QUARTERLY PROGRESS MEETING – November 2024 Chesapeake Bay Program



Water Quality Standards Attainment and Monitoring

Breck Sullivan, USGS, STAR Coordinator Through the Chesapeake Bay Watershed Agreement, the Chesapeake Bay Program has committed to...



Goal: Water Quality

Outcome:

Continually improve the capacity to monitor and assess the effects of management actions being undertaken to implement the Bay TMDL and improve water quality. Use the monitoring results to report annually to the public on progress made in attaining established Bay water quality standards and trends in reducing nutrients and sediment in the watershed.



Recent Progress: Increase

Outlook: On Course*



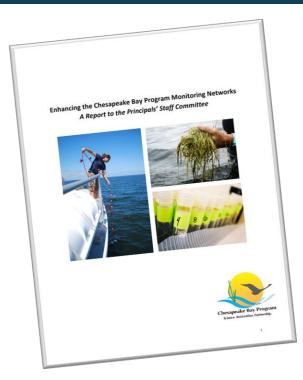




	Capacity to Monitor	Attainment of Tidal Water Quality Standards	Watershed Response to 2025 WIP	Report Trend Results
Outlook		OUTLOOK MIXED RESULTS	OUTLOOK MIXED RESULTS	
Recent Progress	RECENT PROGRESS	RECENT PROGRESS	RECENT PROGRESS	RECENT PROGRESS

Capacity to Monitor

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- Successfully supported
 23 out of 31
 recommendations
- Majority supported from
 Infrastructure funding
- We have 1 year window to protect the monitoring



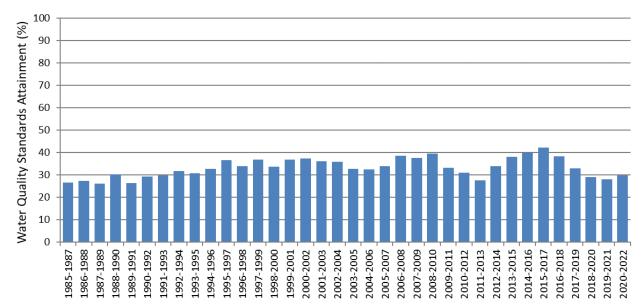
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Recent Progress	RECENT PROGRESS	RECENT PROGRESS	RECENT PROGRESS	RECENT PROGRESS

Attainment of Tidal Water Quality Standards





Recent
increase
from 28.1%
to 29.8%



Achievement of Chesapeake Bay Water Quality Standards 1985-2022

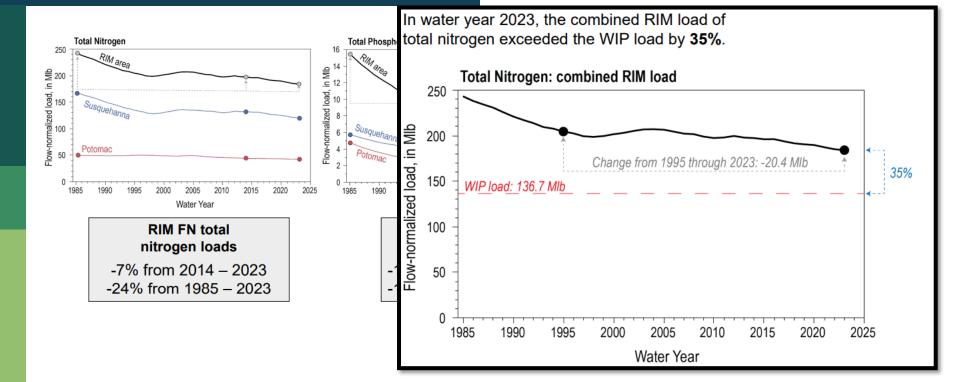


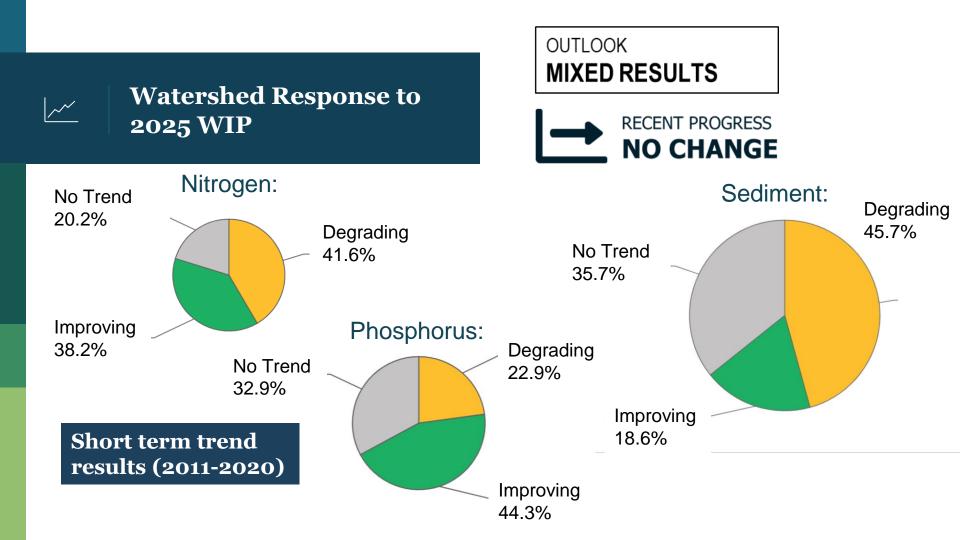
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Recent Progress	RECENT PROGRESS	RECENT PROGRESS	OUTLOOK MIXED RESULTS	RECENT PROGRESS

