

# New York's TMDL Strategies to Protect Downstream Waters

2023 National Training Workshop on Water Quality Data, Assessment, and Plans June 23, 2023

## **Nutrient TMDLs in NY**

 Historically focused on phosphorus in ponded waters with small watersheds

Interstate TMDLs

 Have recently been using strategies from interstate TMDLs protecting downstream waters to develop larger watershed TMDLs in NY

#### **Examples of whole watershed approaches**

1. Interstate TMDLs – Chesapeake Bay

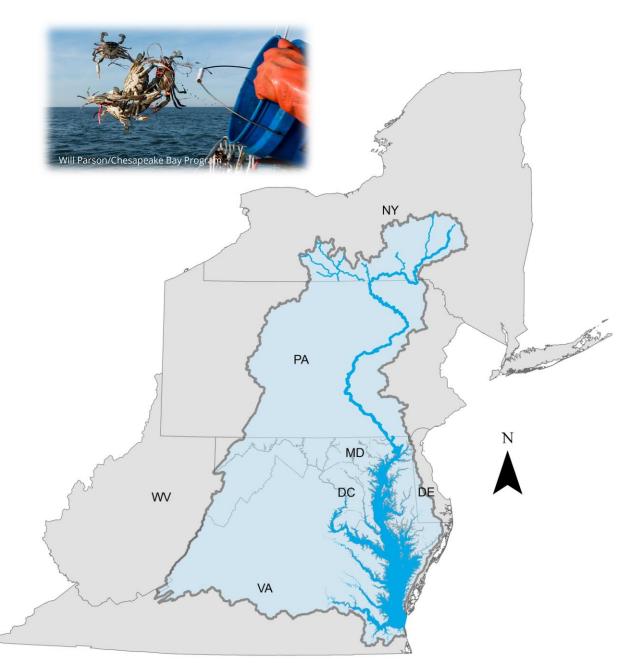
 Protect flowing drinking waters at the mouth of a large watershed – Mohawk River\*

3. Flowing upstream waters and receiving ponded water – Wallkill River\*



### **Chesapeake Bay TMDL**

- Susquehanna and Chemung Rivers are the northern headwaters of the Bay
- Portions of 19 counties in NY are within the watershed boundary
- NY assigned targets for nutrients delivered annually to the Bay by 2025:
  - TN: 11.79 million lbs
    - Reduction of 1.04 million
  - TP: 0.476 million lbs
    - Reduction of 0.072 million

