

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?

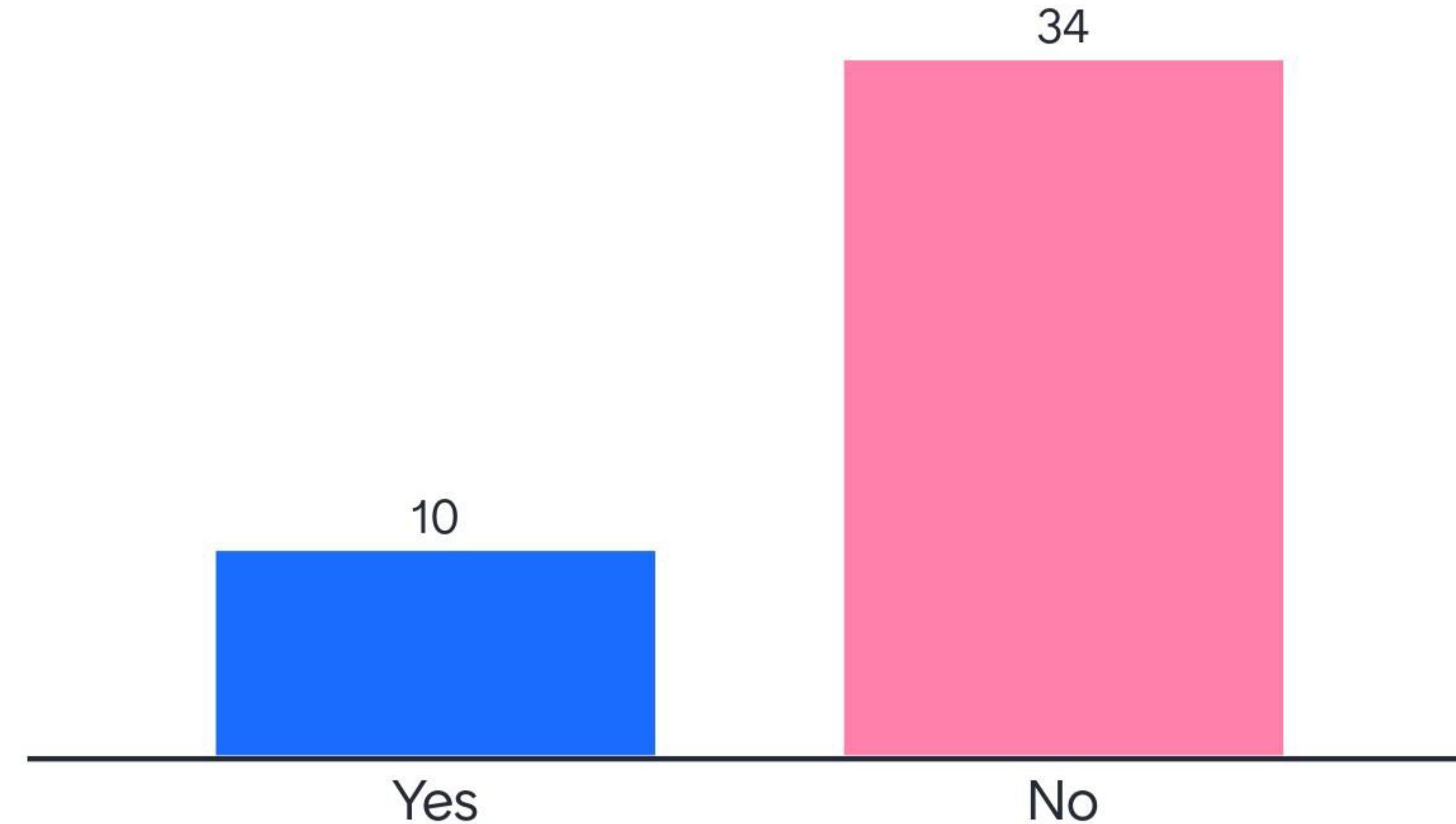
How can we help?

INTERACTIVE PARTICIPATION



- Go to menti.com 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?



