

Welcome to the Bay of Green Bay National Estuarine Research Reserve (NERR) Technical Webinar

OBJECTIVES

- Provide updates on the designation process and timeline
- Share natural area site-selection criteria
- Solicit feedback on the candidate natural areas



We at the University of Wisconsin-Green Bay acknowledge the First Nations people who are the original inhabitants of the region. The Ho-Chunk Nation and the Menominee Nation are the original First People of Wisconsin and both Nations have ancient historical and spiritual connections to the land that our institution now resides upon.

Today, Wisconsin is home to 12 First Nations communities including the Oneida Nation of Wisconsin, Forest County Potawatomi, Ojibwe Nation communities, Stockbridge-Munsee Band of the Mohicans, and the Brothertown Indian Nation.

We acknowledge the First Nations People of Wisconsin.



What is a National Estuarine Research Reserve (NERR)?

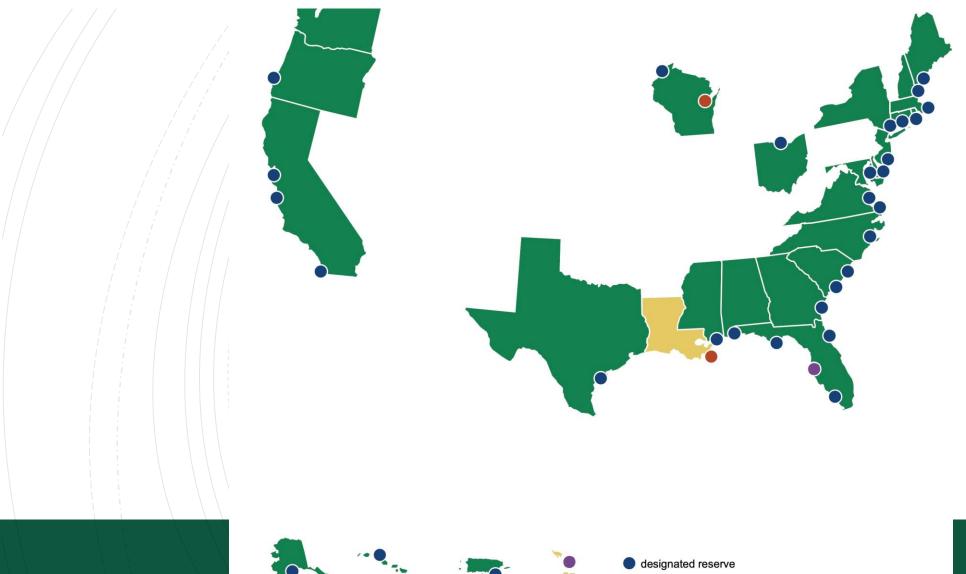
- Non-regulatory state-federal (NOAA) partnership focused on research and education around waters, estuaries, and coastlines.
- For the selection of natural area site(s), we are only considering publicly owned lands or lands open to the public, there is no new purchase of lands.



What is a National Estuarine Research Reserve (NERR)?

proposed reserve

designation in process



Puerto Rico

Hawaii



WHAT DOES A NERR DO?

- 1. Address coastal management issues
- 2. Enhance public awareness and understanding of estuaries and coasts
- 3. Platform for coordinating research, education, stewardship
- 4. Celebrate holistic water connections to our communities and ecosystems



Research



Education



Stewardship



Training





Committees were formed to:

- Represent a range of interests around the bay
- Breadth of professional expertise
- Geographic representation

Members include representation from the Oneida Nation, Menominee Indian Tribe of Wisconsin, Wisconsin Sea Grant, Department of Natural Resources, UW-Extension, the University of Wisconsin-Milwaukee, Ducks Unlimited, US Fish and Wildlife Service, Microsoft TechSpark Wisconsin, the Wisconsin Coastal Management Program, the Calumet County Department of Administration, the Nature Conservancy, Wisconsin Wetland Association, NEW Water, Door County Soil and Water Conservation, Fincanterri Marine Group, NOAA Great Lakes Environmental Research Lab, Marinette School District, and Friends of Gibraltar Schools.



Site Coordination Committee

- Provide leadership and oversight to state designation
- Build state-wide regional support for the Bay of Green Bay NERR
- Complete Site Nomination Document for submission to Governor's Office
- Size of committee: 11 members

Site Development Committee

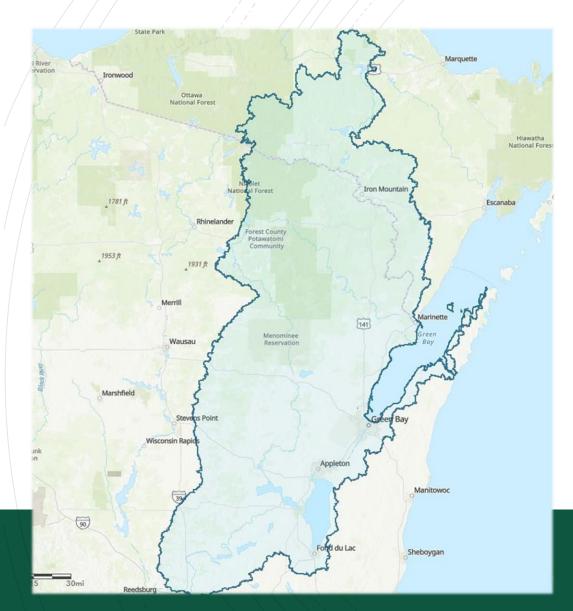
- Draft Site-Selection Criteria
- Determine Relevant Coastal Geography
- Pre-screening to determine 3-5 optimal natural area candidate sites
- Size of committee: 8 members