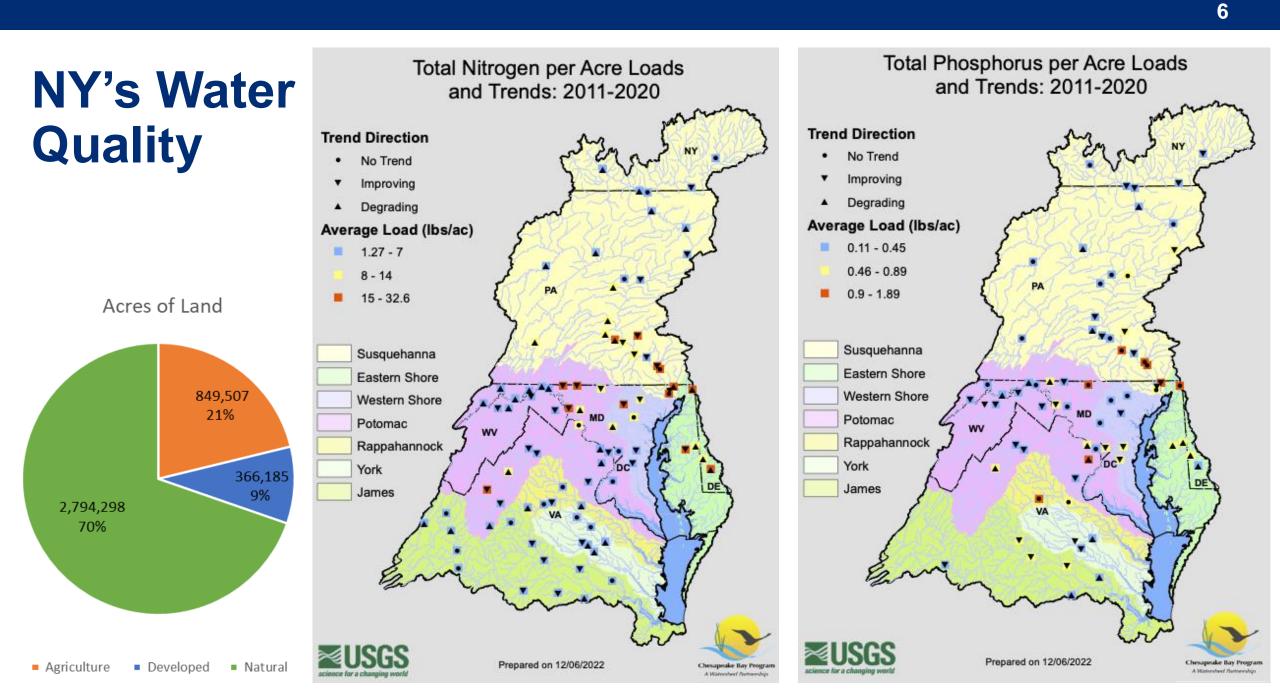


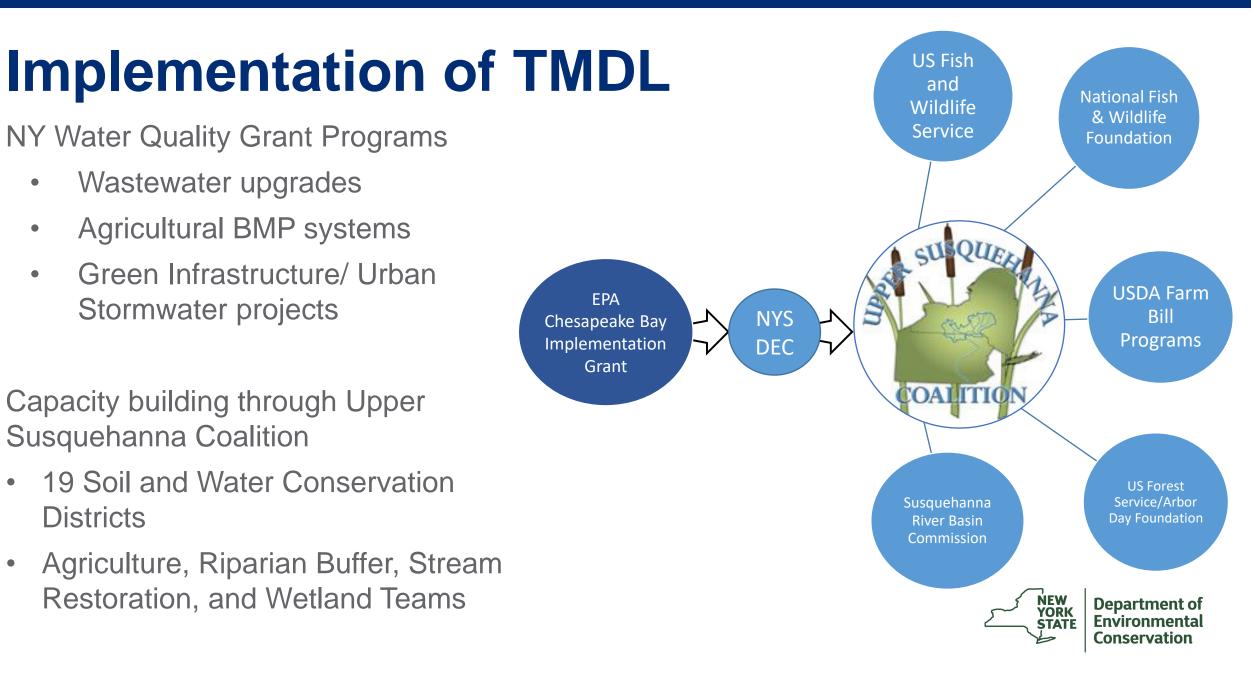
# **History of Water Quality Issues**



Multi-state program formed to address dead zones caused by excessive nutrients		EPA releases Total Daily Maximum Load (TMDL) for the Chesapeake Bay		2	Third and final NY Watershed Implementation Plan Released		
	2000		2014			2025	
1980's		2010			2021		1
	NY signs MOU with other states to help restore the Bay		NY signs Watershe	•	-		Implementation Deadline

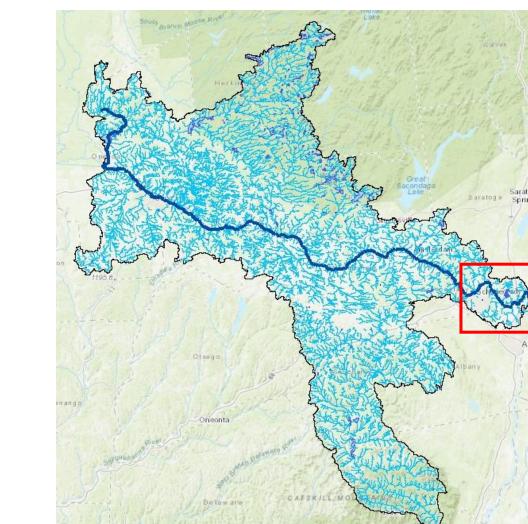






### Mohawk River TMDL -Proposed Approach

- Set site specific targets for protection of drinking water segments
- Base targets upon relationships between TP, organic material, and formation potential of disinfection byproducts
- Implementation and funding will be expected to occur watershed-wide





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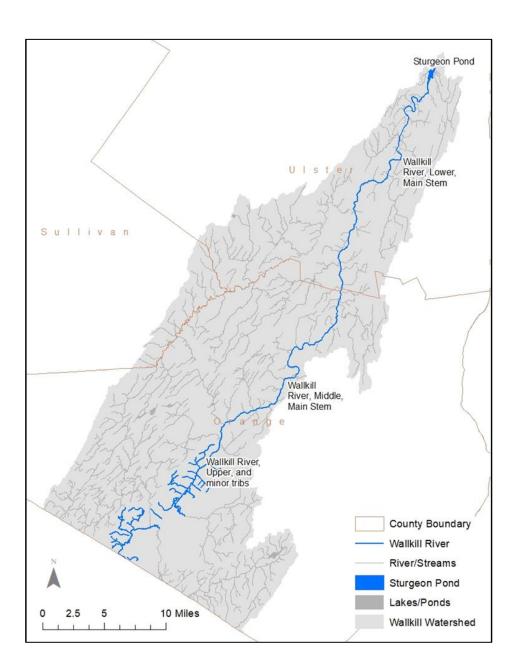
#### Wallkill River Watershed – Proposed Approach

4 segments with highest best uses of primary or secondary recreation

Ultimate basin is an impaired ponded water

3 flowing water segments impaired based on downstream impairment

Develop targets based on downstream ponded water



### **Thank You**

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