
WATER QUALITY MONITORING WORKSHOP

Hudson River
Watershed Alliance



EMILY VAIL

EXECUTIVE DIRECTOR
HUDSON RIVER WATERSHED ALLIANCE

WELCOME!

- Workshop organized by:



- Sponsored by:



A Program of the New York State Department of Environmental Conservation

**Hudson River
Estuary Program**



- Hosted by:



HUDSON RIVER WATERSHED ALLIANCE

- Unite and empower communities to protect their local water resources
- Education, training, networking



Lower Wappinger Community Resilience Building Workshop

HUDSON RIVER WATERSHED ALLIANCE

- Support local watershed groups
- Improve inter-municipal coordination
- Communicate as a collective voice



Watershed Roundtable Paddle – Esopus Creek

UPCOMING EVENTS

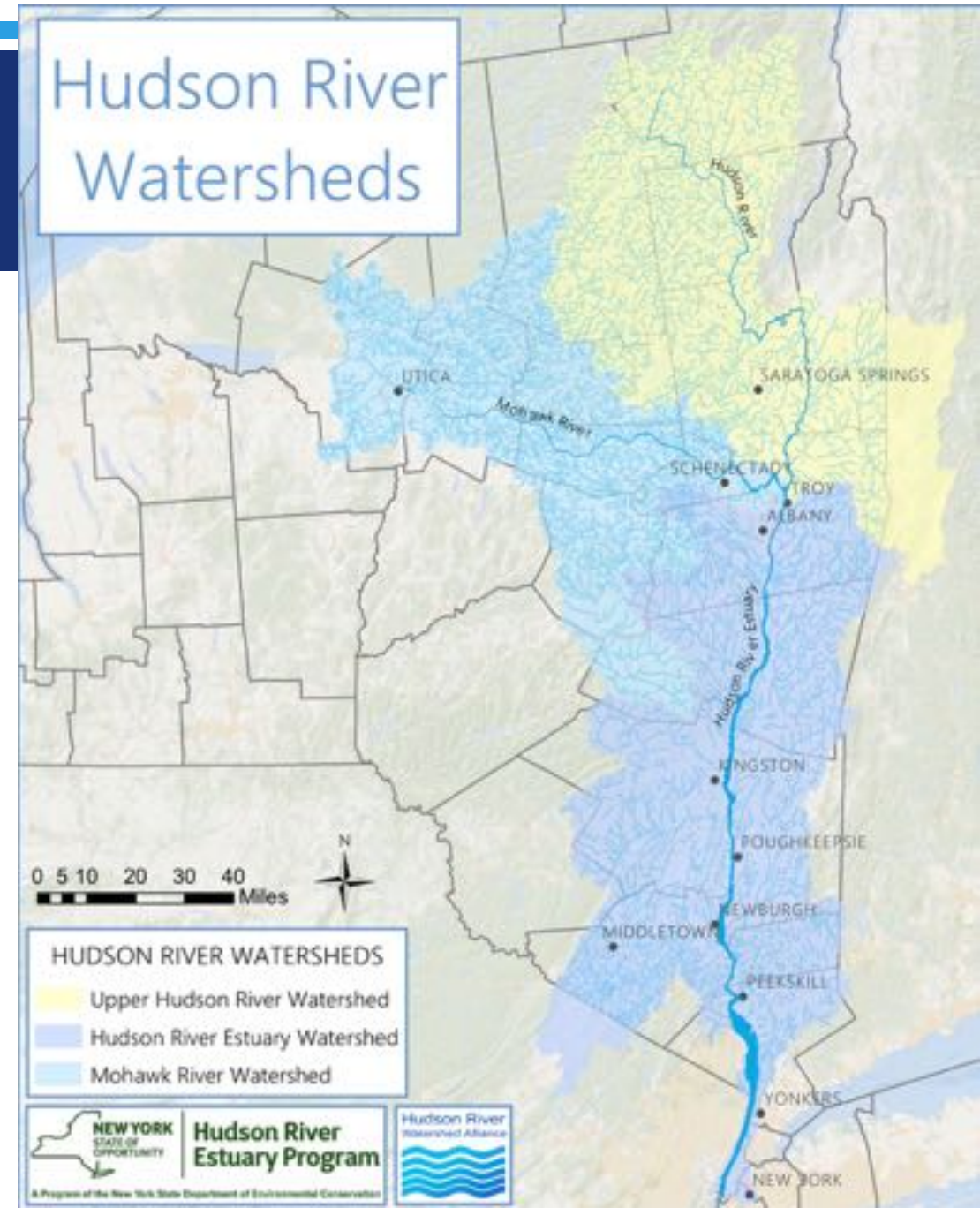
- Thursday, 12/12 in New Paltz
Mid-Hudson Watershed
Breakfast Series:
Keeping Asian Carp Out of
the Hudson River
- Friday, 12/13 in Troy
Upper Hudson Speaker Series:
Patroon Creek Daylighting