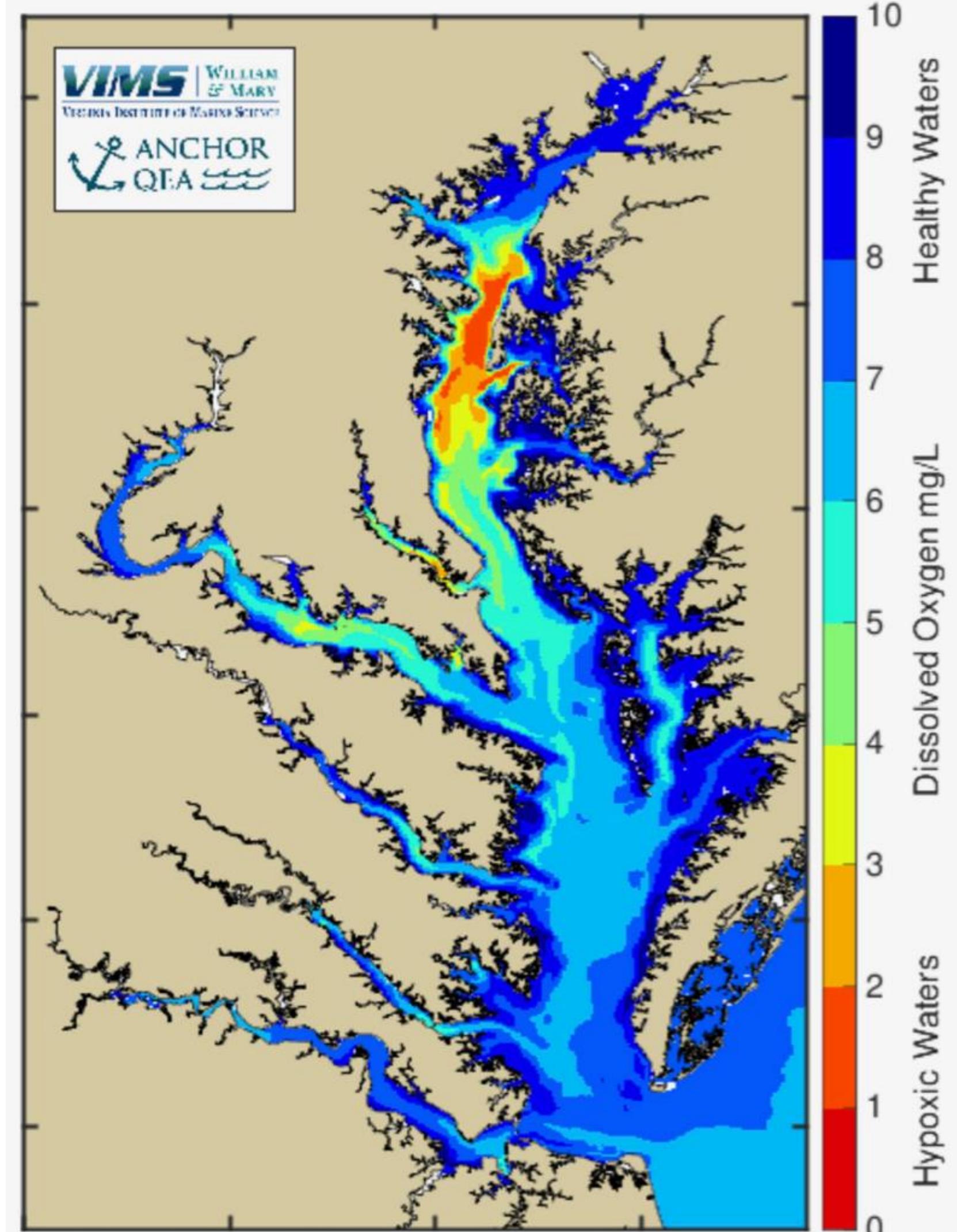
Type in three words that you associate with the Chesapeake Bay.



TOTAL MAXIMUM DAILY LOAD

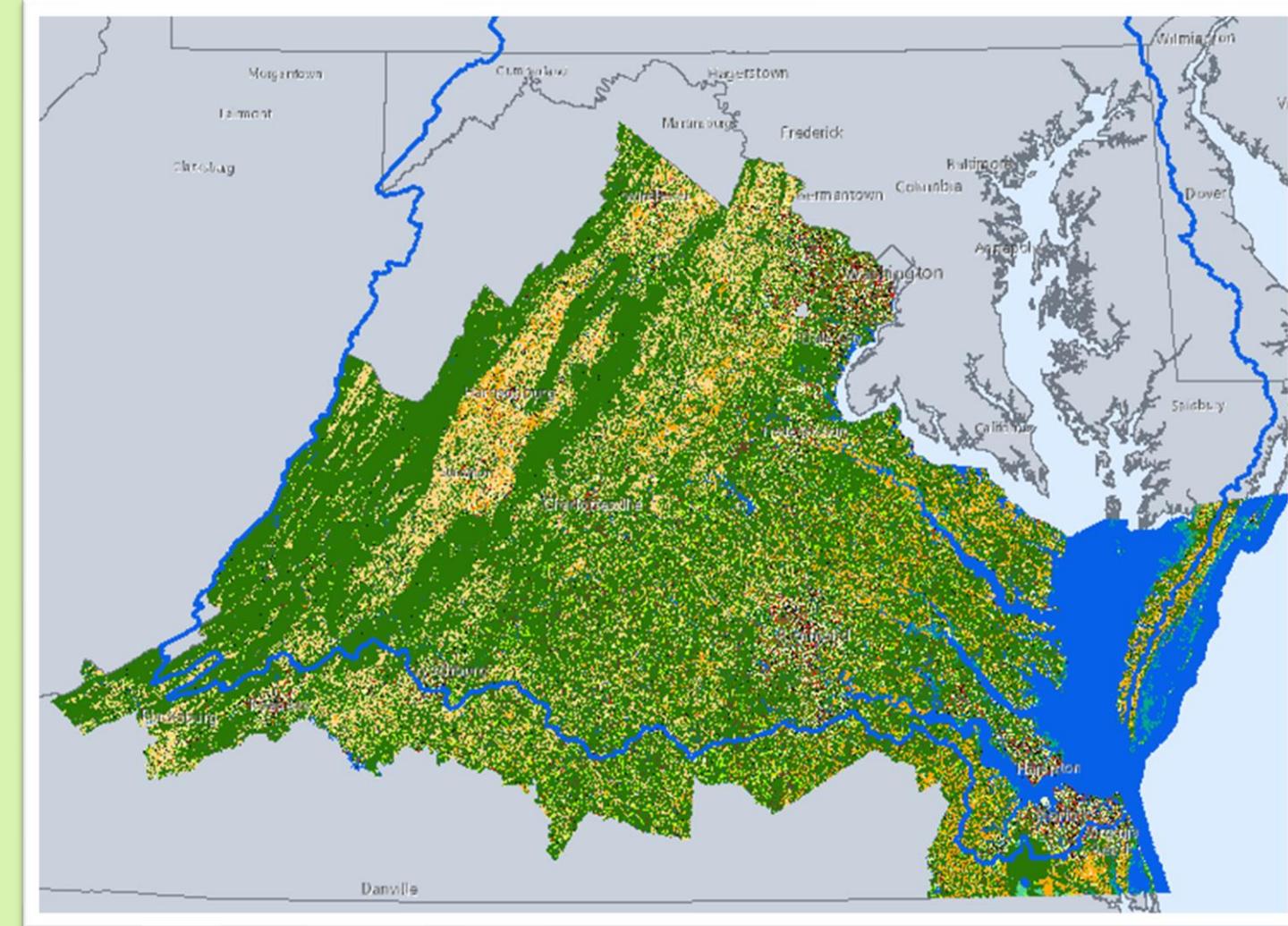
Pollution diet, established in 2010, to reduce Total Nitrogen (TN) and Total Phosphorus (TP) to increase dissolved oxygen (DO) in the mainstem Bay, to protect natural resources

