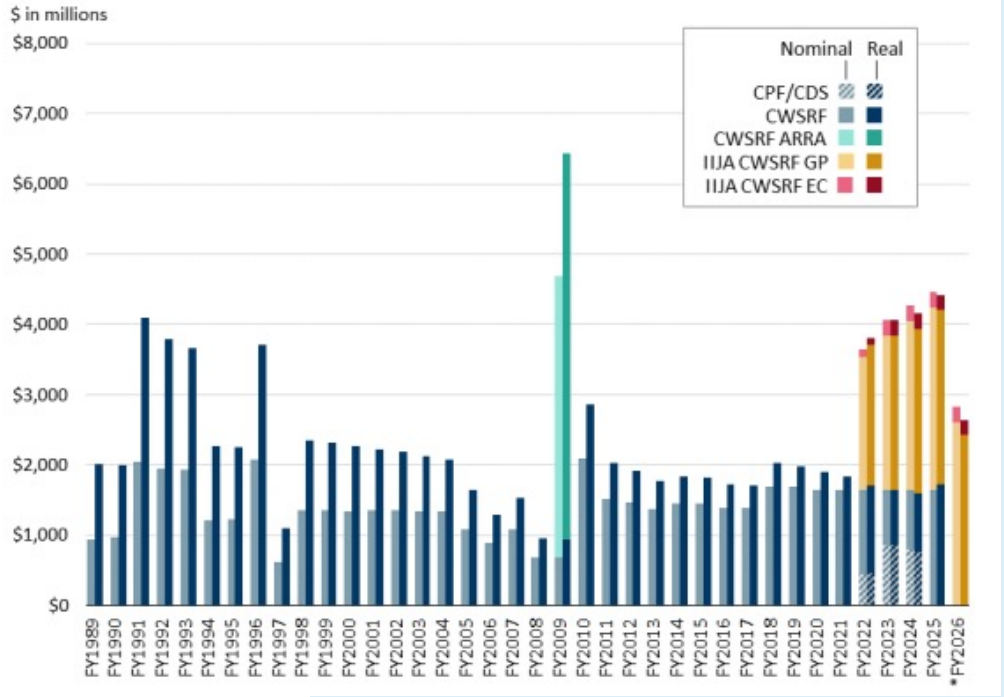
How the Clean Water Act Built America's Wastewater Infrastructure

- The Clean Water Act of 1972 launched a federal construction grants program (Title II) to build wastewater infrastructure
- Provided over $60 billion through 1990, funding treatment plants, pump stations, and sewer systems
- Federal cost-share reached up to 75%, accelerating nationwide clean water gains
- In 1987, Congress transitioned to the Clean Water State Revolving Fund (CWSRF) to create a sustainable, revolving financing model

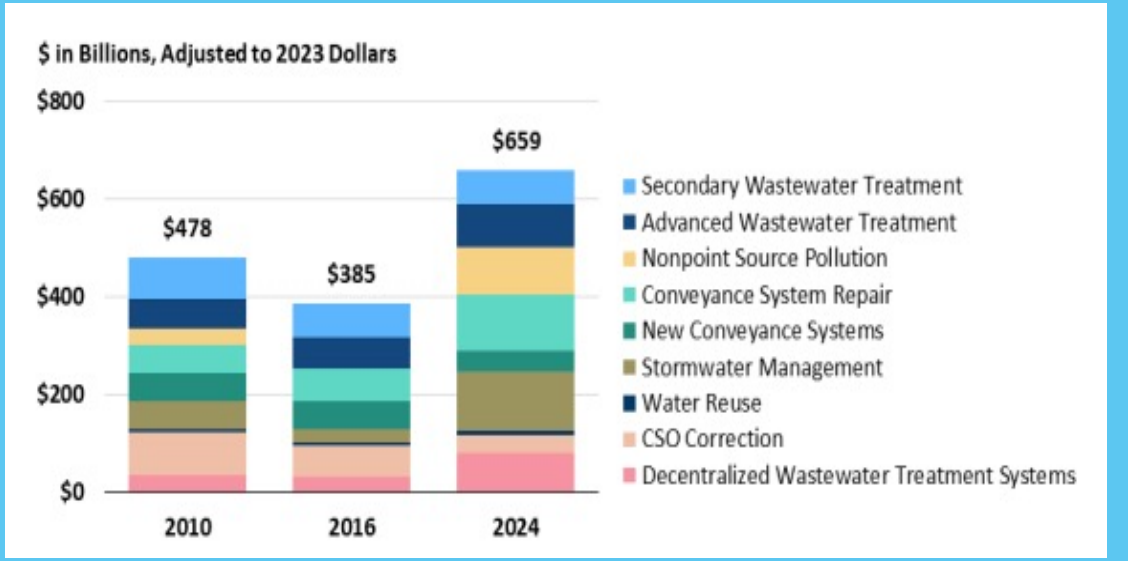
CWSRF: The Backbone of Federal Clean Water Financing

