

# TRACKING OUR THE CHESAPEAKE BAY TMDL PROGRESS



A breakdown of  
accomplishments,  
goals, and plans

Chesapeake Bay Restoration

Where are we?



# TODAY'S POINTS FOR DISCUSSION AGENDA



What's working and  
what's not?

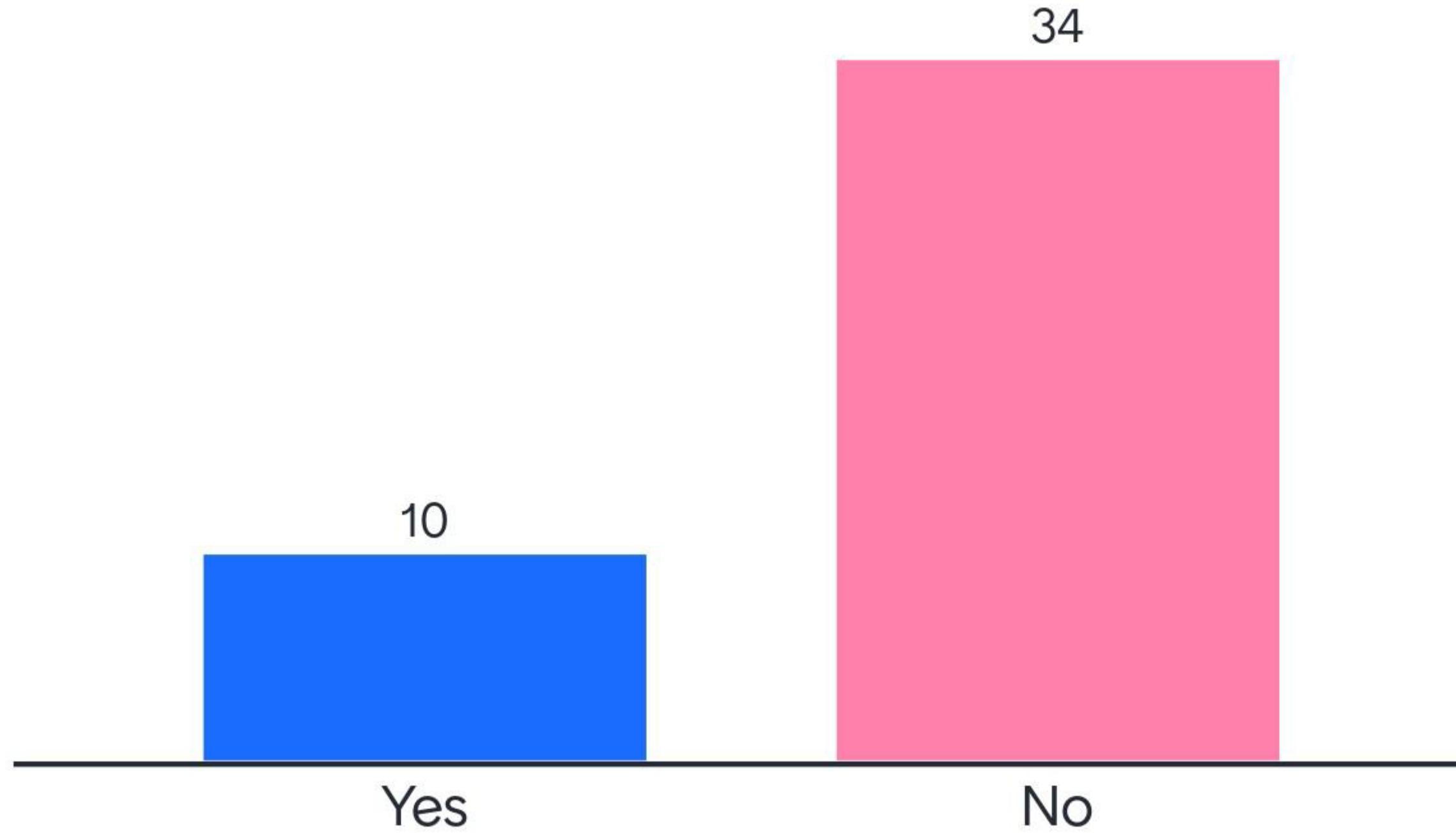
How can we help?