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





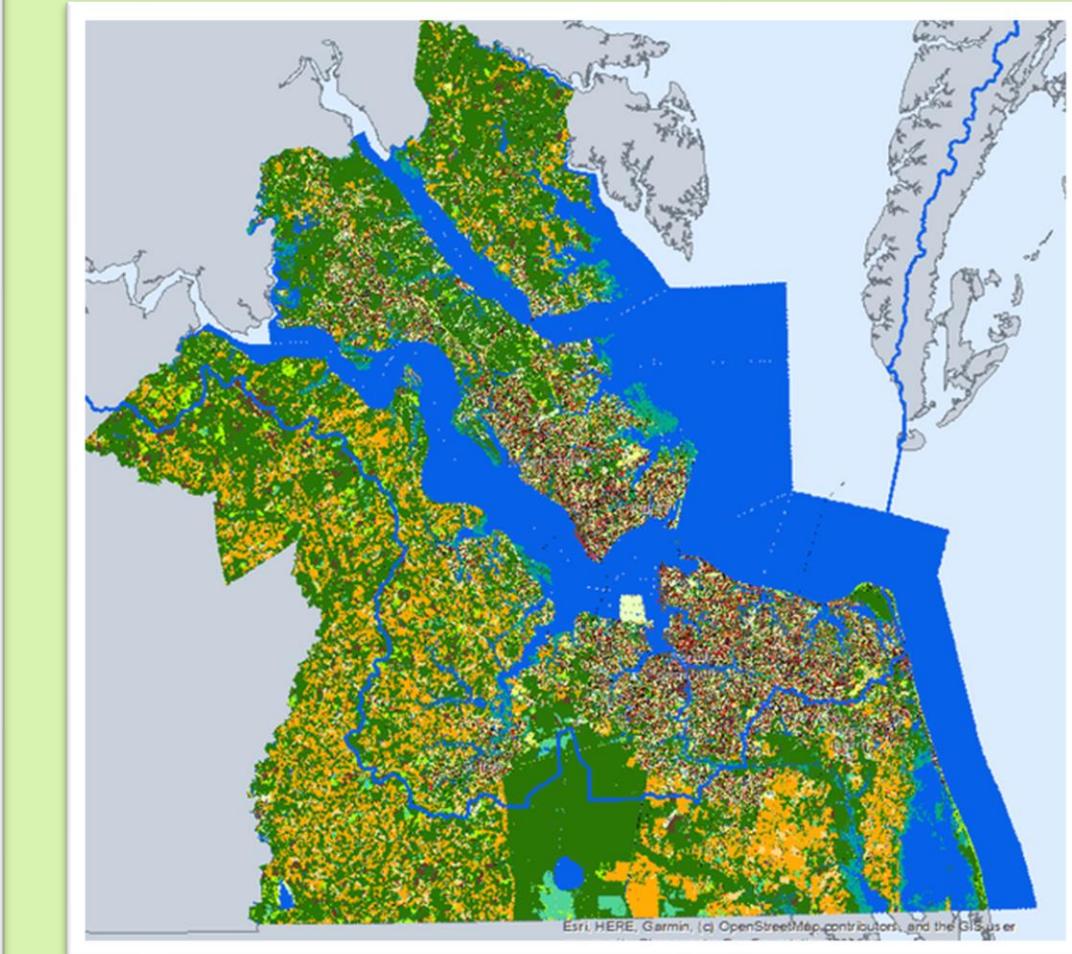
CHESAPEAKE BAY
WATERSHED



VIRGINIA

HAMPTON ROADS

POLLUTANT REDUCTIONS AGREED
TO AT STATE LEVEL BUT
ADDRESSED LOCALLY



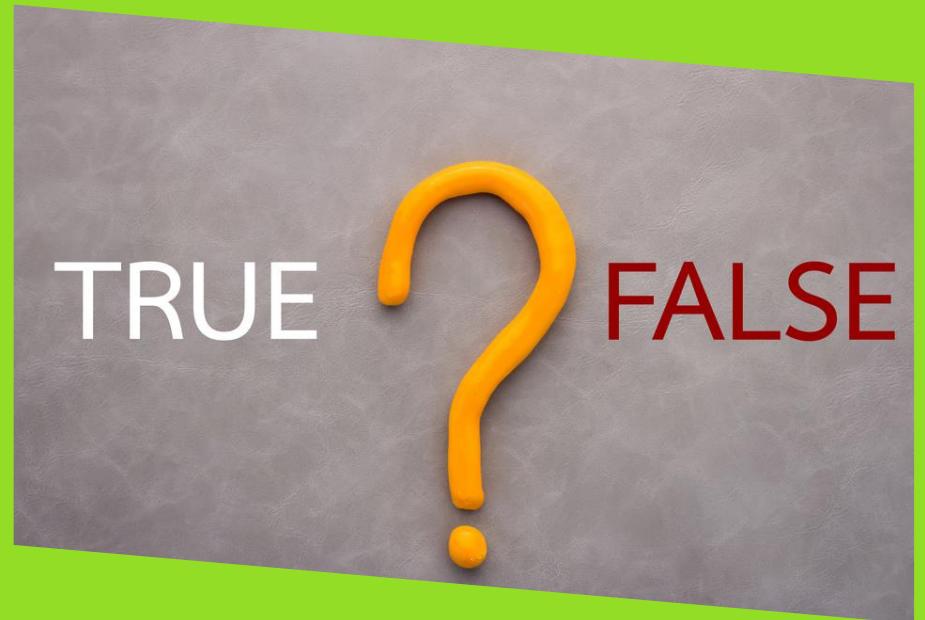
BAY STATES WILL MEET THE 2025 GOAL

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

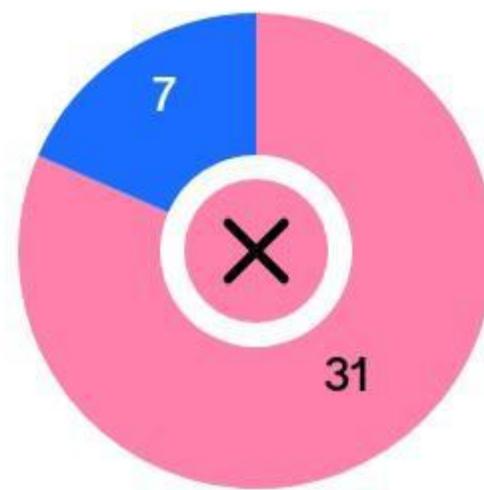
PENNSYLVANIA LEADS THE BAY CLEANUP EFFORT

WASTEWATER PROVIDES THE MOST REDUCTIONS FOR THE BAY

VOLUNTARY AGRICULTURAL PRACTICES ARE THE MOST COST-EFFECTIVE



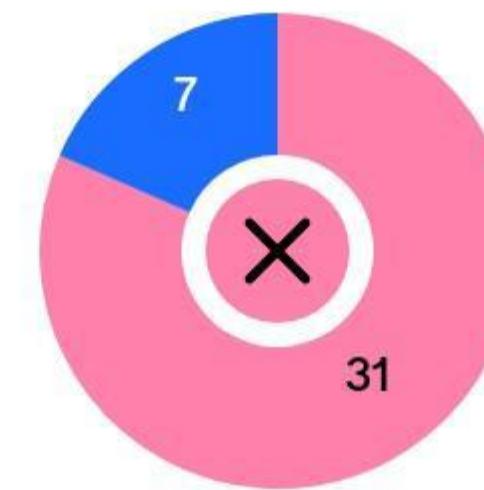
True or False?