Upper Hudson Speaker Series

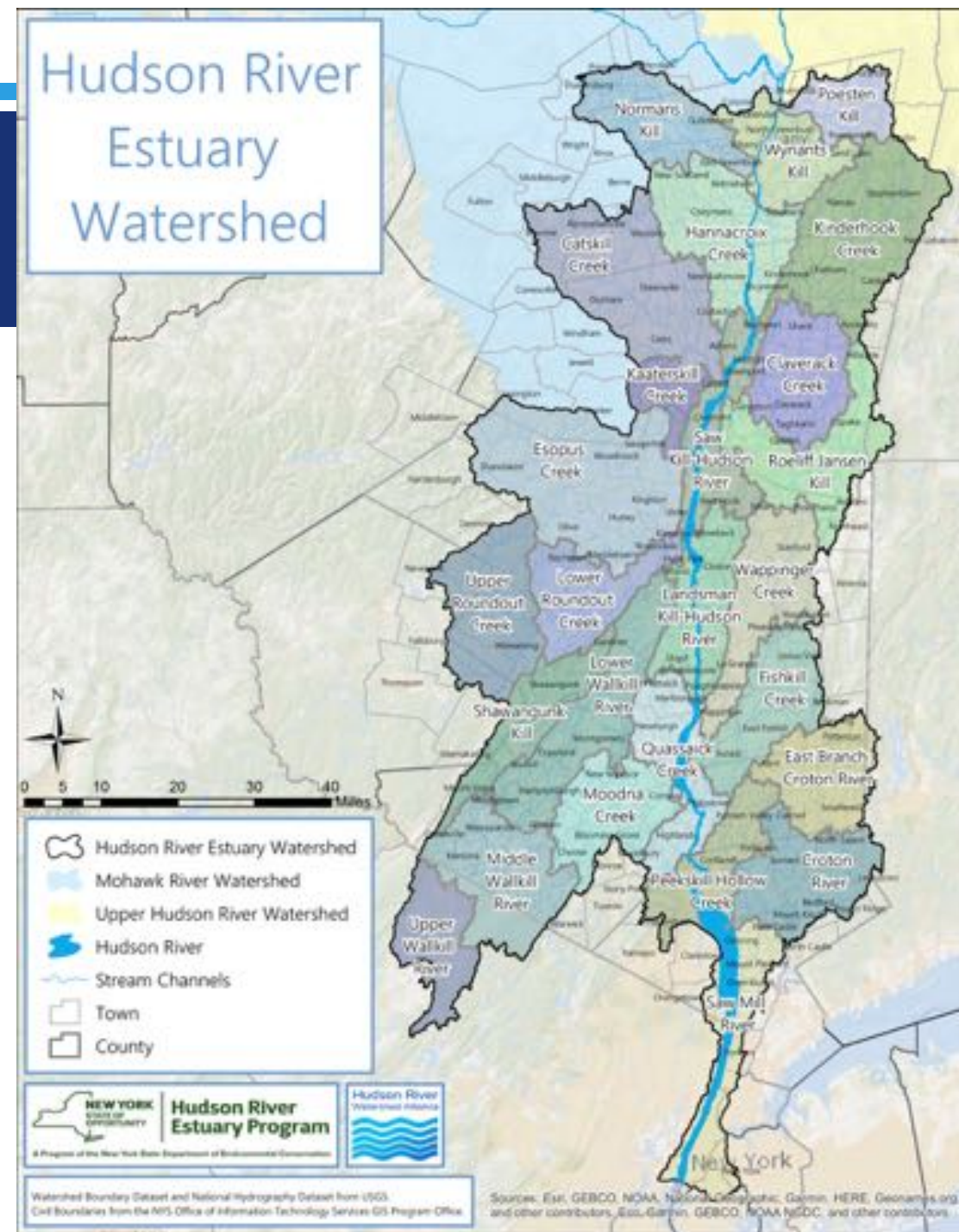
HUDSON RIVER WATERSHED

- Hudson River watershed
= 13,000 square miles
- Hudson River Estuary watershed
= 5,000 square miles
- 8,861 miles of freshwater rivers
& streams
- 324 significant freshwater lakes,
ponds, & reservoirs (37,676 acres)



