



Saving the Bay Begins with YOUR Waterway



CHESAPEAKE BAY FOUNDATION

Saving a National Treasure

Chesapeake Bay Foundation

Mission – “*Save the Bay*”

- ~274,000 Members (~85,000 or 31% in VA)
- 189 Full Time Staff

CBF Works to Save the Bay through...

- Education
- Restoration
- Advocacy
- Litigation (when all else fails!)



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- Richmond
- Virginia Beach
- VA Oyster Restoration Center in Gloucester
- Field Staff throughout Shenandoah Valley



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Where We Work In Virginia

- Net Zero Energy
- Net Zero Water
- Salvaged Materials
- No Storm water Runoff
- “Red List” (No Toxics)
- Climate Resilience



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Brock Environmental Center, Virginia Beach

- Fishing
- Charters
- Hospitality Industry (hotels, restaurants, street food, souvenir shops, etc.)
- Kayaking/ Canoeing
- Boating (propeller)
- Board Sports
- Relaxing on the beach



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Tourism & Recreation



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Fisheries



Brian Lockwood



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Natural Wonder



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Bragging Rights



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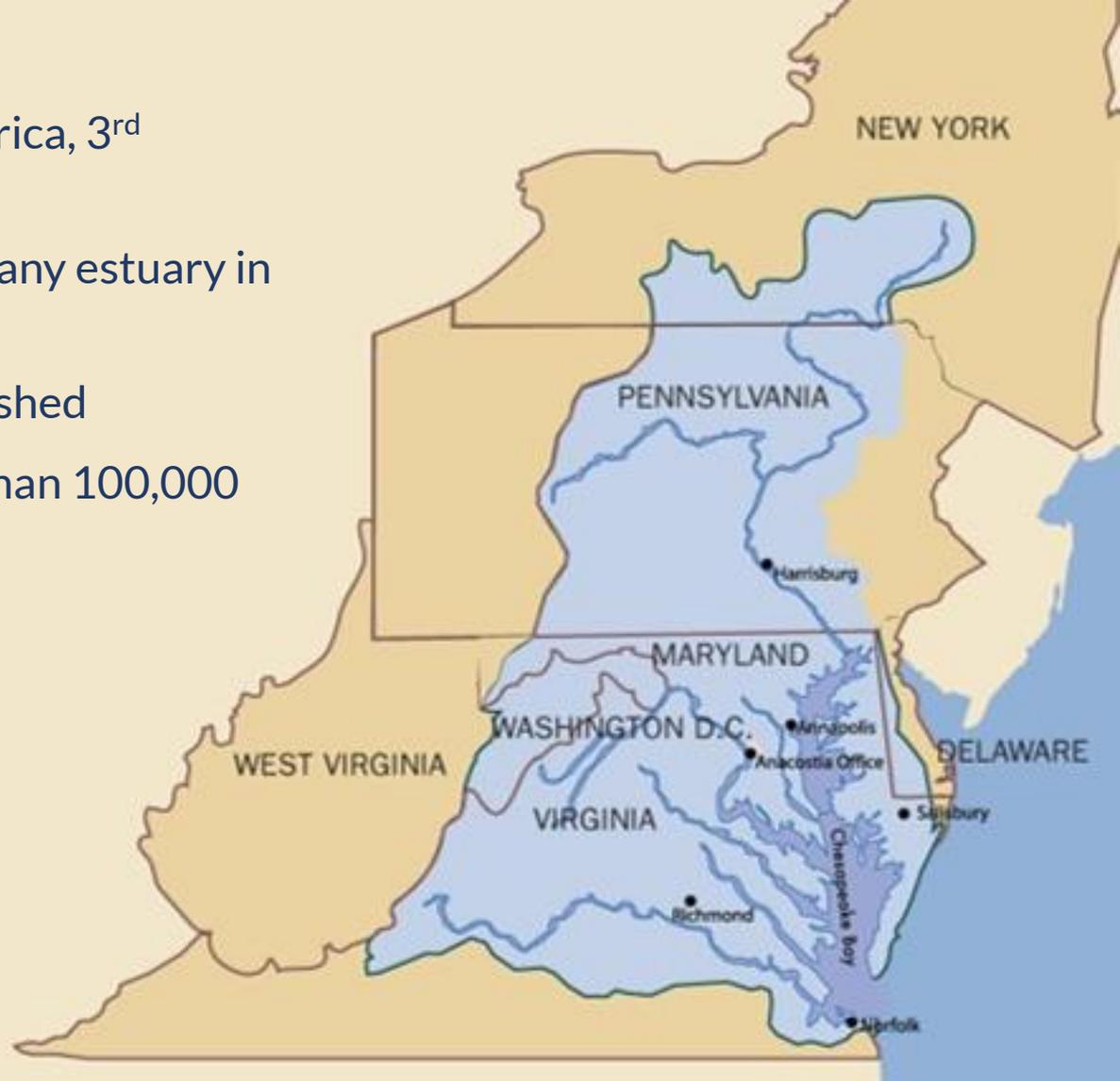
Legacy