Site Evaluation Committee

- Apply Site-Selection Criteria to natural area candidate sites
- Recommend a site/assemblage of natural areas for the NERR
- Delineate the boundaries of the natural areas site(s) of the NERR
- Size of committee: 16 members



THE PROCESS AND UW-GREEN BAY ARE AGNOSTIC ON SPECIFIC LOCATION(S) WITHIN THE BAY OF GREEN BAY



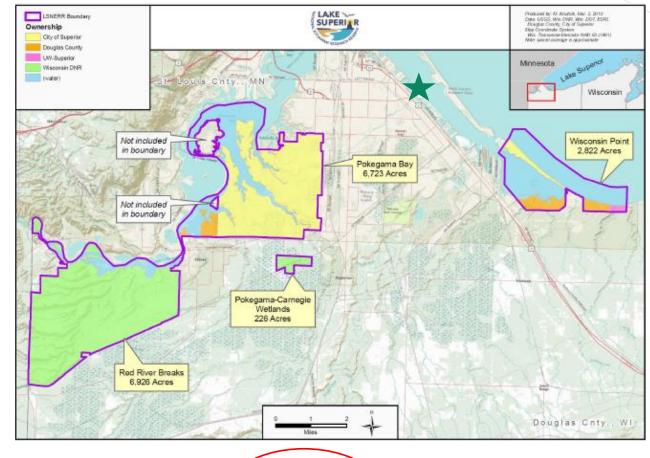
The goal of prescreening is to narrow the universe of the possible to a subset of most likely natural area sites for application of detailed criteria



The Bay of Green Bay Estuary is a large, dynamic, and complex system

Site selection of natural areas must capture two important gradients:

- 1. The disturbance gradient from minimally impacted habitats to areas recently restored
- 2. The south-to-north gradient capturing morphologic, estuarine, and trophic conditions driven by the hypereutrophic waters of the Fox-Wolf watershed in the south and the oligotrophic waters entering the bay from Lake Michigan