# INTERACTIVE PARTICIPATION



- ☐ Go to [menti.com](https://menti.com) and type in code 3384 6349
- ☐ OR use your camera to zoom in on this QR code
- ☐ Answer the question
- ☐ Submit and move on to the next question

# Have you used menti polling before?



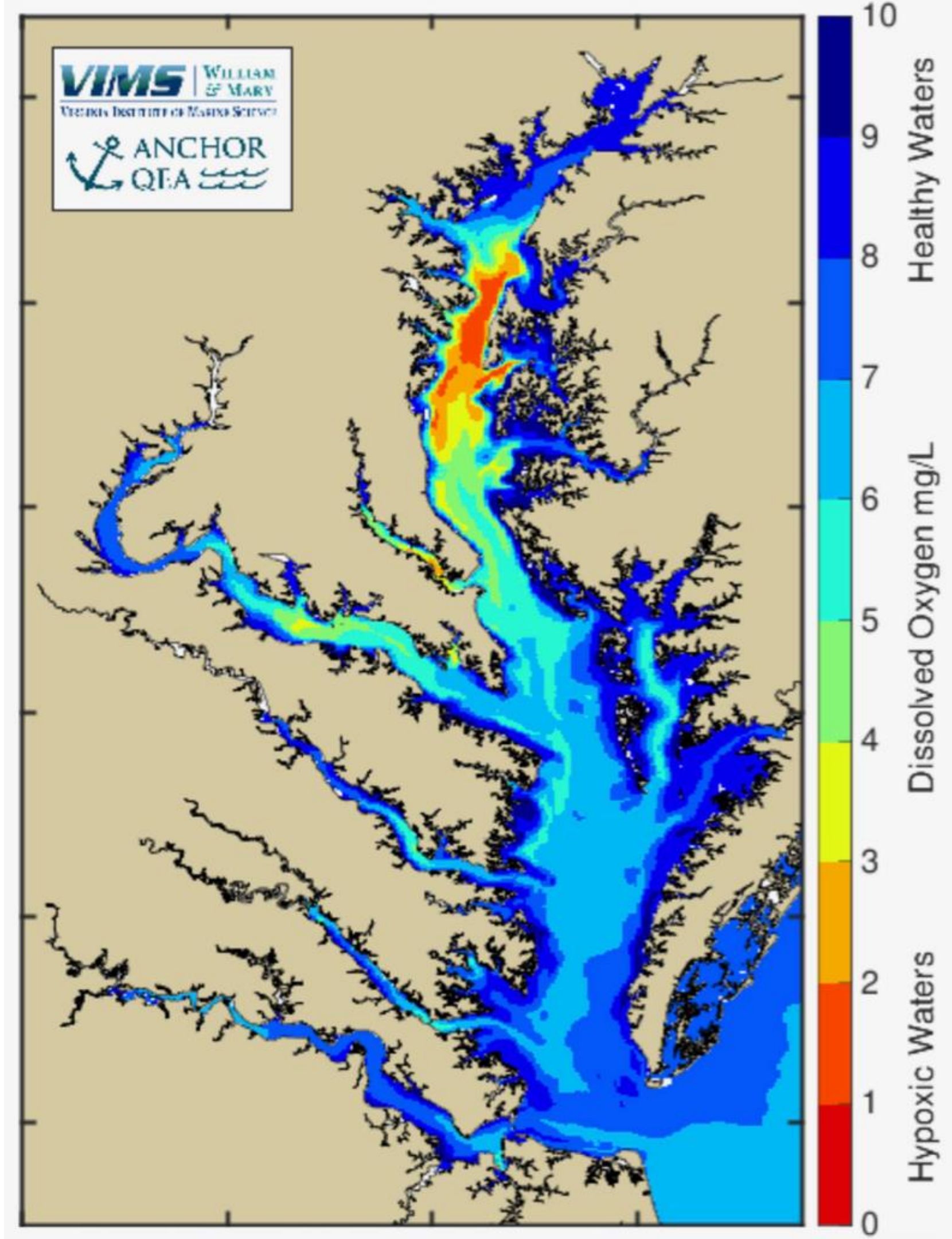




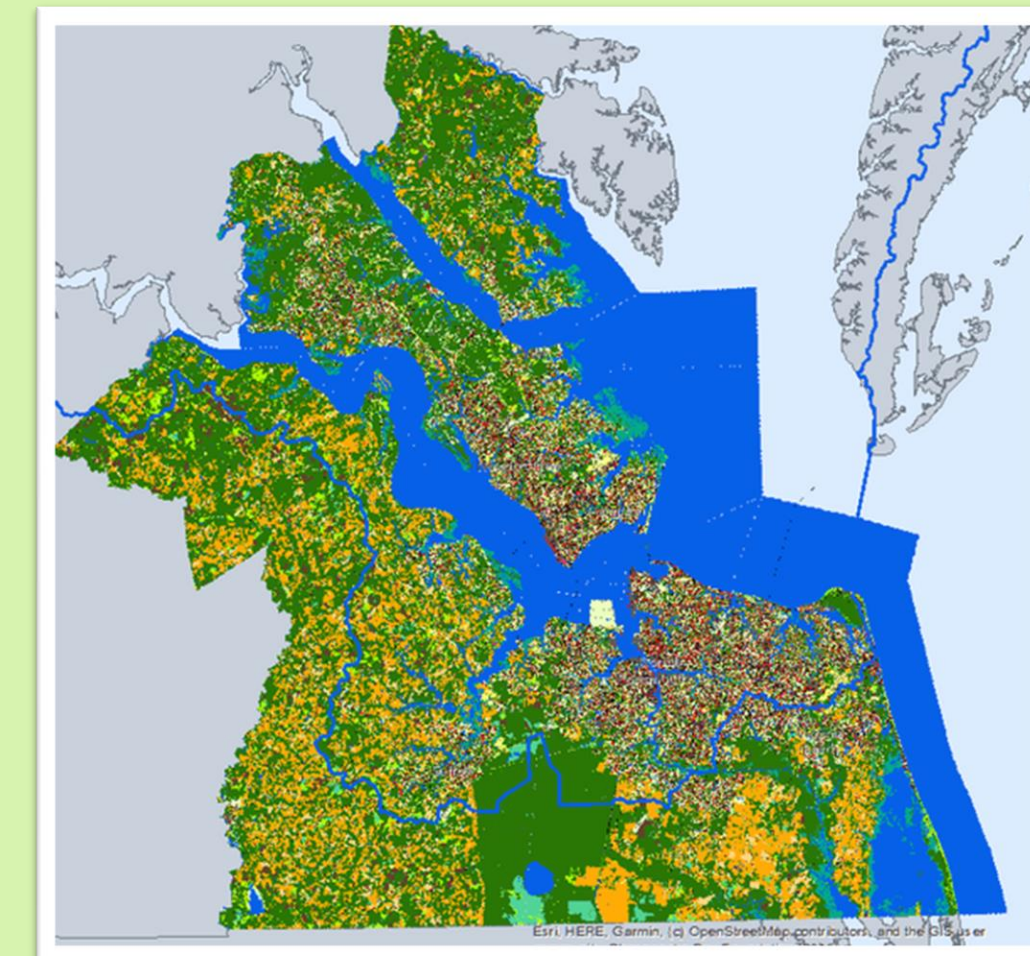
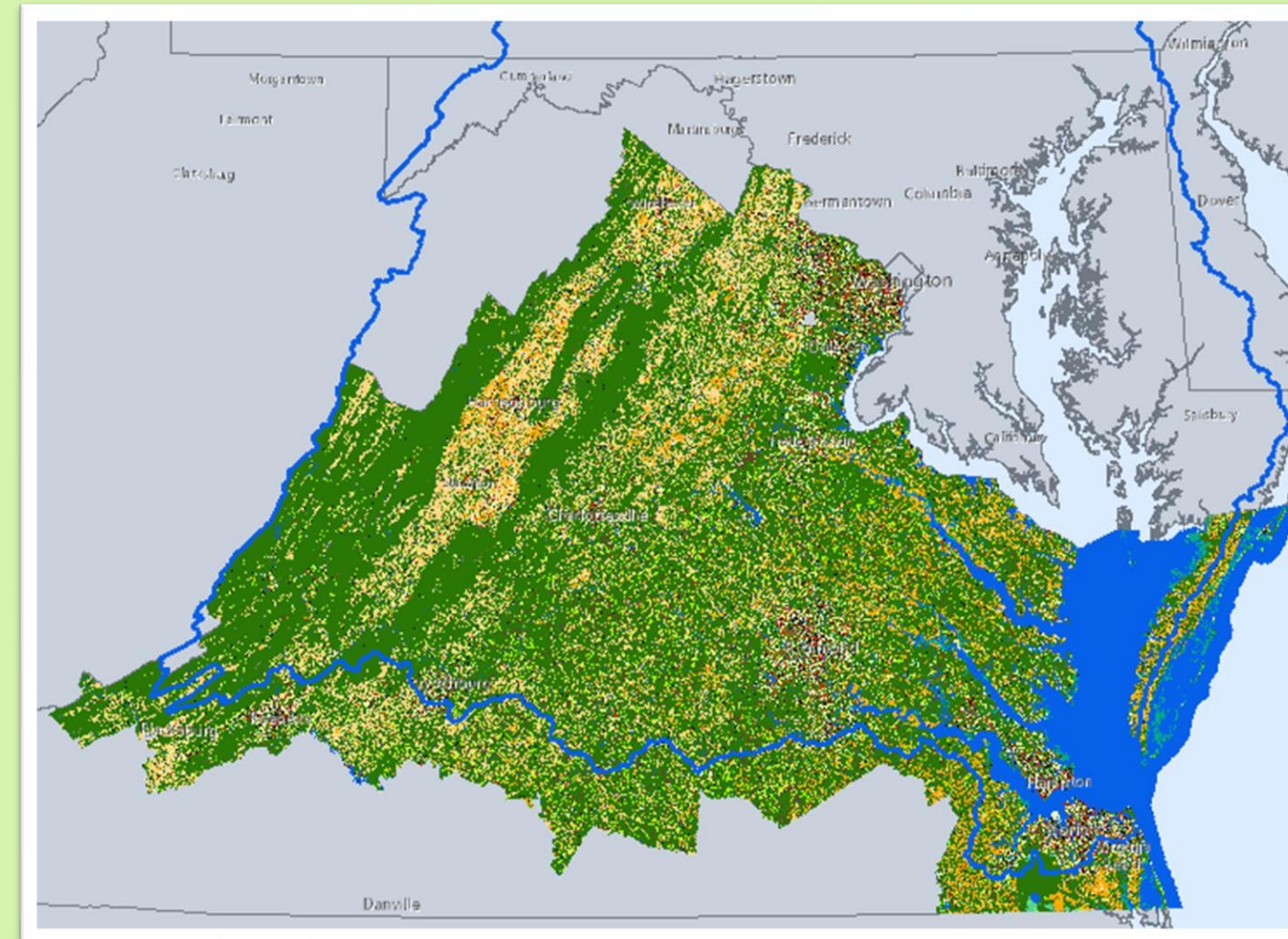
# TOTAL MAXIMUM DAILY LOAD