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Reality

- Largest estuary in North America, 3rd Largest in the World
- Largest land-to-water ratio of any estuary in the world (14:1)
- 64,000 Square Miles of Watershed
- 50 Major Tributaries & more than 100,000 rivers and streams!
- Average depth ~ 22 feet
- Over 3,600 species of plants and animals
- 18 million people
- Massive Economic Engine

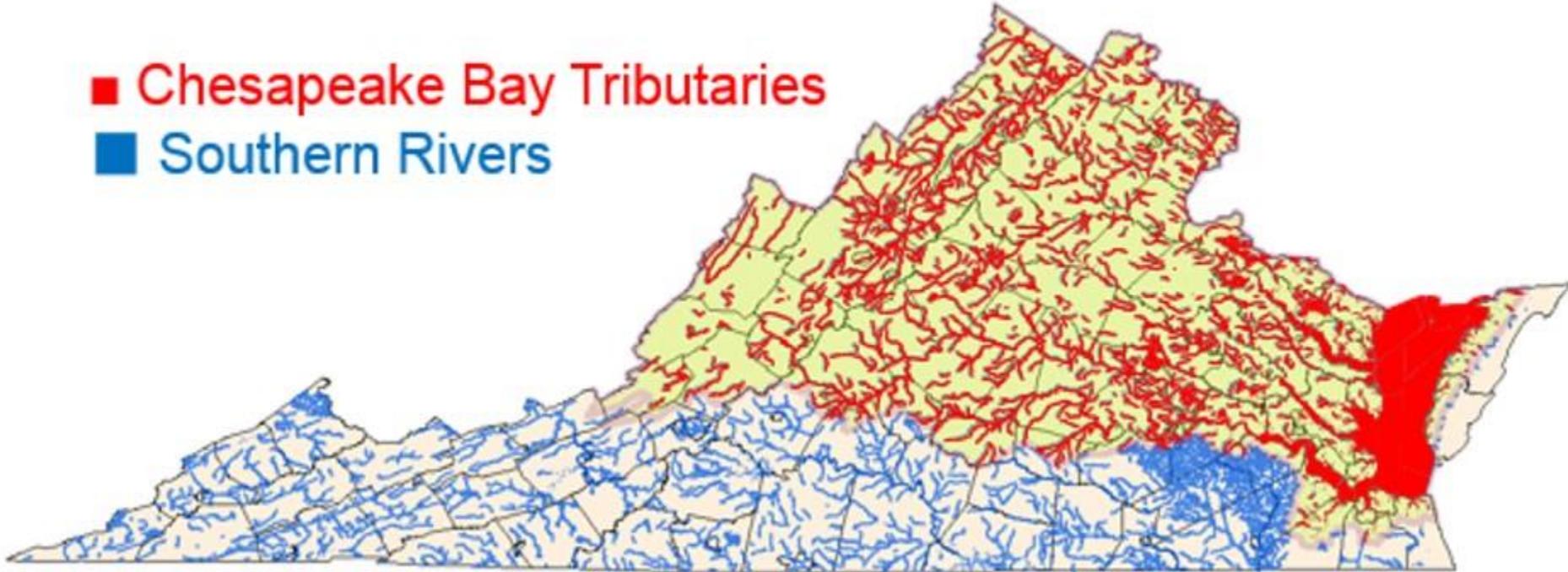


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Chesapeake Bay Watershed

13,000 miles of Virginia streams and rivers fail water quality standards

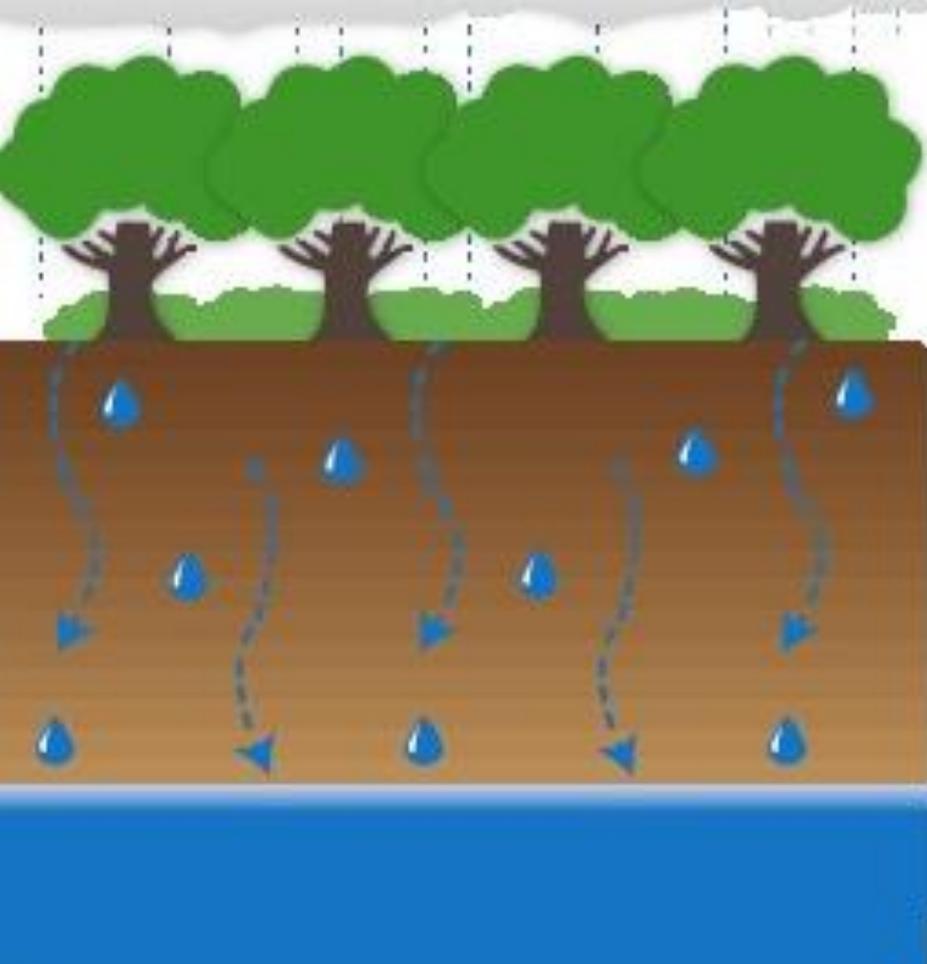
- Chesapeake Bay Tributaries
- Southern Rivers



