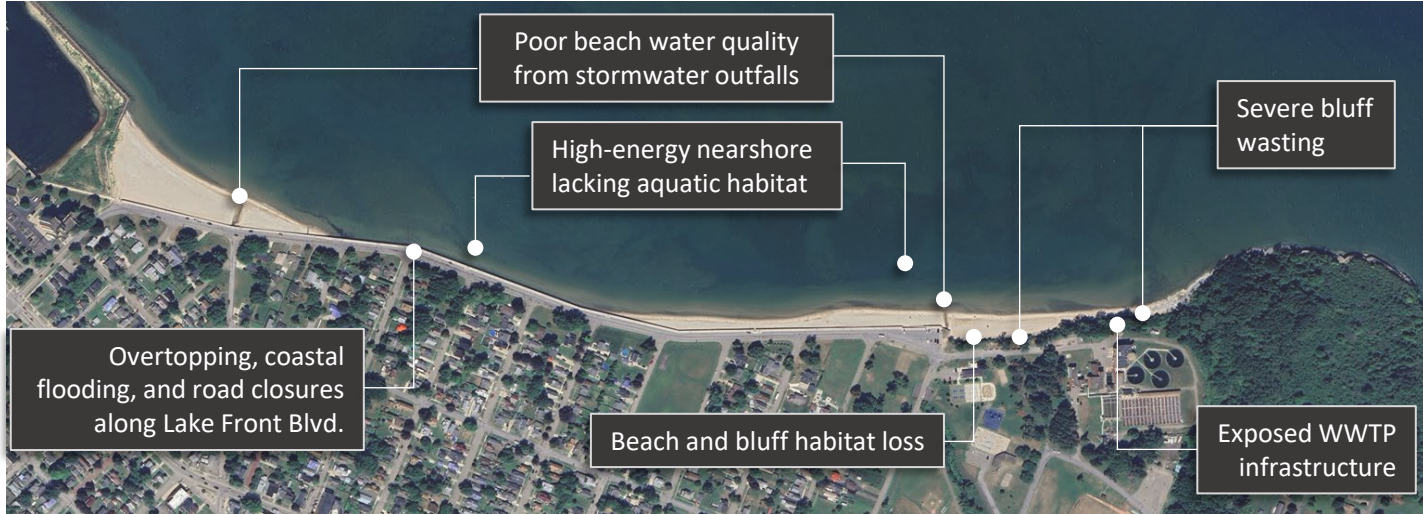


Wright Park Beach/Bluff and Lake Front Blvd. Resilience Project

Resilient Coastal Projects Initiative (RCPI)

Funded by the National Fish and Wildlife Foundation National Coastal Resilience Fund

Existing Conditions and Resilience Challenges



RCPI Objectives

Conceptualize nature-based projects that address resilience challenges within communities

Design projects that benefit both nature and community

Build community capacity toward project completion

Project Goals:

Goal 1: Leverage nature-based solutions to improve Dunkirk's resilience to fluctuating Lake Erie water levels and seiches

Goal 2: Restore and create habitats for native species of community interest

Project Vision:

Functional shorelines that protect city infrastructure, public resources, and nearshore habitats from seiches and storms

Publicly accessible and safe waterfront spaces

Project Development Timeline

Phase 1:

Project Concept Development

- Completed Summer 2024
- Funded by NFWF NCRF Grant

Phase 3:

Final Design and Permitting

- Anticipated Fall 2026 - Fall 2027
- Pre-proposal submitted to NCRF

Phase 5:

Post-implementation monitoring and maintenance

Phase 2:

Site Investigation and 30% Wright Park Beach Design

- To be completed September 2026
- Funded by NFWF NCRF Grant

Phase 4:

Project Implementation

- Anticipated to begin Spring 2028
- Funding source TBD

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Proposed Lakefront Blueprint



Key Design Objectives and Benefits

Wright Park bluff fortification strategy:

1. Emergency back-of-bluff armoring to manage wave impacts, bluff slumping, and groundwater seepage
2. Bluff slope relaxation and ecological restoration to improve soil stability and restore key habitat zones
3. Dynamic shorelines utilizing cobbles and willow-enforced foredunes

Multi-dimensional wave attenuation strategy:

1. Wave attenuating offshore breakwaters
2. Shore-attached structures for wave protection and beach retention
3. Beach crest elevation increase and bluff slope relaxation to improve wave run-up conditions

Increased habitat quantity and quality:

- Improved water quality from outfall extensions and stormwater management
- Increased structural diversity, shelter, and spawning substrate for native fish
- Restored beach and bluff habitat for pollinators, migratory birds, and turtles

Improved public resource protection and access:

- Increased protection of critical roadways, utilities, stormwater infrastructure, and wastewater treatment plant pipe network
- Expanded waterfront recreation opportunities and access to beaches, trails, and wildlife viewing