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

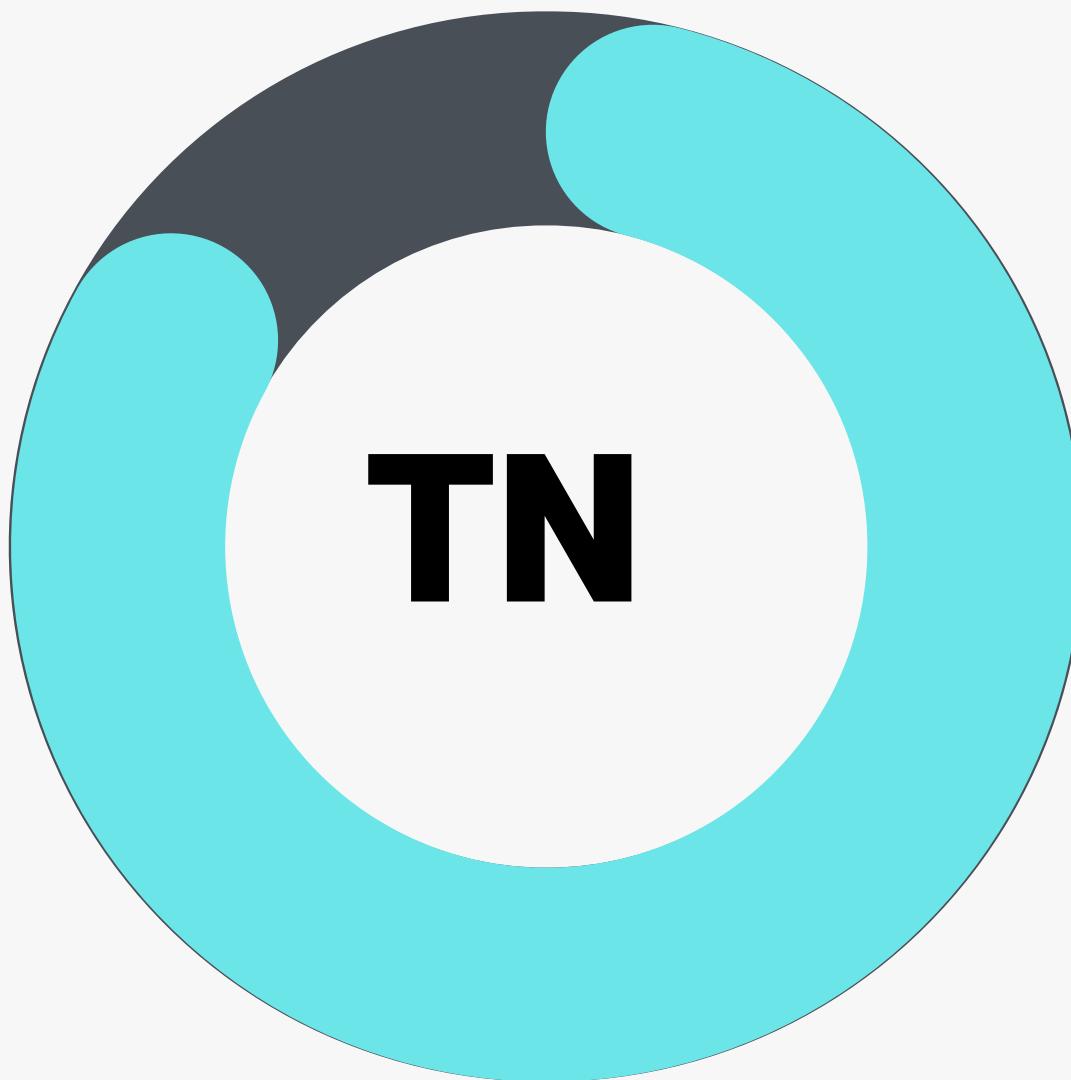
Total
Phosphorus



64% COMPLETE

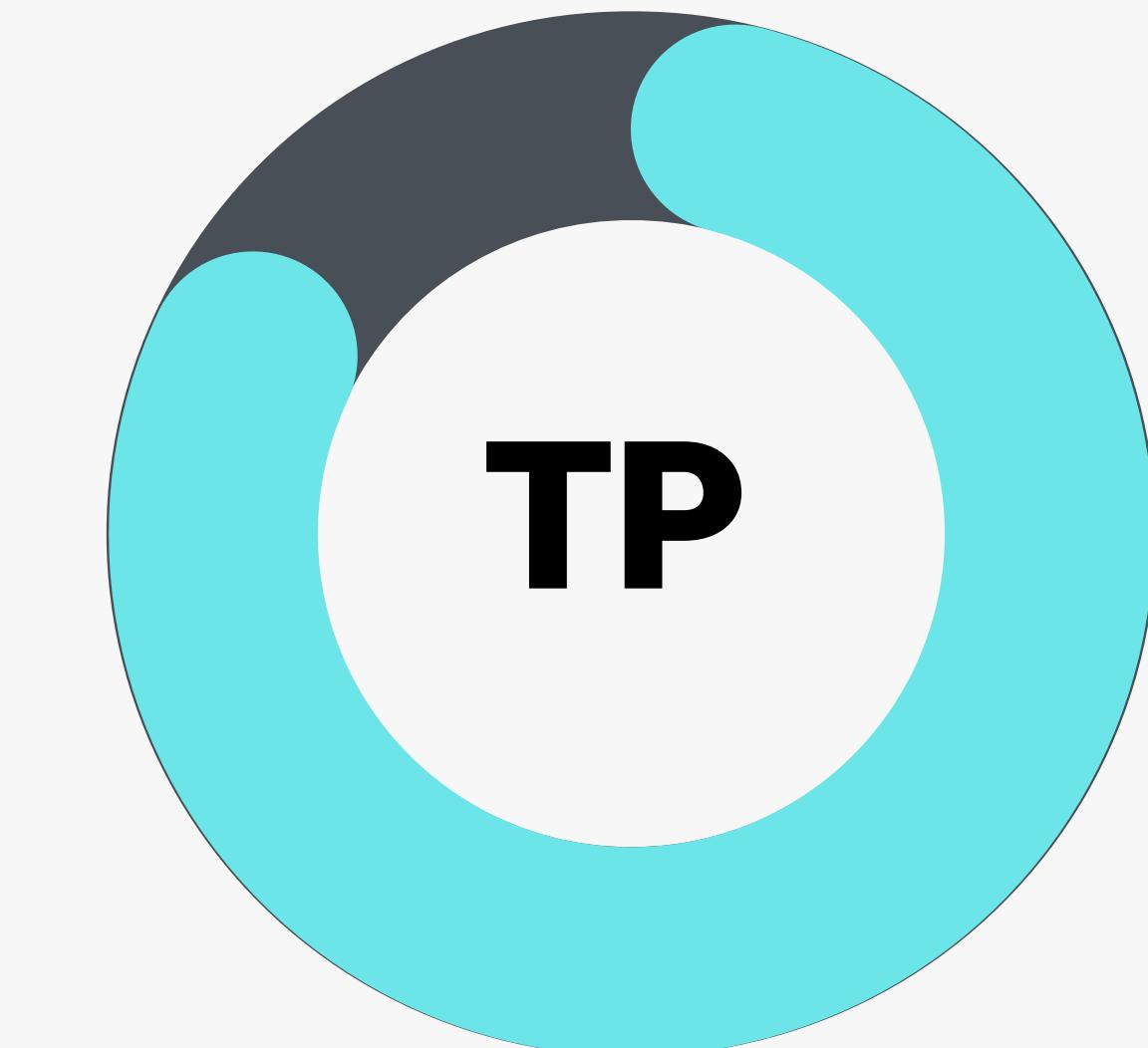
BAY ACHIEVEMENTS

VIRGINIA'S PROGRESS



87% COMPLETE

~7 Million lbs
Nitrogen gap for VA



~807,000 lbs
Phosphorus gap for VA

WHAT CONTRIBUTES TO POLLUTION?