Pollution Loads to the Chesapeake Bay

OUTLOOK MIXED RESULTS









	Capacity to Monitor	Attainment of Tidal Water Quality Standards	Watershed Response to 2025 WIP	Report Trend Results
Outlook		OUTLOOK MIXED RESULTS	OUTLOOK MIXED RESULTS	
Recent Progress	RECENT PROGRESS	RECENT PROGRESS	RECENT PROGRESS	RECENT PROGRESS

Report, Analyze and Interpret Trend Results





Indicators
Publications
Storymony

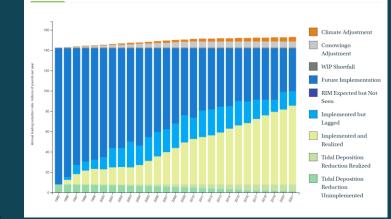
- Storymaps
- Trend Reports

TMDL Indicator

Chesapeake Bay TMDL Indicator: Total Nitrogen 🔺

This indicator combines monitored and modeled data to estimate the progress of annual pollution loading rate reductions since 1995 in response to implemented management practices.

VIEW CHART VIEW TABLE



Report Trend Results





Indicators

- Publications
- Storymaps
- Trend Reports

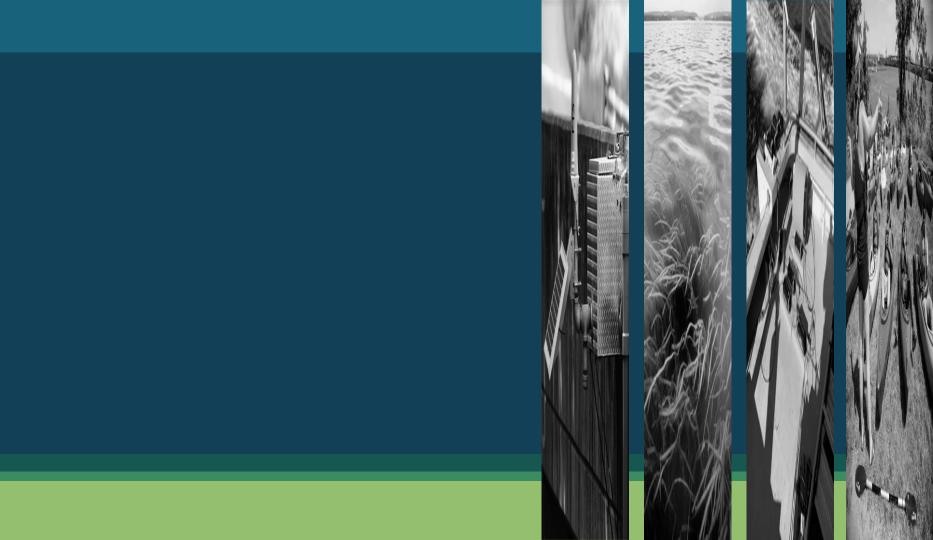
Tributary Storymaps





Takeaways

What are the major takeaways of the progress for the outcome?







Tidal Monitoring

Community Science

Challenges: Sustaining Monitoring

- ✓ Enhanced monitoring
 ✓ Infrastructure funding support
- ✓ Time to strategize plan

Challenges: Sustaining Monitoring × Lose monitoring capacity and data

× Fall into separate groups

Challenges: Beyond 2025 – Outcome Language

CONTINUE TO IMPROVE...

STATUS OF WATER QUALITY STANDARDS...

MULTIPLE COMPONENTS WITHIN OUTCOME...



Challenges: Beyond 2025 – Outcome Language

In conjunction with Beyond 2025 efforts, the team wants to revise the WQSAM Outcome language to better track progress in monitoring and assessment.



Discussion



Takeaway #1

Prioritize
 developing a
 funding strategy to
 sustain monitoring

Takeaway #2

Revise WQSAM Outcome as a SMART outcome to better track progress which we will bring back to MB

ChesapeakeProgress Icons

















Monitoring Funding Levels