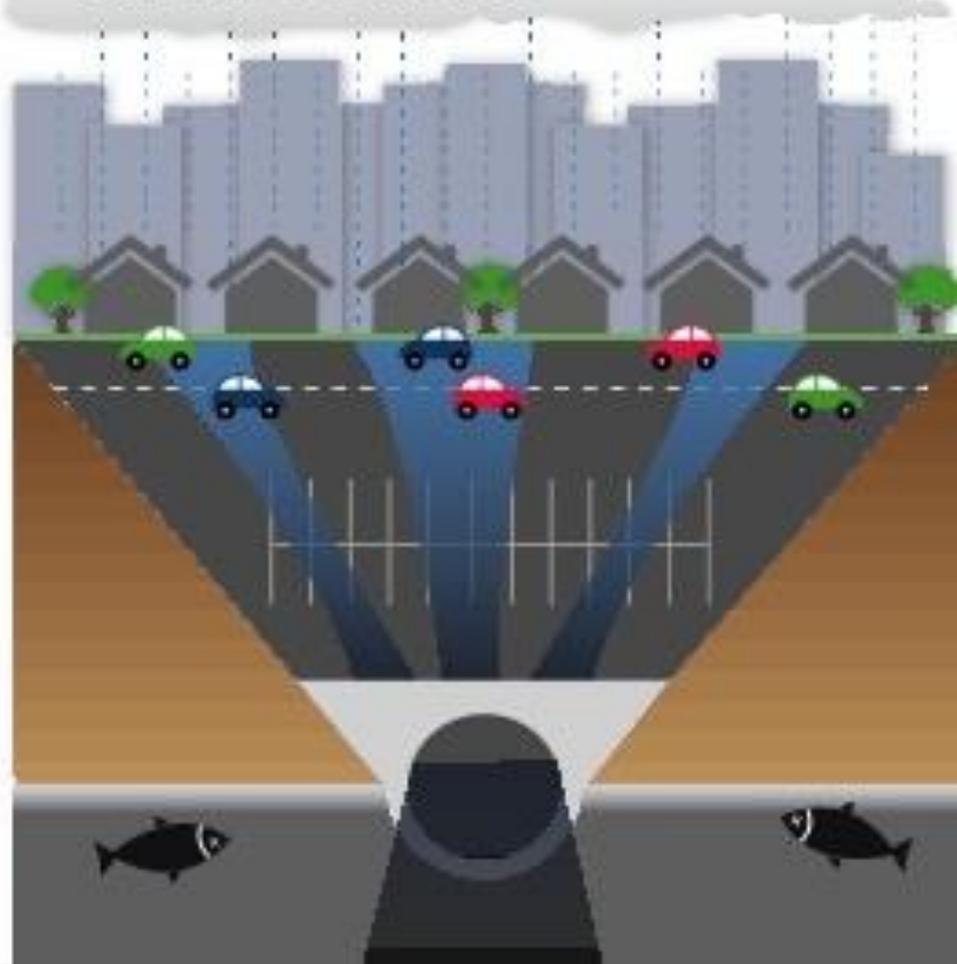
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Impaired Waterways of the Commonwealth of Virginia

The landscape can be a
GREEN FILTER



or a
GRAY FUNNEL



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Satellite Maps of the Bay



Excessive Amounts of Sediment:

1. Damage stream channels, flood roads and property, clogs infrastructure, and pollutes drinking water
2. Smothers and pollutes insect larvae, fish eggs, and other aquatic life at the bottom of the food chain.
3. Reduce sunlight needed by underwater grasses, fish, crabs, and oysters.