REGULATED



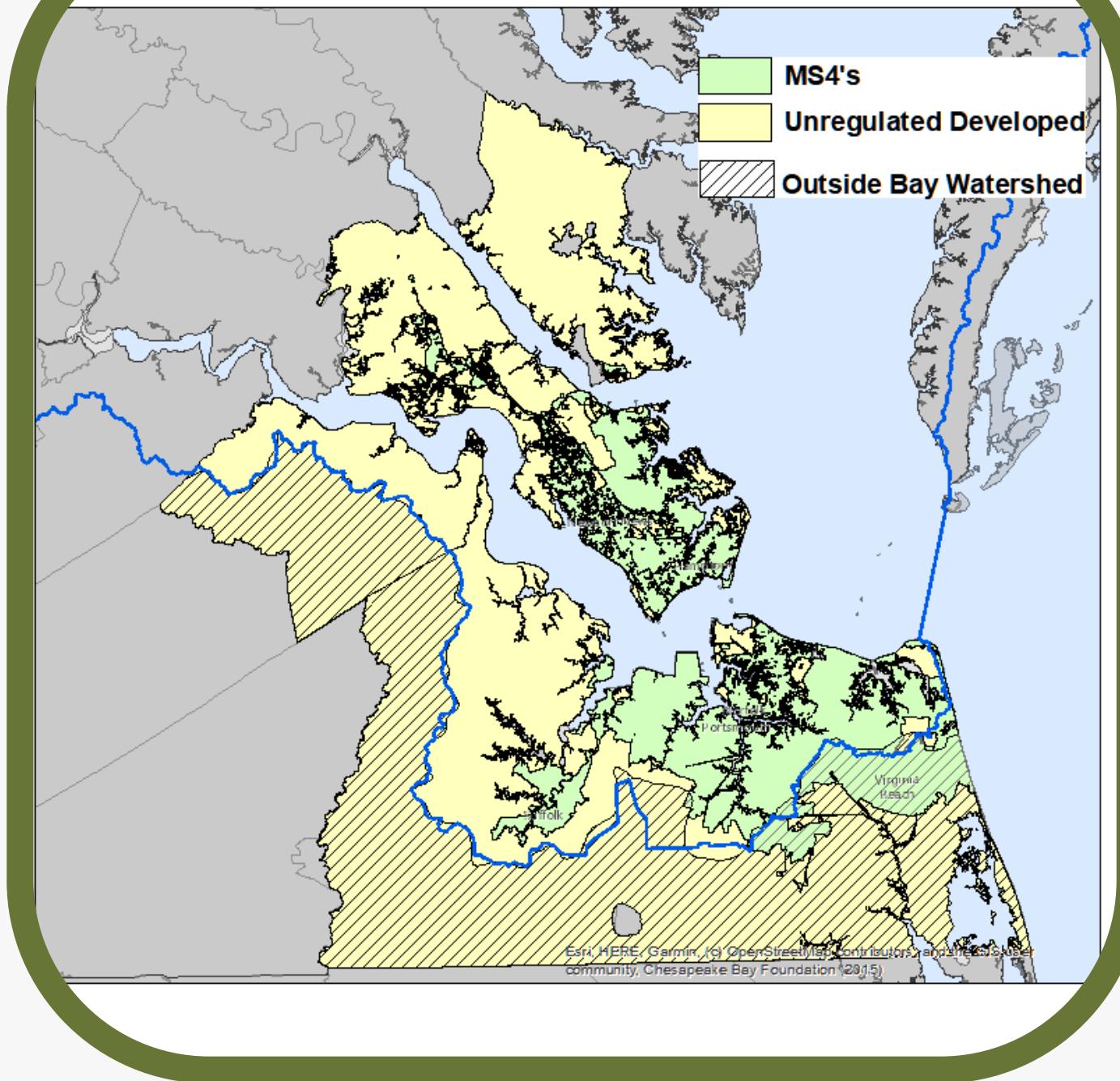
UNREGULATED



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

- 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



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

✓ Significant wastewater reductions

✓ Robust MS4 stormwater programs

○ State requested voluntary reductions in agriculture and unregulated stormwater