Facilities







I. Environmental Representativeness



II. Value of the Site for Research, Monitoring, and Resource Protection



III. Suitability of the Site for Education and Interpretation



IV. Acquisition and Management Considerations



V. Natural Resource and Build Infrastructure Resilience to Climate Change Impacts

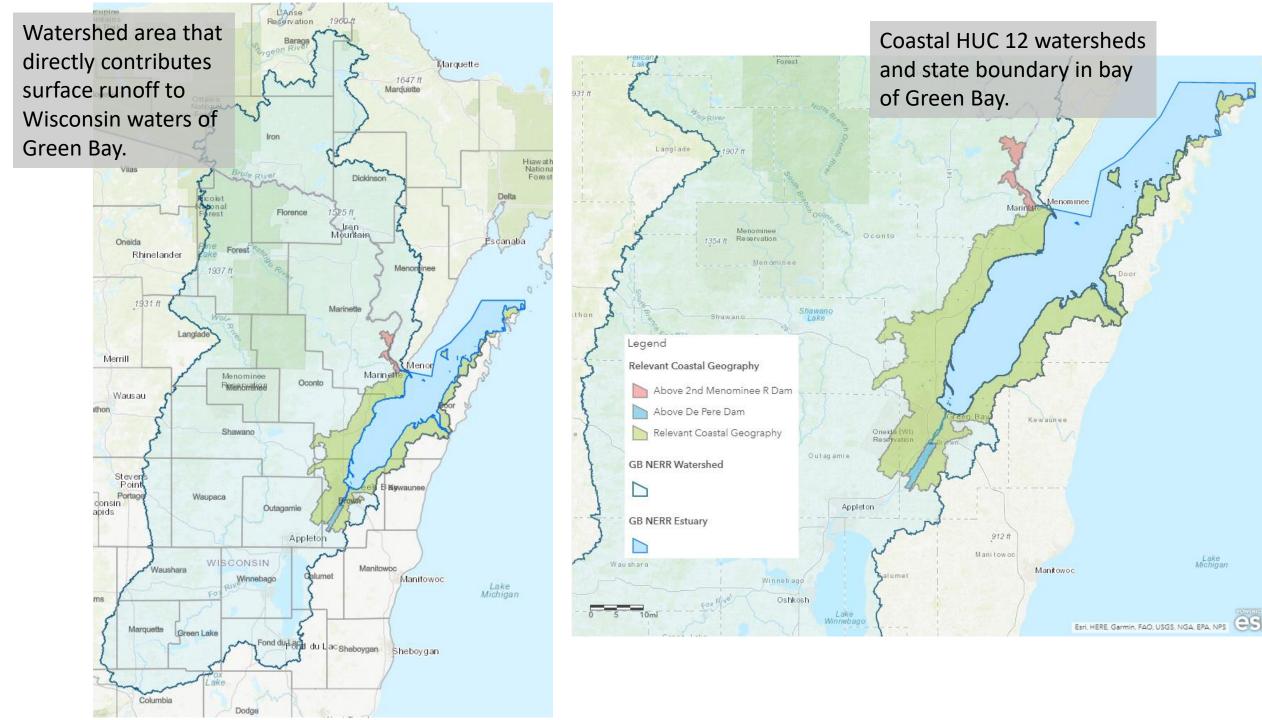


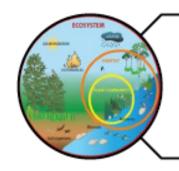
VI. Partnership Building



VII. Institutional Commitment







IDENTIFICATION OF POTENTIAL SITES THAT ARE REPRESENTATIVE

of the biogeography, suitable for long-term research and education, compatible with existing uses, and containing key land and waters to approximate an ecological unit. Look at potential sites within the entire biogeographic sub-region of the state.