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Sediment Pollution

Nitrogen & Phosphorous Pollution

Overall, the biggest problem plaguing Virginia rivers and the Chesapeake Bay



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Nutrient Pollution

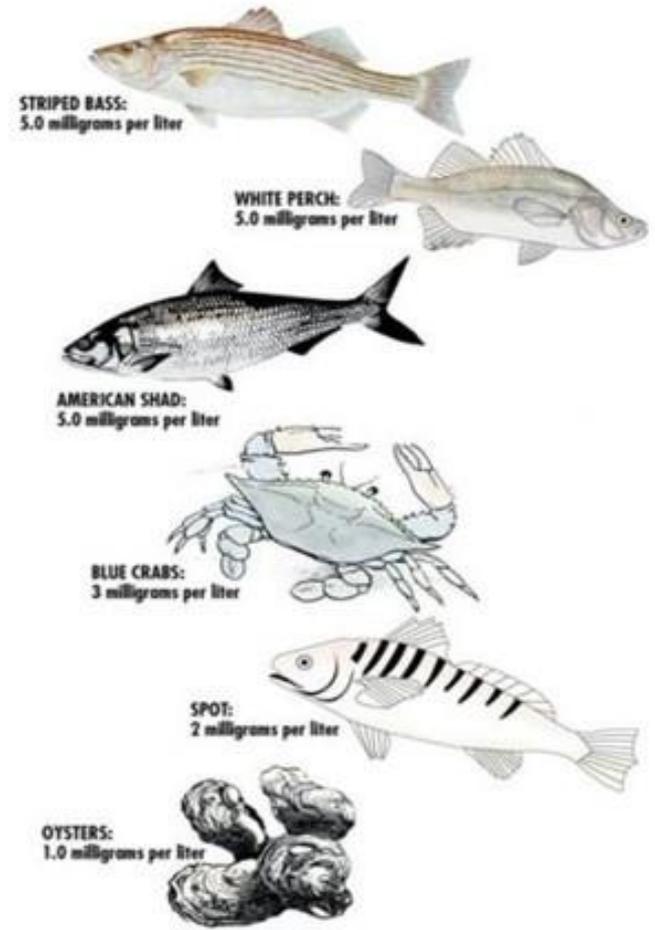
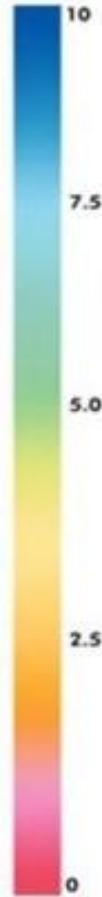
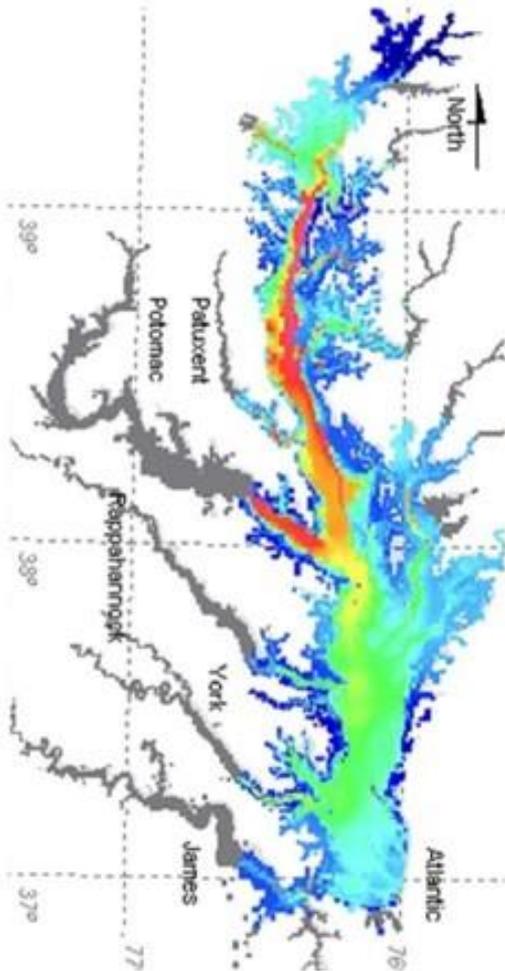