Pollution diet, established in 2010, to reduce Total Nitrogen (TN) and Total Phosphorus (TP) to increase dissolved oxygen (DO) in the mainstem Bay, to protect natural resources

By 2025, must have  
100% of practices in  
place to achieve  
TMDL goals







**VIRGINIA**

**HAMPTON ROADS**

**CHESAPEAKE BAY  
WATERSHED**

**POLLUTANT REDUCTIONS AGREED  
TO AT STATE LEVEL BUT  
ADDRESSED LOCALLY**



**BAY STATES WILL MEET THE 2025 GOAL**

**VIRGINIA IS MAKING PROGRESS ON BAY  
CLEANUP, BUT WON'T ACHIEVE GOALS**

**PENNSYLVANIA LEADS THE BAY CLEANUP EFFORT**

**WASTEWATER PROVIDES THE MOST  
REDUCTIONS FOR THE BAY**

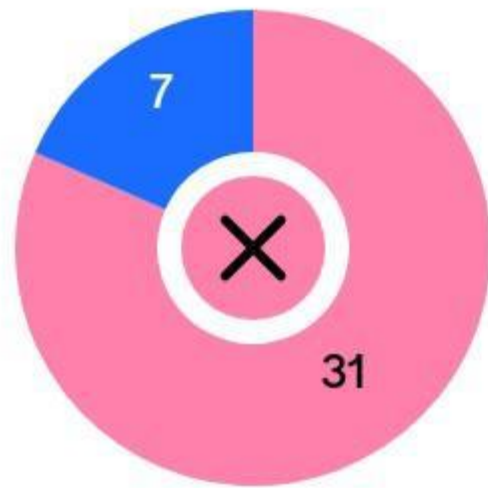
**VOLUNTARY AGRICULTURAL PRACTICES ARE  
THE MOST COST-EFFECTIVE**

**Menti.com Use code 3384 6349**





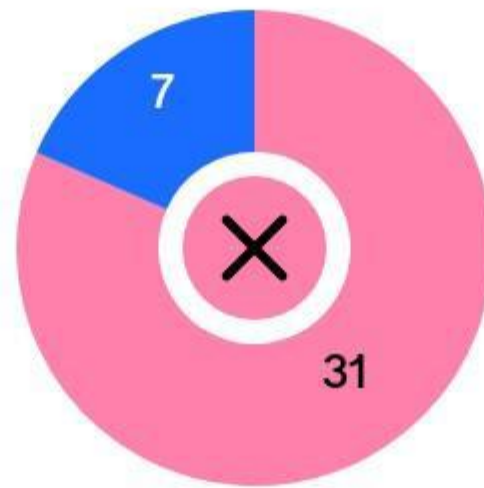
# True or False?