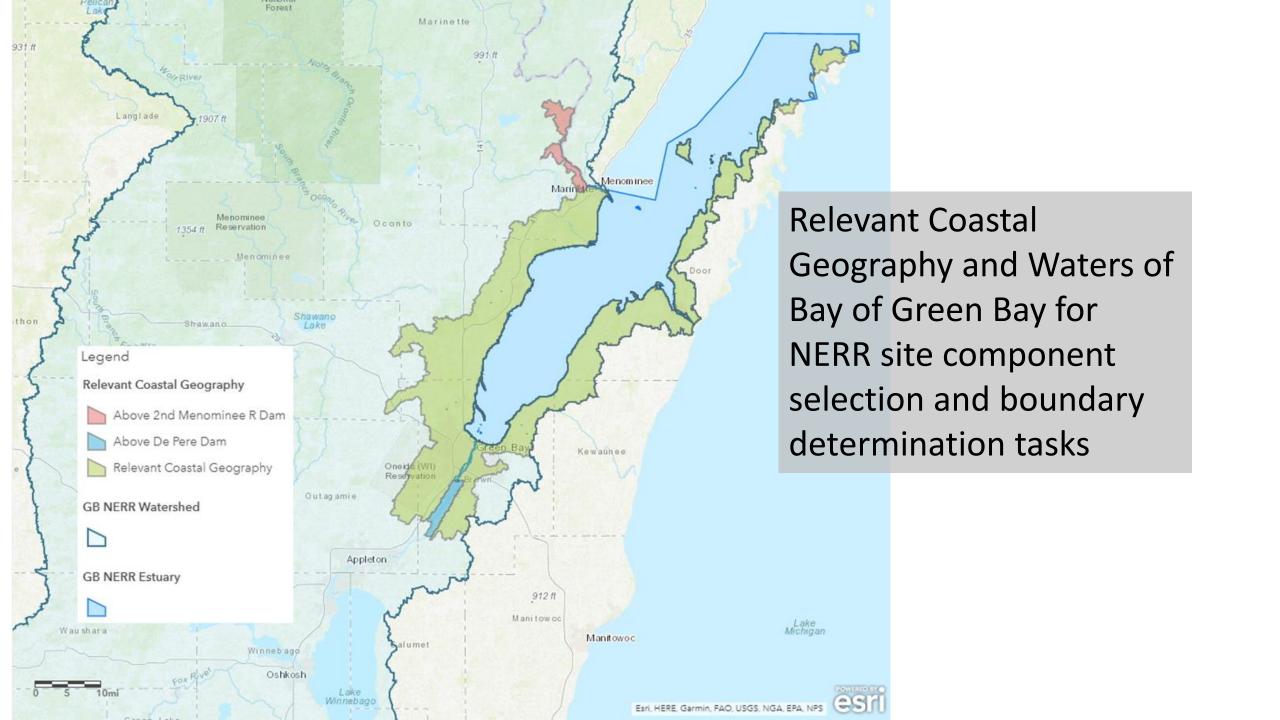
Pre-screening

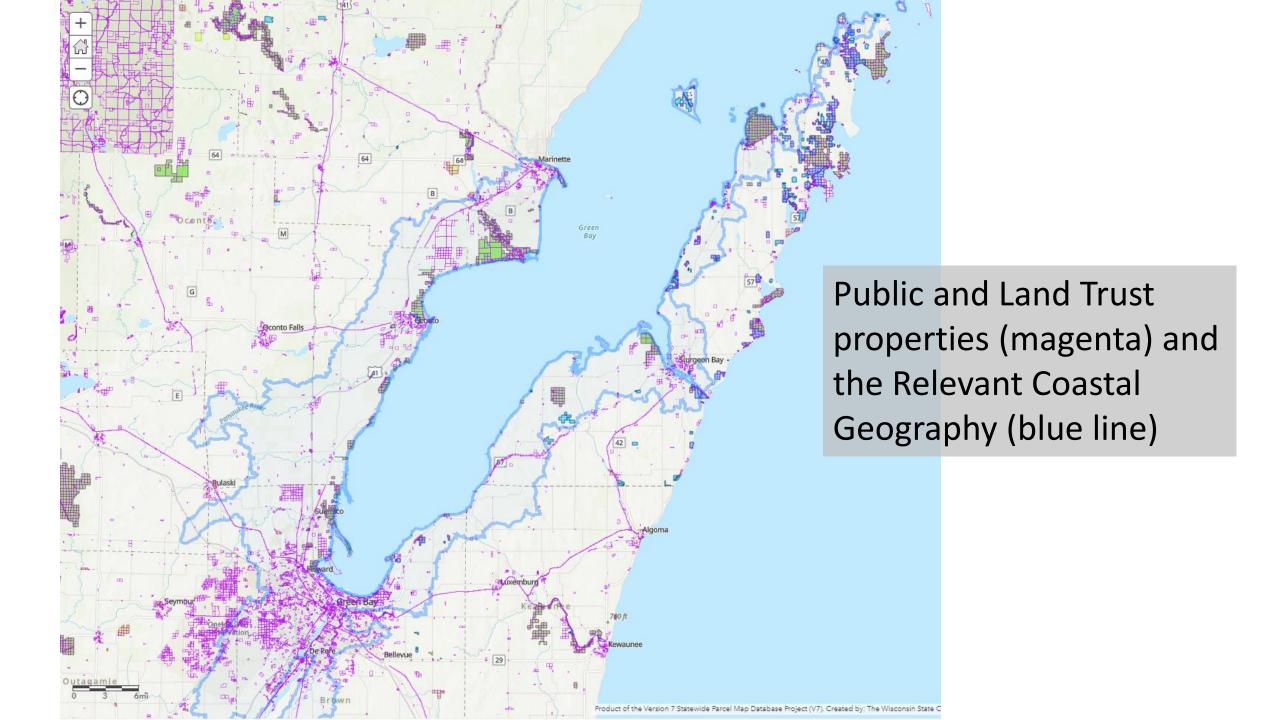
Narrow the field of possible areas for application of the detailed site criteria.

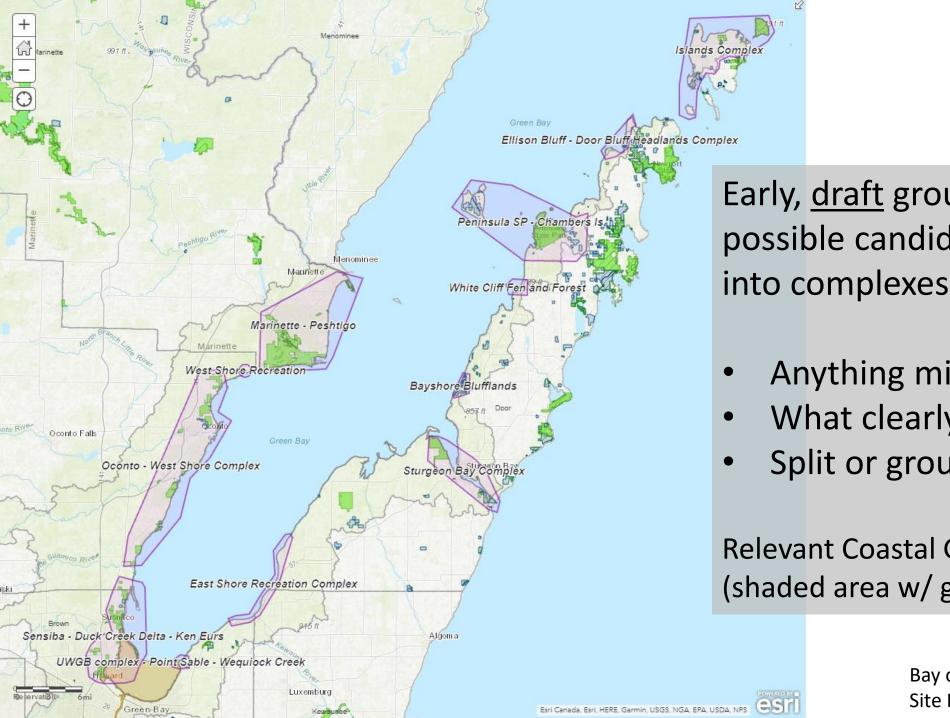
Four Pre-screening Criteria*

- 1. Is the area publicly owned or a land trust property?
- 2. Is the area coastal/estuarine?
- 3. Is the area connected to the estuary in a significant way?
- 4. Does the area have features aligned with the research and education goals of the NERR (i.e. not a playground)