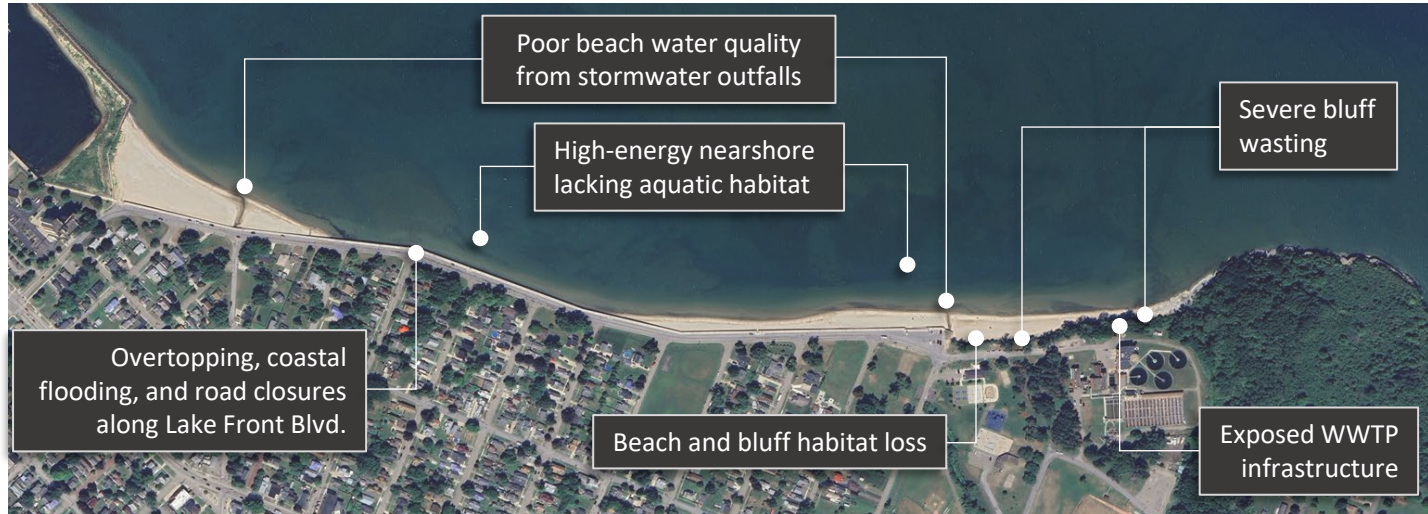
Project Contact: Michelle Platz
Office: 734-821-3141 email: mplatz@limno.com

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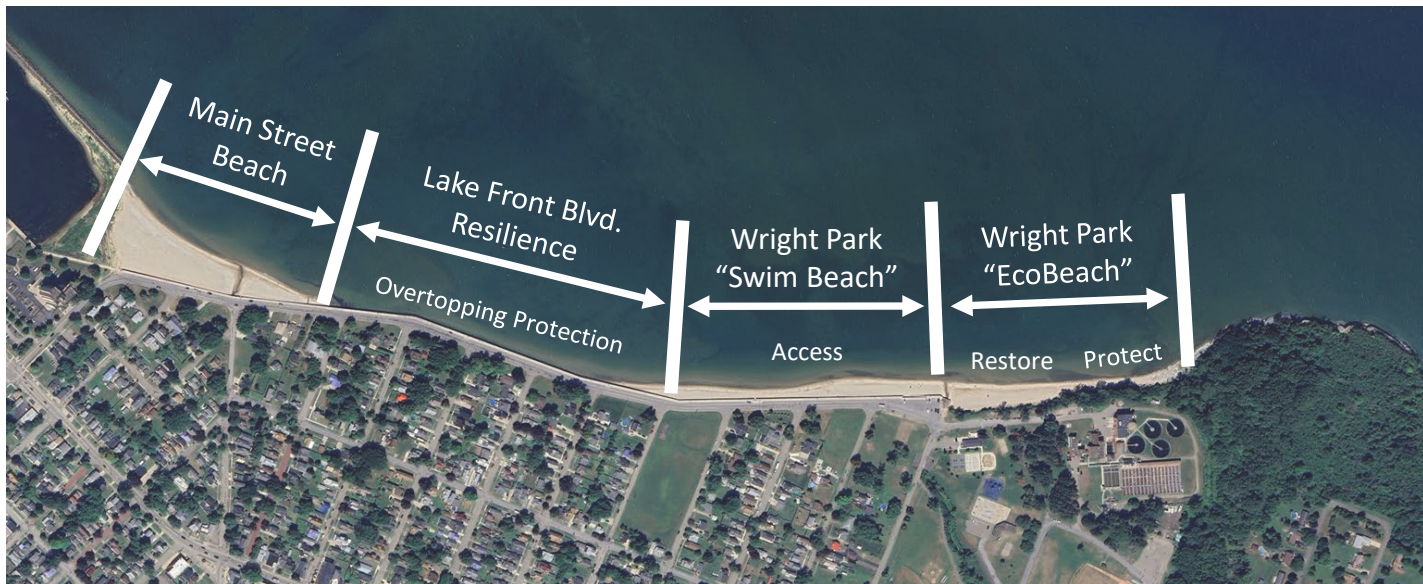


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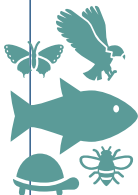
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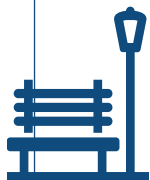
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