- Since inception, the CWSRF has financed more than $172 billion for over 65,000 projects nationwide
- Operates as a revolving loan fund—repaid dollars are reinvested in future projects
- The Bipartisan Infrastructure Law (IIJA) provided a historic infusion
  - ~$43.4 billion to state SRFs
  - Quadrupled annual SRF funding from ~$2.7B to ~$11.4B (FY22–FY26)
- Designed to supplement—not replace—base SRF funding



EPA's Clean Watershed Survey Shows Needs Are Growing Fast

- EPA's 2022 Clean Watersheds Needs Survey estimates $630 billion needed over 20 years just for clean water
- EPA notes this figure likely understates true national needs
- Total water infrastructure needs increased ~70% since the last survey (2016)
- Drivers include:
  - Aging infrastructure
  - PFAS and emerging contaminants
  - Climate resilience and flooding
  - Cybersecurity risks



The IIJA Funding Cliff After FY 2026

- IIJA funding is scheduled to expire after FY26
- Without congressional action, SRF funding drops back to pre-IIJA levels
- IIJA addressed only ~5% of the estimated $1.2 trillion national water need
- Every state faces significant reductions in available SRF assistance
- While NACWA supports Congressionally Directed Spending (earmarks), concerns remain that reducing state capitalization grants could undermine the long-term sustainability of the CWSRF.

Other Tools in the Federal Funding Toolbox

Beyond SRFs and Congressional Directed Spending, utilities depend on a broader suite of federal financing tools to deliver clean water investments at scale.

- **WIFIA**: Long term, low-cost federal loans for large wastewater and stormwater projects; designed to complement SRFs, not replace them
- **Targeted Clean Water Grants**: Direct grants for priorities like CSOs, SSOs, and stormwater (Sewer Overflow and Stormwater Reuse Municipal Grants Program)—especially important for small and distressed communities
- **Tax Exempt Municipal Bonds**: The foundation of water infrastructure finance, keeping borrowing costs low and protecting ratepayer affordability

Thank You!