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Algal Blooms

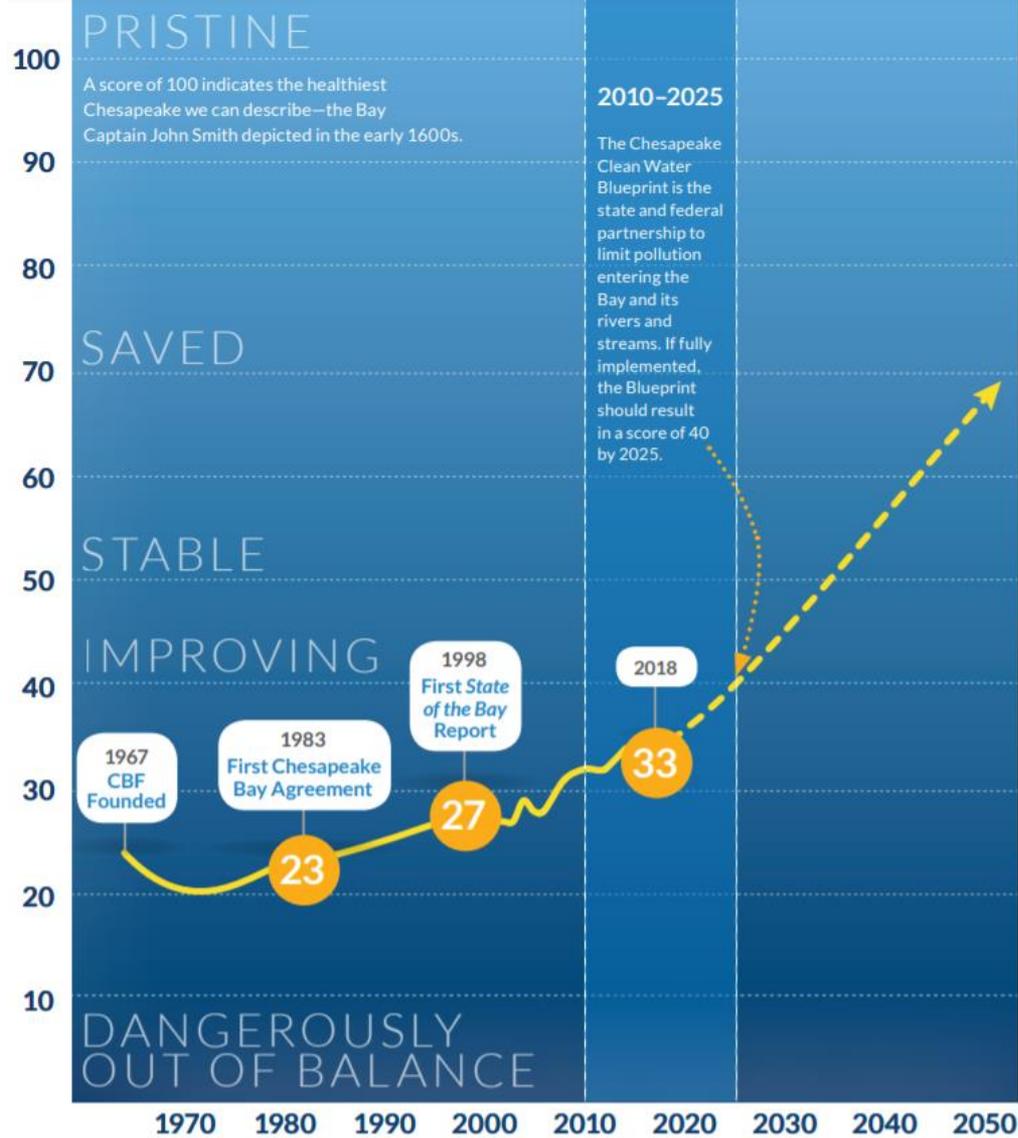
Chesapeake Bay Dead Zone

June 2014



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Dead Zones



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State of the Bay Timeline

Chesapeake Clean Water Blueprint

- Scientifically based “pollution diet” for the Bay (based on Bay TMDL - total maximum daily load)
- Aggressive clean-up plans (watershed implementation plan, or WIP) with progress reports every 2 years
- Timeline: Began in 2010; 60% by 2017; 100% by 2025



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“The Blueprint”



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Environmental Education



BEFORE



AFTER



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Rain Gardens & Bio-Swales



Since 1989

Over **161,700**
volunteers
have removed approx.
7.1 million pounds of
debris along more
than **8,000 miles** of
streams and shoreline

All this in just
3 hours each year!



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Clean The Bay Day



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Oyster Restoration

**Practices that
Address
Sea Level
Rise/
Recurrent
Flooding**

- **Green Infrastructure**
- **Living Shorelines**
- **Native Planting**
- **Conservation Landscaping**
- **Rainwater Retention**

**Practices that
Address Bay
Pollution
Issues/ Water
Quality**



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Addressing Sea Level Rise



Before



During



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Shoreline Restoration
Photos Courtesy: Kevin Dubois



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Shoreline Restoration
Photos Courtesy: Kevin Dubois



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Agricultural Solutions



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Advocacy-
Water Cannot Vote But you Can!



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Clean Water Captains: Bay Ambassadors

#1 Stay informed on local conservation issues!

Get in where you fit in!

- Volunteer with an organization you care about!
- Lead a creek clean-up or join Clean the Bay Day
- Reduce your carbon footprint – bike, walk, carpool
- Conservation landscaping (rain barrels/gardens, native plants & trees, etc. at home/office/school)
- Participate in CBF's education programs
- Grow underwater grasses or oysters with CBF
- Recycle oyster shells
- Become a volunteer speaker (Speaker's Bureau)
- Become a Student Leader
- **ADVOCATE & encourage others to do so!**



You are the people who are going to Save the Bay!



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**Tanner Council
Hampton Roads Grassroots Manager
757.622.1964
tcouncil@cbf.org
Brock Environmental Center
3663 Marlin Bay Drive | Virginia Beach, VA 23455**

ARRANGE A TOUR: BrockCenterGreenTours@cbf.org

THANK YOU for being informed and
getting involved to **SAVE THE BAY**



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THANK YOU!