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

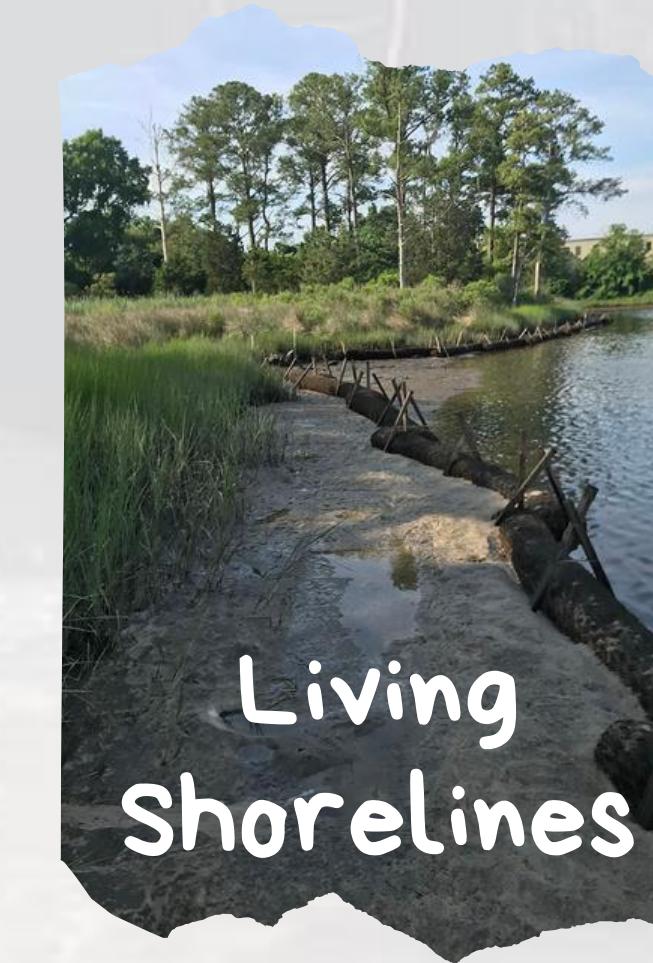
- Comply with MS4 permits
- Implement stormwater BMPs on prior developed land (retrofits)



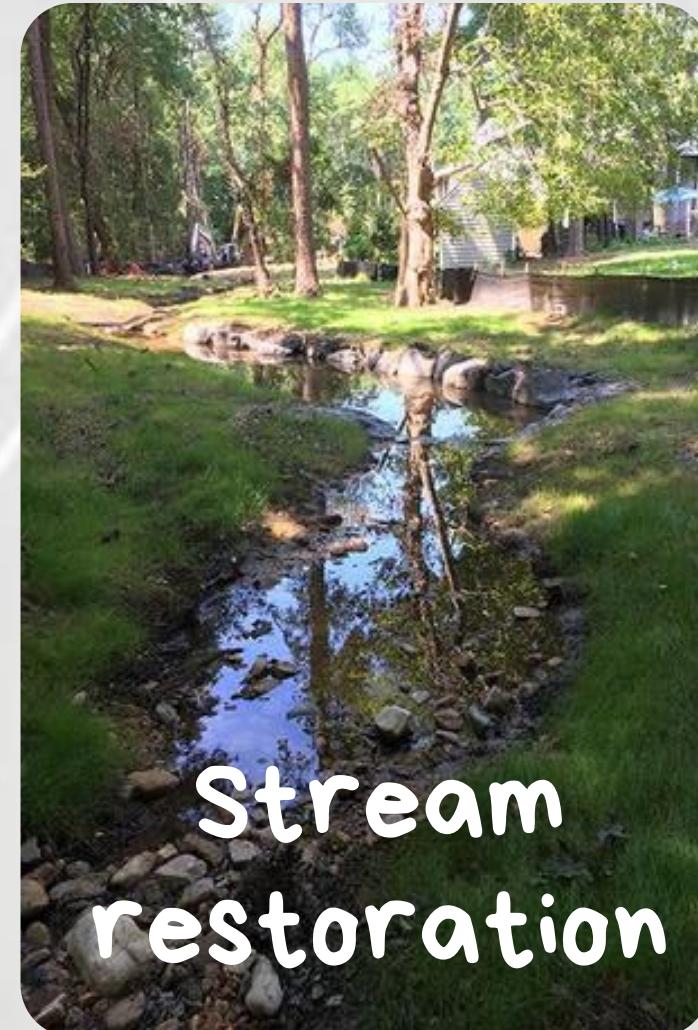
Rain gardens



Wet ponds



Living
Shorelines



Stream
restoration

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

NY1



Where does Hampton Roads go from here?

IF FUNDING WERE AVAILABLE...