Bay states will meet the 2025 goal



Virginia is making progress on Bay cleanup, but won't achieve the goals



Pennsylvania leads the Bay cleanup effort



Wastewater reduces the most pollutants for the Bay



Voluntary agricultural practices can be the most cost-effective

Total  
Nitrogen



**49% COMPLETE**

Total  
Phosphorus

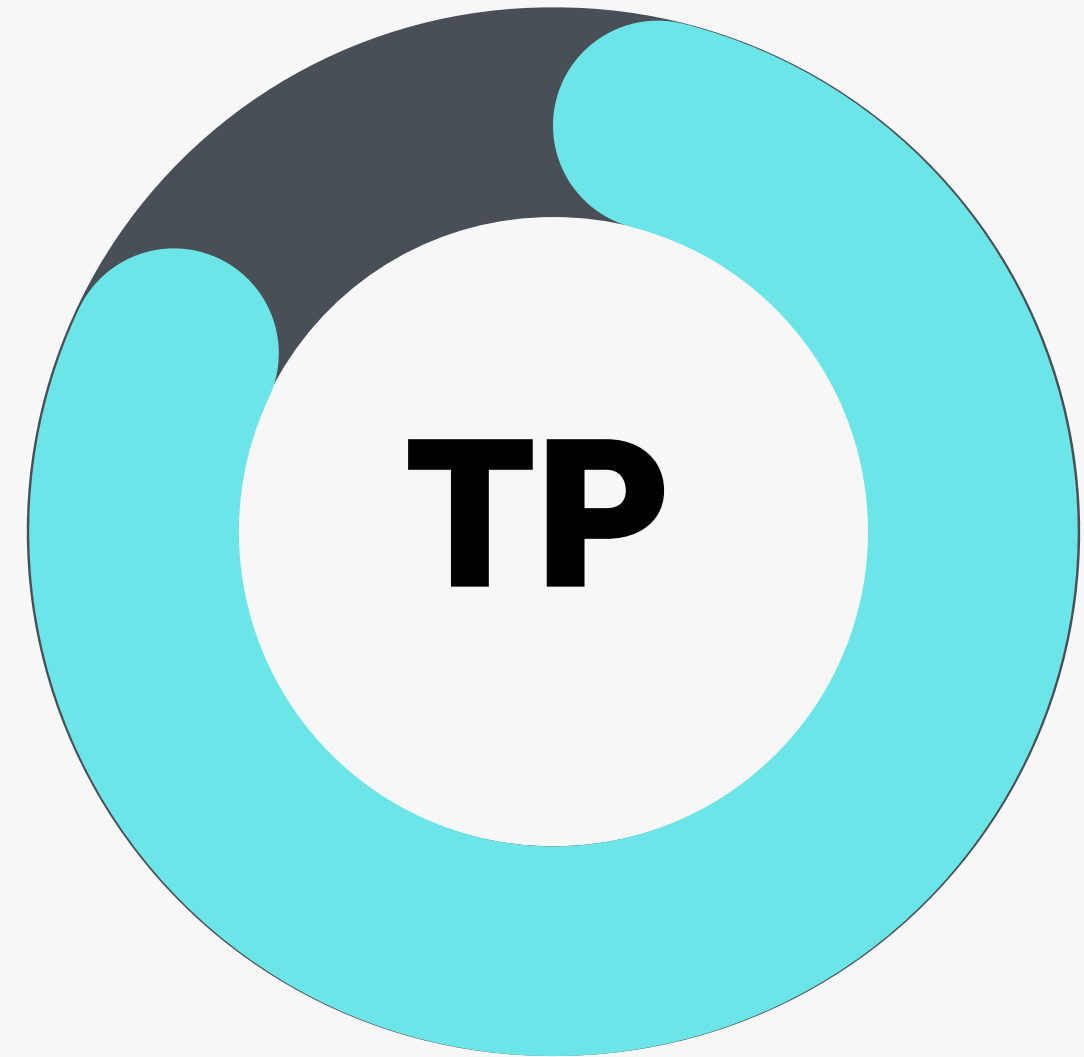
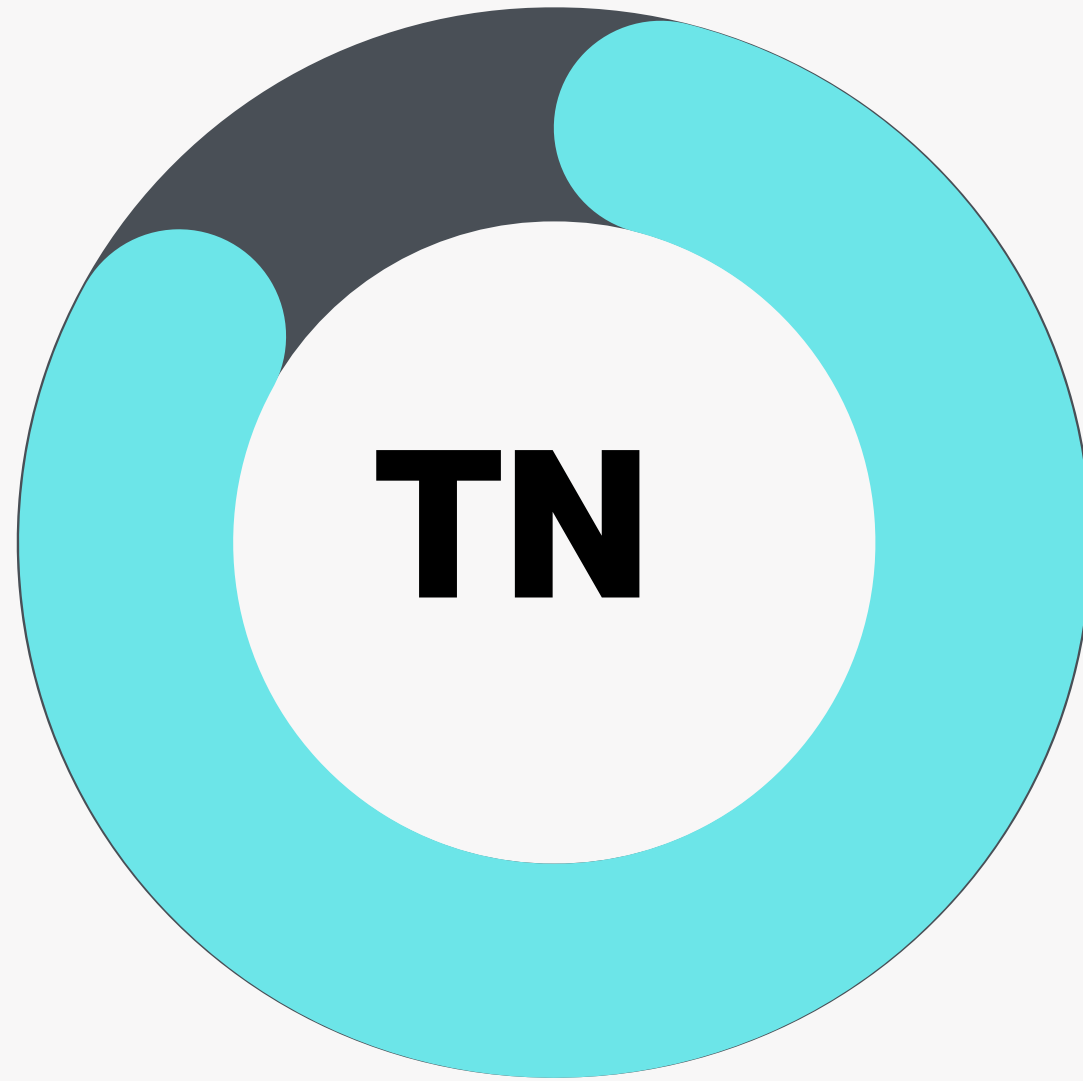