Matthew McKenna

Director, Government Affairs

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www.nacwa.org

The National Association of Clean Water Agencies

May 7, 2025

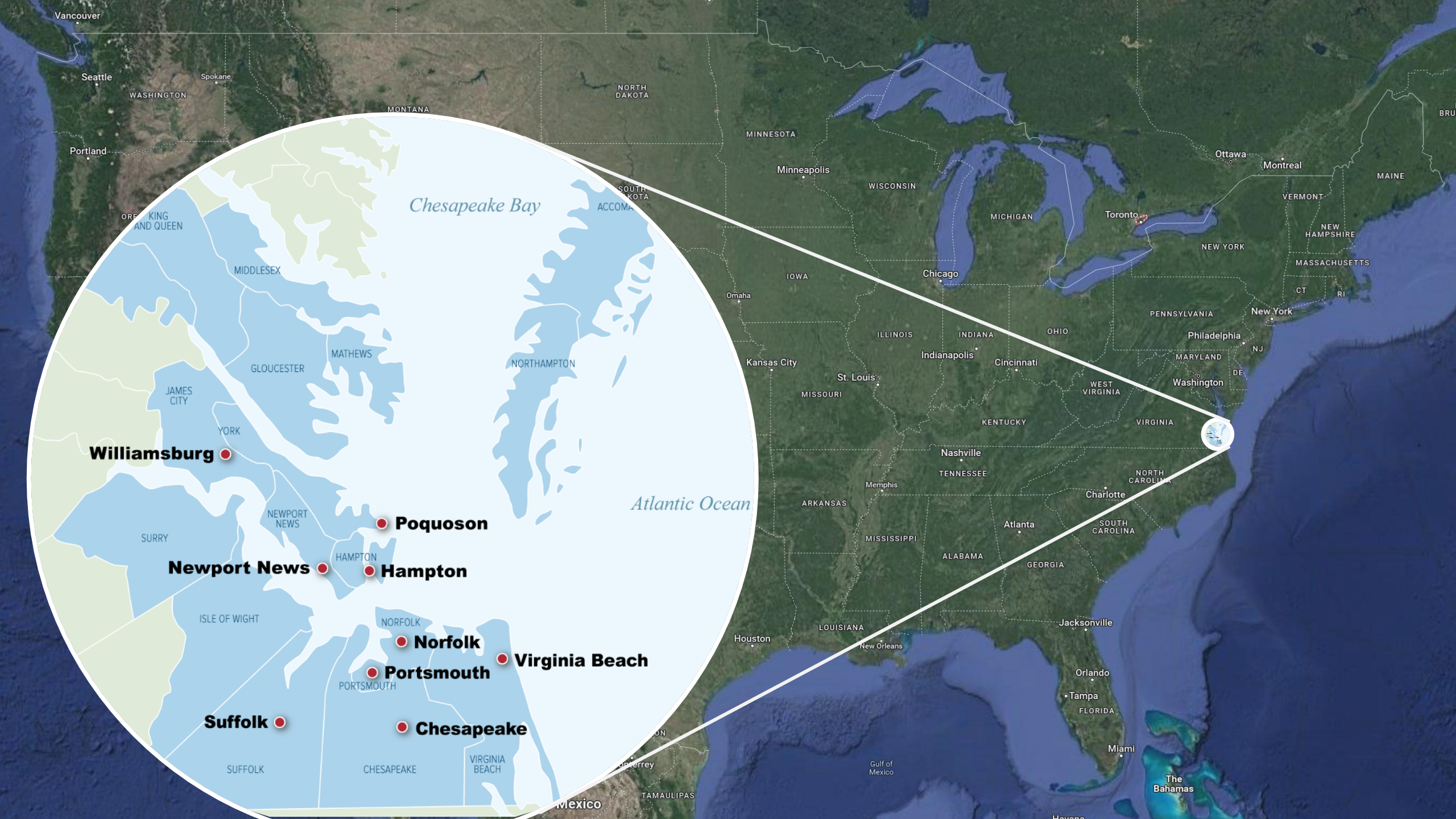
NACWA

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

Jay Bernas, P.E., GM/CEO

May 7, 2026

HRSD Sustainable, Innovative Wastewater Treatment | swift Powered By HRSD


Chesapeake Bay
Atlantic Ocean
Williamsburg
Poquoson
Newport News
Hampton
Norfolk
Virginia Beach
Portsmouth
Suffolk
Chesapeake
JAMES CITY
YORK
MATHEWS
GLOUCESTER
MIDDLESEX
NORTHAMPTON
NEWPORT NEWS
SURRY
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ISLE OF WIGHT
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CHESAPEAKE
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ARKANSAS
NORTH CAROLINA
Charlotte
Atlanta
SOUTH CAROLINA
MISSISSIPPI
ALABAMA
GEORGIA
LOUISIANA
Houston
New Orleans
Jacksonville
Orlando
Tampa
FLORIDA
Miami
The Bahamas
Gulf of Mexico
TAMAULIPAS
Mexico