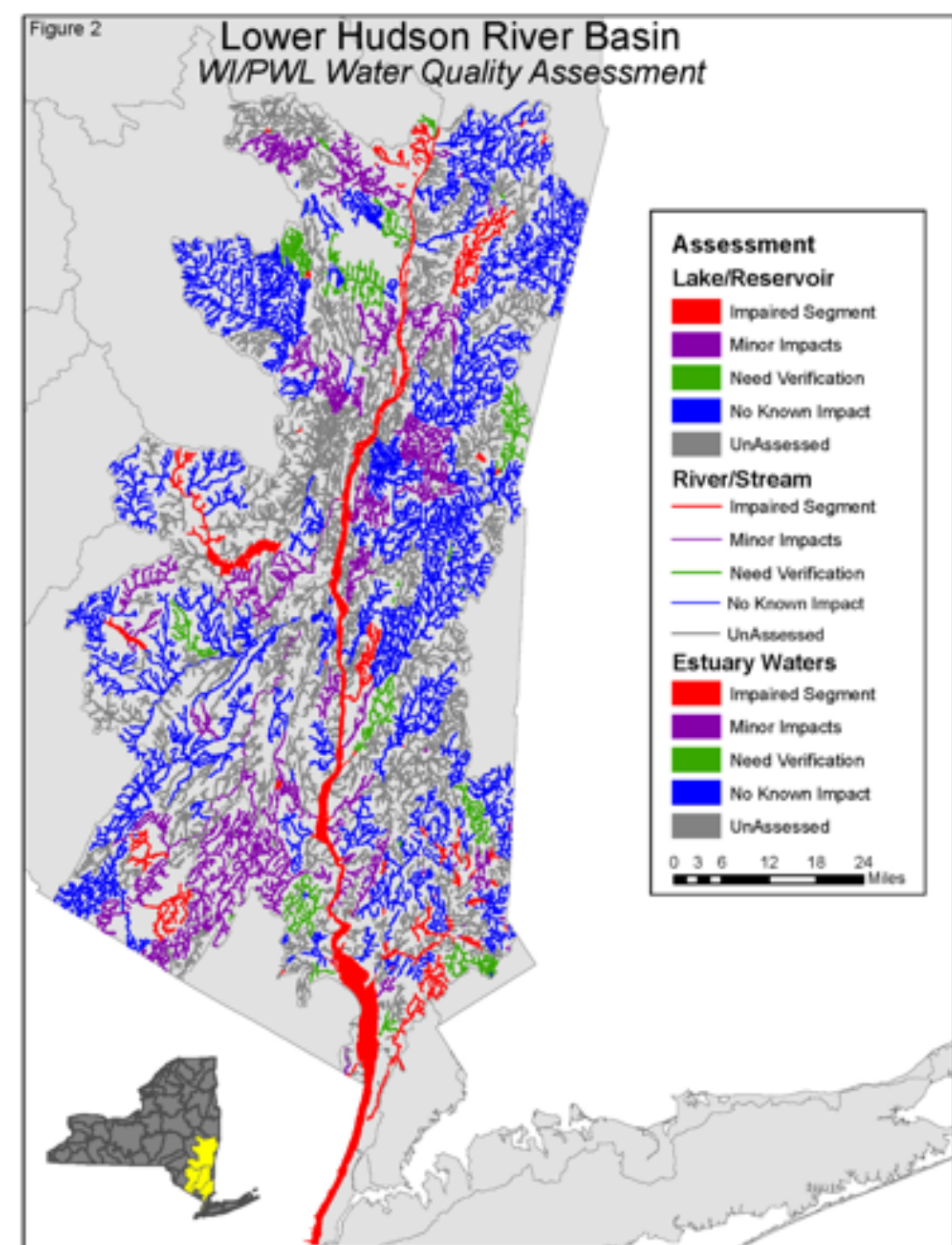
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WATERSHED GROUP MONITORING

- Role many watershed groups play
 - Collecting new data
 - Using existing data
 - Refining methods
 - Prioritizing projects
 - Creating partnerships



November 2019 Watershed Roundtable

WATERSHED GROUP MONITORING

- Questions:
 - How do you get started?
 - How much data is enough?
 - How do we interpret & communicate findings?



Sampling in the Saw Mill River

WHY MONITOR?

- To better understand our rivers and streams
- To better understand how to improve or protect them
- But how do we get there?



Sampling in the Roe Jan (photo: Kathryn Clark)

MONITORING GOALS

- Educate residents and participants
- Build watershed community, buy-in
- Understand baseline or general conditions
- Identify specific sources of pollution
- Document extent or duration of issues
- Track long-term changes over time
- Update DEC's Priority Waterbodies List
- Inform research



24-hour monitoring in the Sing Sing Kill

MONITORING GOALS

- What methods or parameters?
- Timeframe/duration?
- Spatial extent?
- How to keep sustainable?
 - Capacity, funding, time



Sampling in the Saw Kill

MONITORING TO INFORM ACTIONS

- Who do you want to use your data? (DEC, municipalities, watershed groups, researchers?)
- What will they be able to do?
- What is the best way to analyze, package, and communicate the information to achieve those goals?



Sampling in the Wallkill River (photo: NYS DEC)

TODAY'S AGENDA

- Introduction
- Long-term monitoring, community science, regulatory approaches
- Lunch
- Citizen science case study, source tracking, monitoring partnerships
- Panel discussion for Q&A
- Fill out the evaluation!



THANK YOU!

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Hudson River
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*Uniting & empowering communities
to protect local water resources*