**64% COMPLETE**

**BAY ACHIEVEMENTS**



# VIRGINIA'S PROGRESS



**87% COMPLETE**

~7 Million lbs  
Nitrogen gap for VA

~807,000 lbs  
Phosphorus gap for VA



# WHAT CONTRIBUTES TO POLLUTION?

## REGULATED



- Permit limits for Wastewater & Municipal Separate Storm Sewer Systems (MS4s)
- Costs born by ratepayers
  - Utility bills, stormwater fees, local general funds

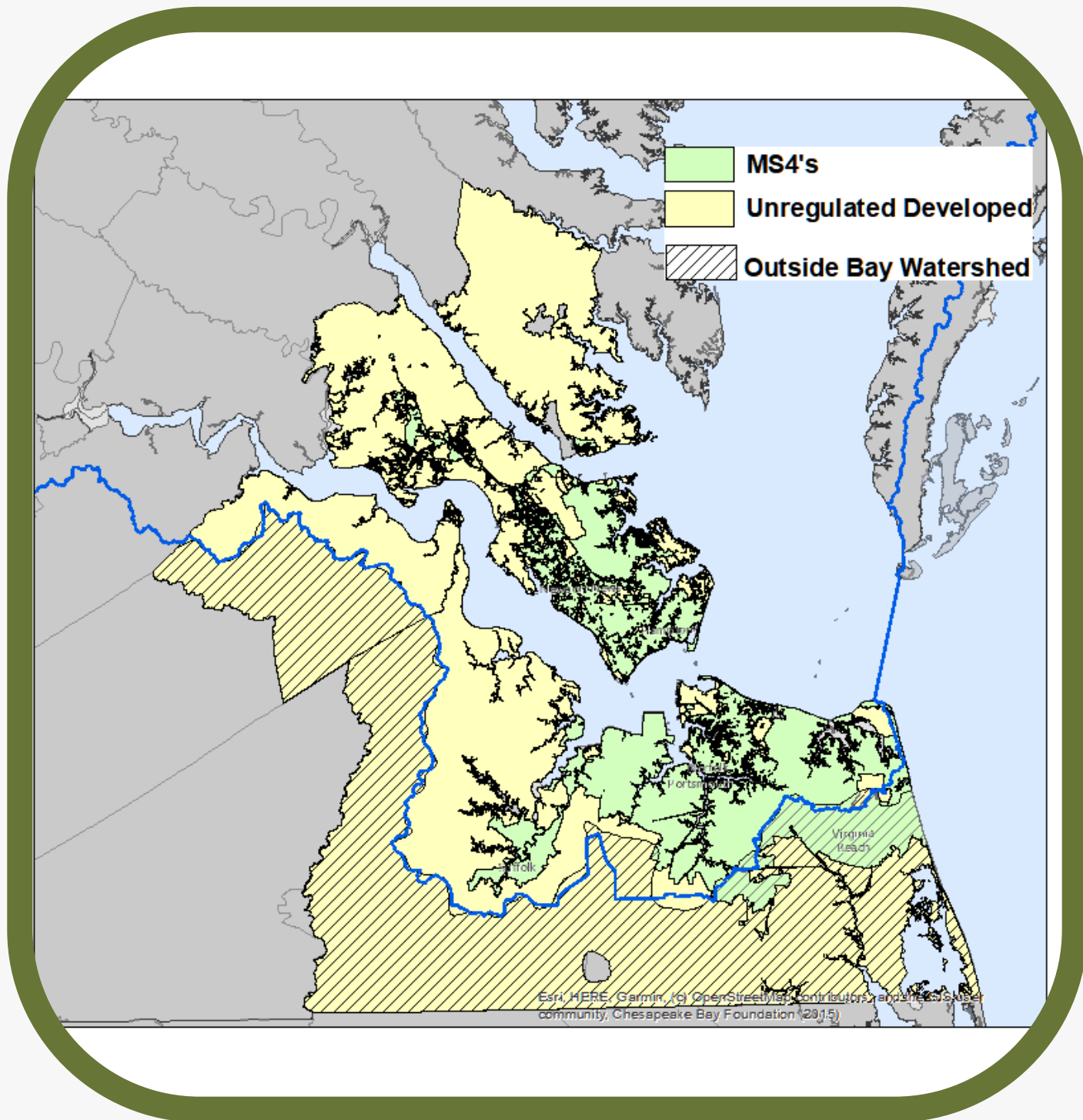
## UNREGULATED



- Natural Lands are the 'gold' standard
- Most reductions expected from Agriculture and Unregulated Developed sectors
- How do we incentivize, develop programs, and make these sectors work better?



# HAMPTON ROADS STATUS



✓ Significant wastewater reductions

✓ Robust MS4 stormwater programs

○ State requested voluntary reductions in agriculture and unregulated stormwater

If voluntary programs don't grow, will the burden shift to regulatory programs?