^{*}Natural areas



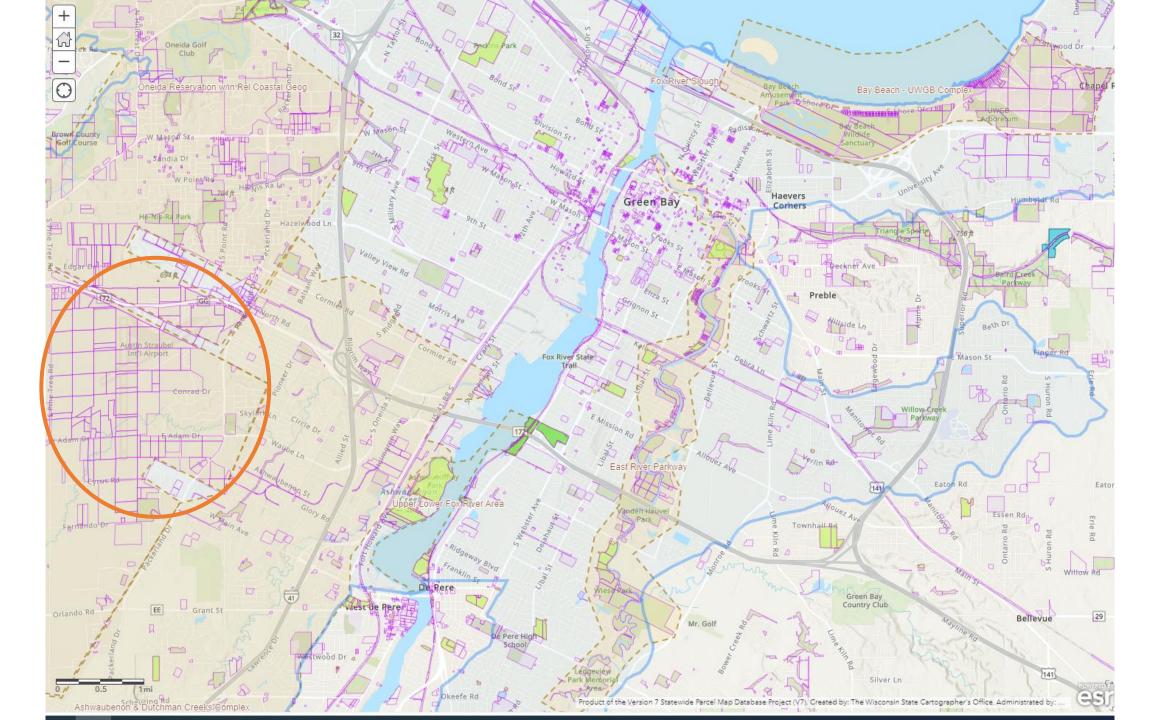


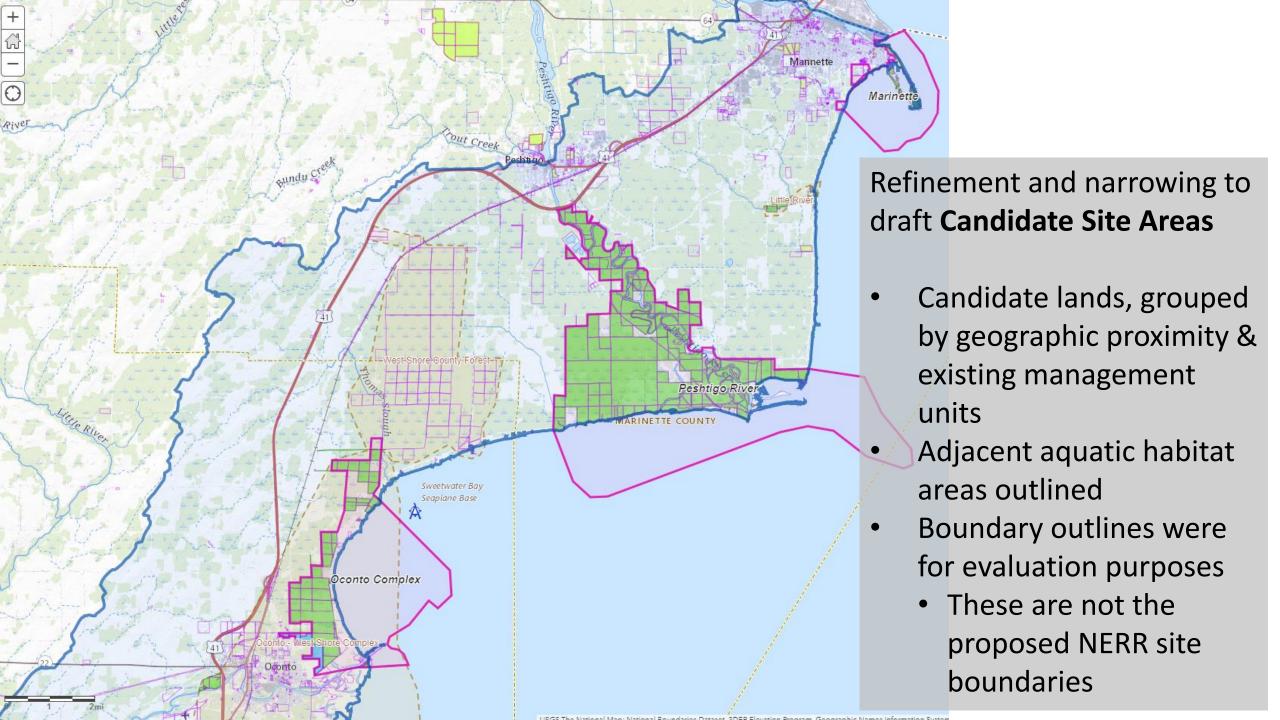


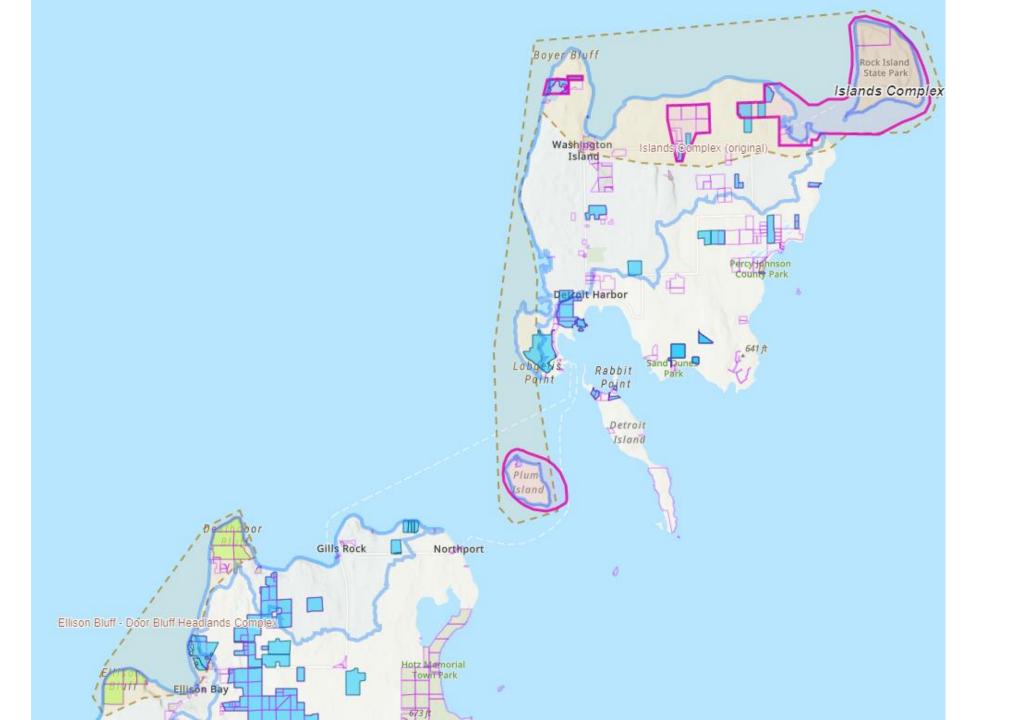
Early, draft grouping of possible candidate land areas into complexes (~Nov 2021)

- Anything missing?
- What clearly does not fit?
- Split or group?

Relevant Coastal Geography (shaded area w/ grey outline)