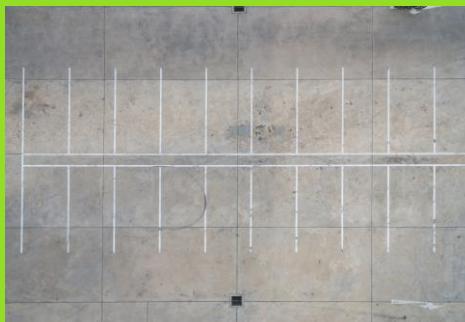
1

Plant/preserve
trees



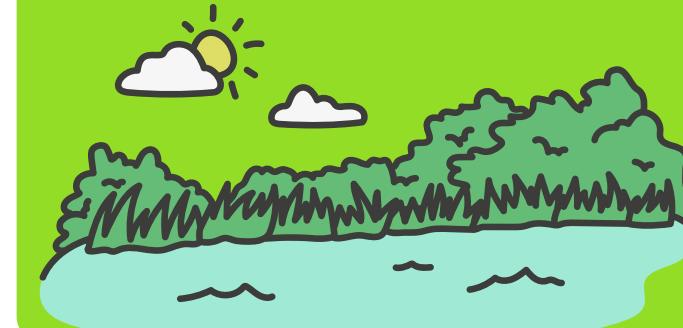
2

Reduce
pavement



3

Expand living
shorelines



4

Homeowner
BMPs



5

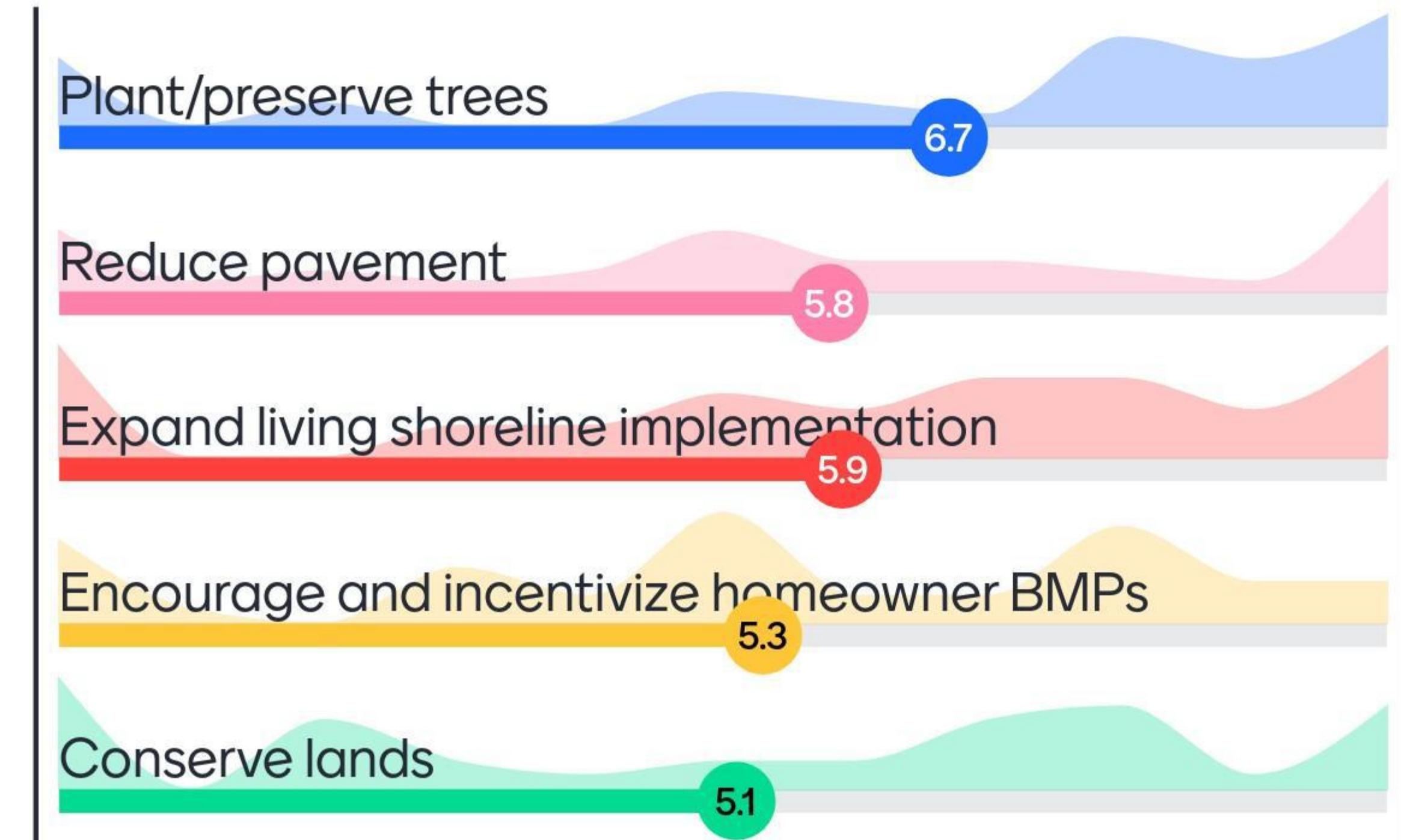
Conserve lands



PRIORITIZE THESE ISSUES



If funding were available, prioritize these issues.



THANK YOU FOR
YOUR TIME!

LET'S DISCUSS

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://RestoringtheChesapeakeBay.askHRgreen.org)