# HRSD Nutrient Reductions



Phased treatment plant upgrades

SWIFT aquifer recharge

Trading program for MS4 needs

More cost-effective than  
stormwater BMPs

Long-term investment for  
regional pollution reduction



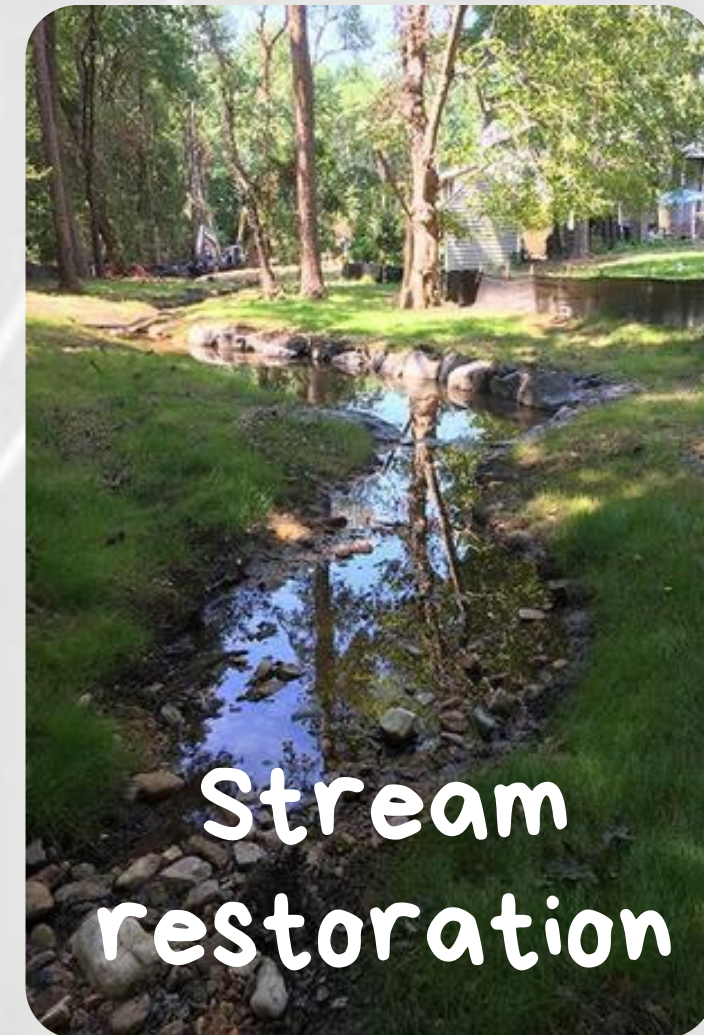
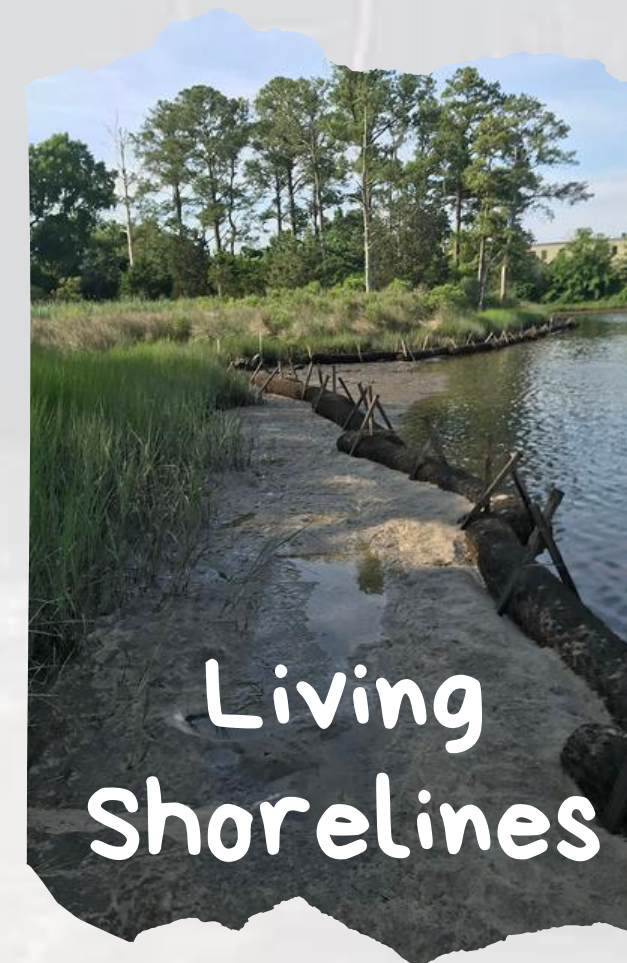
	Grants from VA WQIF	HRSD
Spent to date	\$157M	\$405M
Proposed spending through 2028	\$899M	\$785M

Best case - TBD



# STORMWATER REQUIREMENTS

1. Don't make the problem worse
  - Ensure nutrient neutral development
  - Re-evaluate state standards
2. Go back and fix legacy problems
  - Comply with MS4 permits
  - Implement stormwater BMPs on prior developed land (retrofits)





# WHAT ISN'T WORKING WELL?

## Reductions from Agriculture



- Non-regulatory
- BMP implementation must accelerate at state level

**9%**

Agriculture acres in  
Hampton Roads,  
Bay watershed

## Reductions from Developed Lands



- No incentives to reduce unregulated loads
- State regulations not nutrient neutral

**17%**

Unregulated  
developed acres in  
Hampton Roads, Bay  
watershed



# IT'S ALMOST 2025, NOW WHAT?

\* Goal won't be achieved overall



\* Continue to support  
wastewater & stormwater

\* Incentivize voluntary  
practices



Where does Hampton Roads go from here?

# IF FUNDING WERE AVAILABLE...

1

Plant/preserve  
trees



2

Reduce  
pavement



3

Expand living  
shorelines



4

Homeowner  
BMPs



5

Conserve lands



## PRIORITIZE THESE ISSUES



# If funding were available, prioritize these issues.





THANK YOU FOR  
LET'S DISCUSS  
YOUR TIME!

What can we follow up on?  
What more do you need to know?

# RESOURCES

Local Government Advisory Committee: A Local Guide to the  
Chesapeake Bay

[Local Government Advisory Committee Projects and Resources  
\(chesapeakebay.net\)](http://chesapeakebay.net)

Chesapeake Bay Progress

[Chesapeake Progress](http://chesapeakeprogress.org)

askHRgreen.org Bay Restoration

[Restoring the Chesapeake Bay - askHRgreen.org](http://askHRgreen.org)