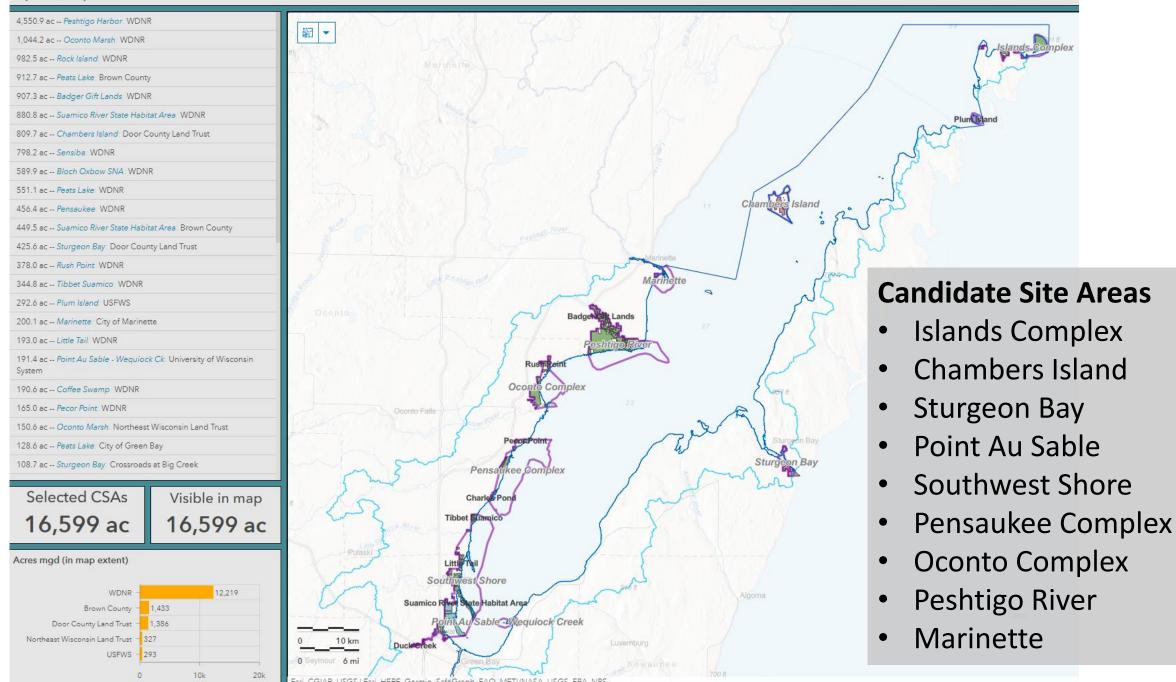






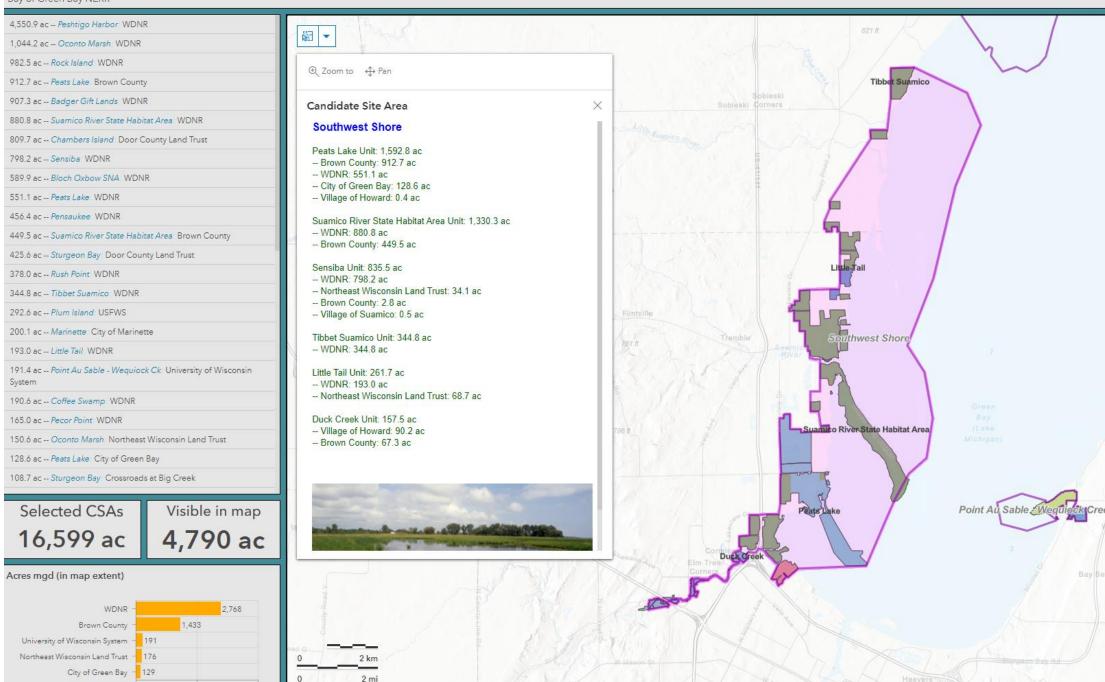
Candidate Areas Explorer

Bay of Green Bay NERR



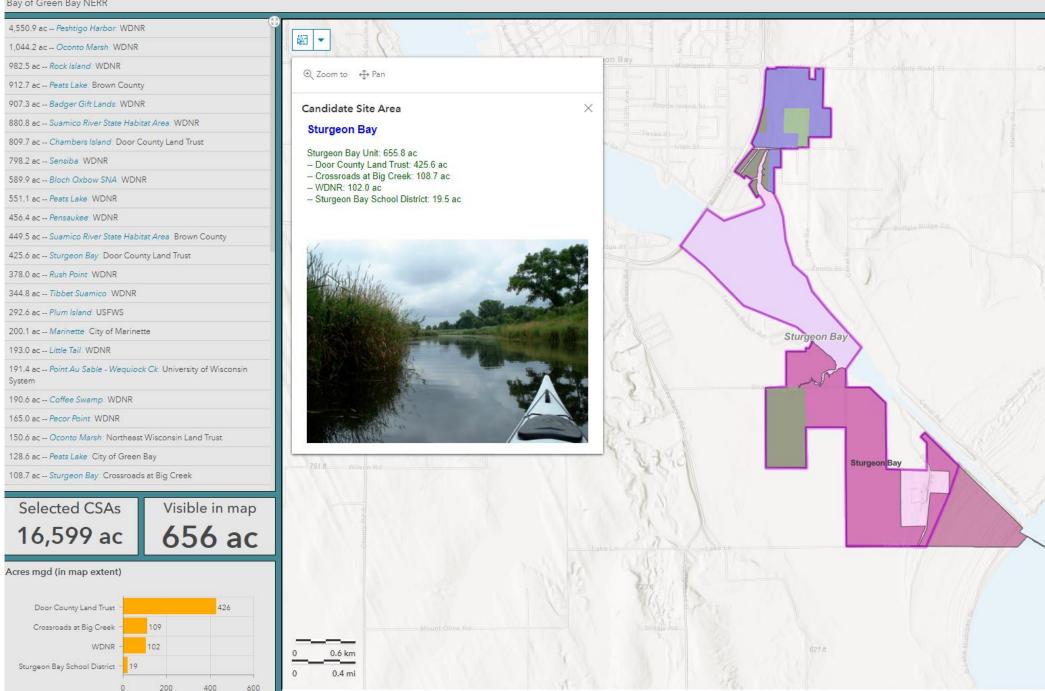
Candidate Areas Explorer

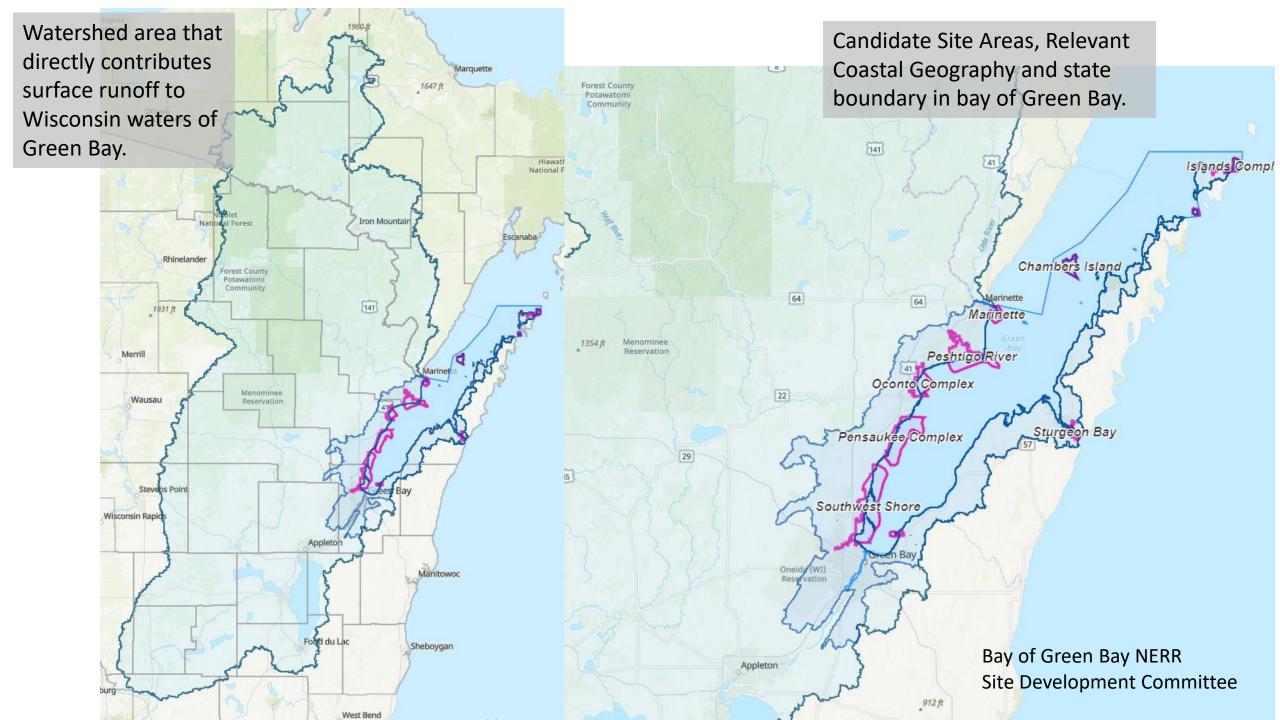
Bay of Green Bay NERR



Candidate Areas Explorer

Bay of Green Bay NERR





National Estuarine Research Reserve Designation Key Steps and Roles

Bridget Faust-Accola
NOAA Office for Coastal Management



Next Steps in the Site Selection and Nomination Process

- 1. Site nomination document preparation (state designation team)
- 2. Submittal of site nomination document to NOAA (Office of Governor Evers)
- 3. Review of site nomination document (NOAA)
- 4. Acceptance or rejection of site nomination (NOAA)

The Connecticut National
Estuarine
Research Reserve

Site Selection & Nomination Report

December 21, 2018

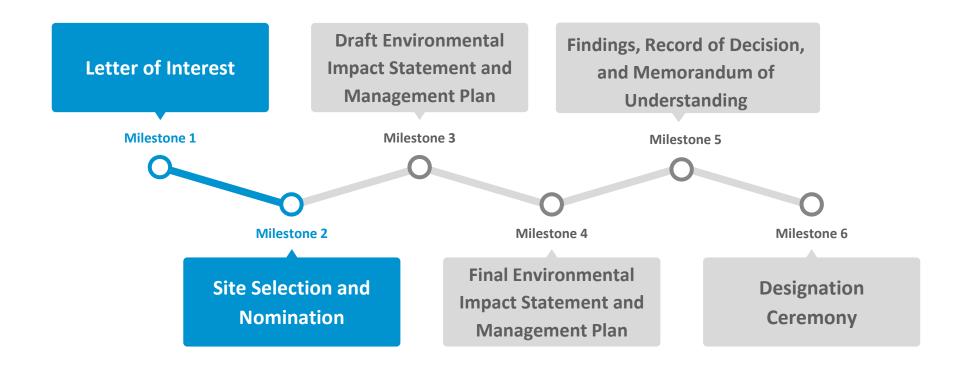








Designation Process Milestones and Roles





Federal-State Partnership

State role

- Land ownership and management
- Reserve staff members
- Program implementation
- Funding (30 percent match)

Federal role

- National policy and program guidance
- Technical assistance
- Program coordination
- Funding (70 percent)







Questions?

Bridget.Faust@noaa.gov



NEXT STEPS FOR CONTRIBUTING FEEDBACK

- Tuesday, May 17th 2-3 pm (cst) Virtual question-and-answer session for more in-depth discussion of candidate natural areas
- Revisiting the candidate natural areas email Emily Tyner (tynere@uwgb.edu)



Bay of Green Bay NERR Designation Timeline

2022	2023	2024		End of 2024
Select NERR Sites - Natural			Finding and Record of	
Areas	Select NERR - Education and Visitor Center location		Decision	Designation
	Write NERR Management Plan			
	Prepare Environmental Impact			
	Statement (with NOAA)	Develop NOAA-State MOUs		