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

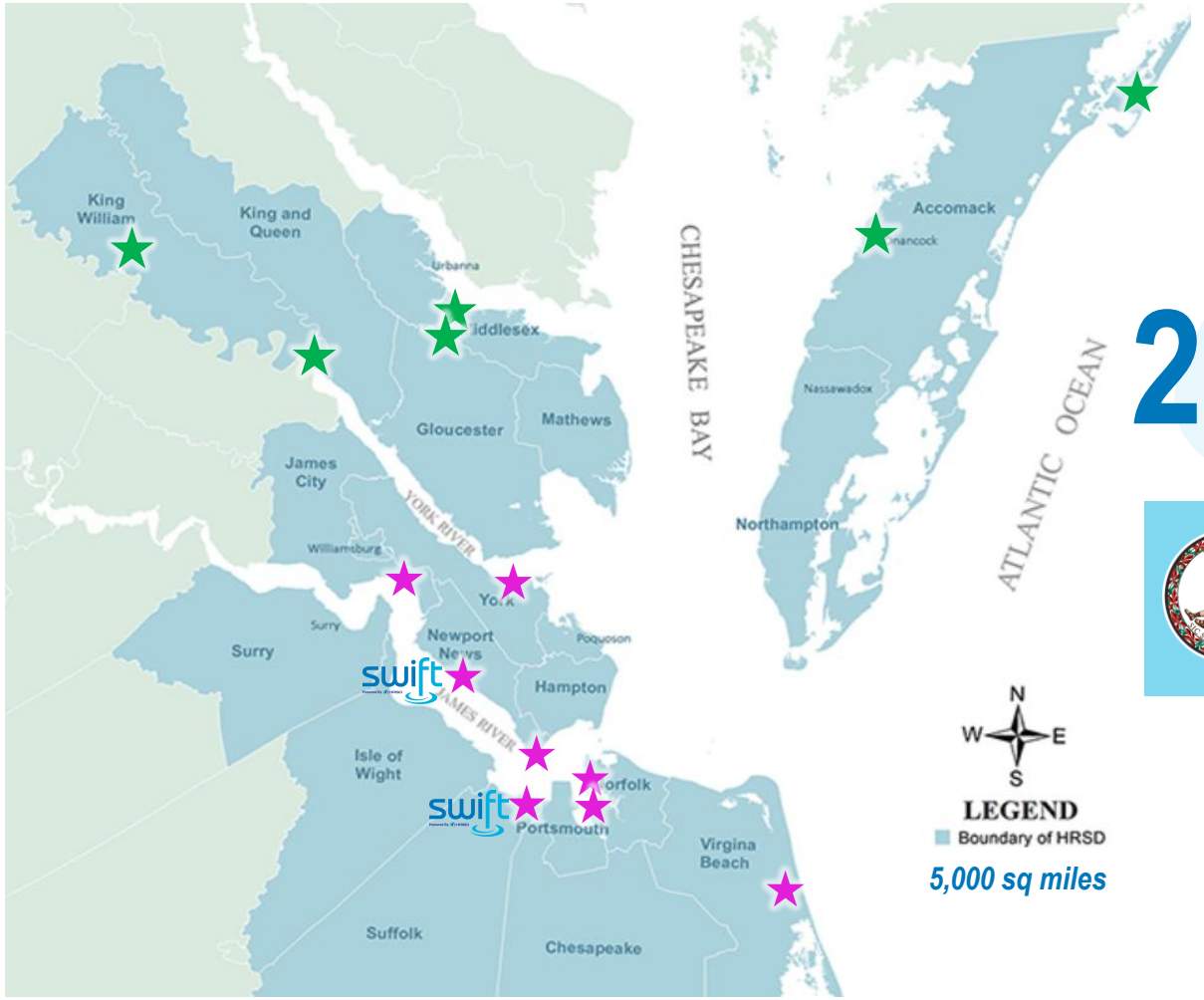
THE Water Research FOUNDATION®

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

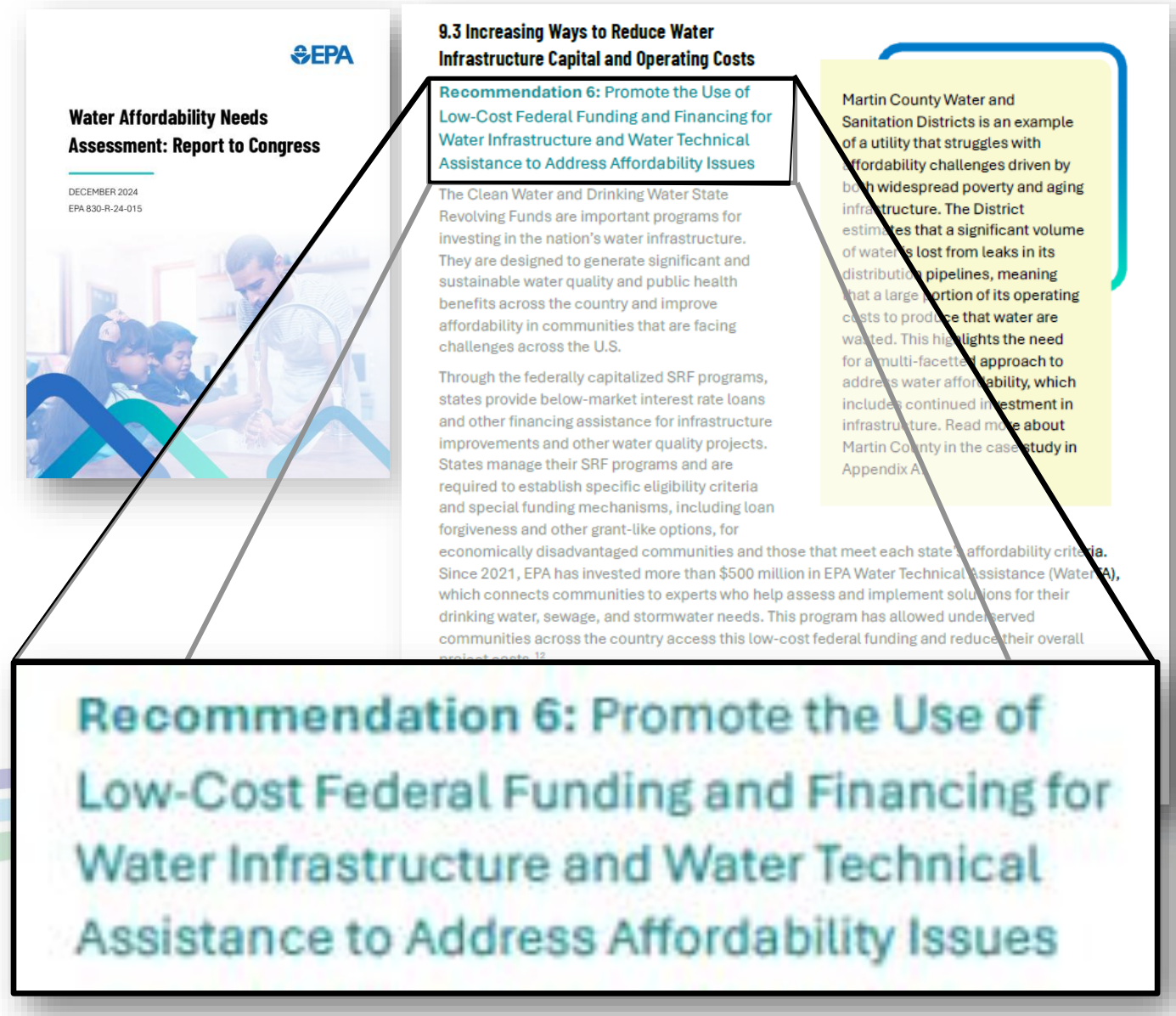
POLITICAL SUBDIVISION COMMONWEALTH OF VIRGINIA

10-YR CAPITAL BUDGET **$3.4 BILLION**

HRSD Sustainable, Innovative Wastewater Treatment

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**



HRSD saved the region $5.2 billion

ODU Dragas Center for Economic Analysis and Policy

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

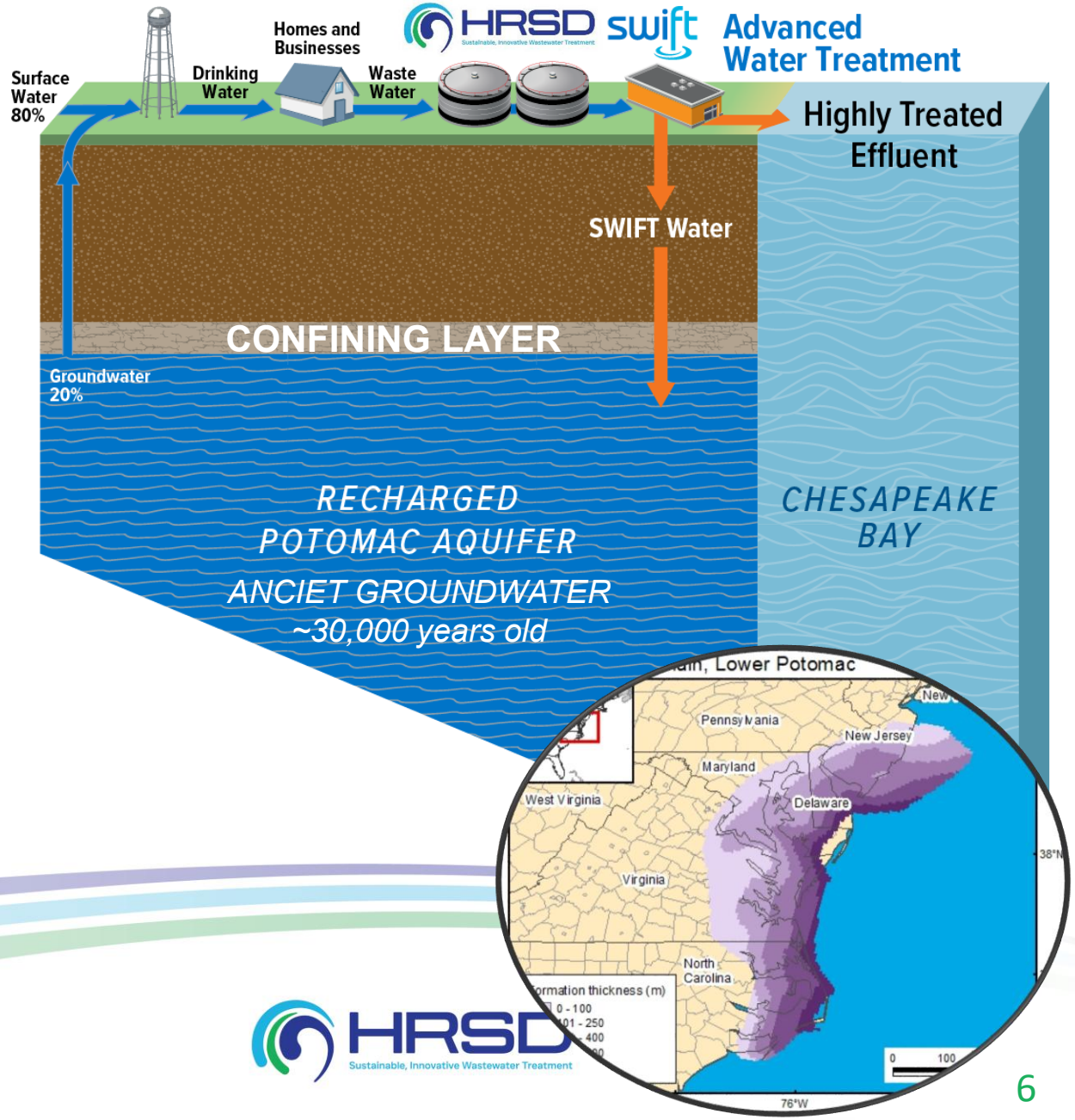
swift

HRSD swift

swift Sustainable Water Initiative for Tomorrow
POWERED BY HRSD

SWIFT indirect potable reuse by managed aquifer recharge:

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

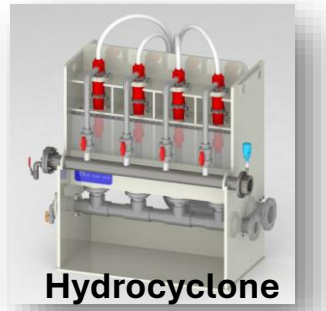


Researching Ways to Keep Our Ratepayer Bills Low

Innovation is the KEY to Affordability

- calDENSE – 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

CREW CARBON x HRSD inDENSE process intensification by densified biomass



Virginia Natural Gas

HRSD Sustainable, Innovative Wastewater Treatment

Building the Silicon Valley of Water Tech in Hampton Roads

HRSD's Innovation Ecosystem – Drive Economic Development

Incubators/Accelerators

RISE Resilience Innovations

CLIMATEHAVEN WATER INNOVATION HUB — Commercialization and deployment of advanced water technologies to address critical water challenges.

xylem Let's Solve Water

Virginia Tech

YALE

UCONN HUSKIES

757 COLLAB

INNOVATE HAMPTON ROADS

IMAGINE H2O

Global Utility Partners

Watercare An Auckland Council Organisation

aarhusvand

PUB SINGAPORE'S NATIONAL WATER AGENCY

K water

Startups

CREW

EAOS

TeamSolve

AM Team

WINTEC GLOVIS

TØ3 TIDEWATER TRIDENT TECHNOLOGIES

Jefferson Lab Radiance e-beam Co.

Venture Capital

S2G

PureTerra Ventures

MELIORATE PARTNERS

FERGUSON VENTURES

SNØCAP

Burnt Island Ventures

Ember Infrastructure

Aqualateral

XPV WATER PARTNERS

Industry Partners

GARNEY

meb.

TOMORROW WATER

PENTAIR

RV

WASTE MANAGEMENT

world water works

xylem

VEOLIA

Hazen

AECOM

Virginia Natural Gas

FERGUSON

Questions?

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HRSD Sustainable, Innovative Wastewater Treatment

swift