

# Coastal Protection Projects

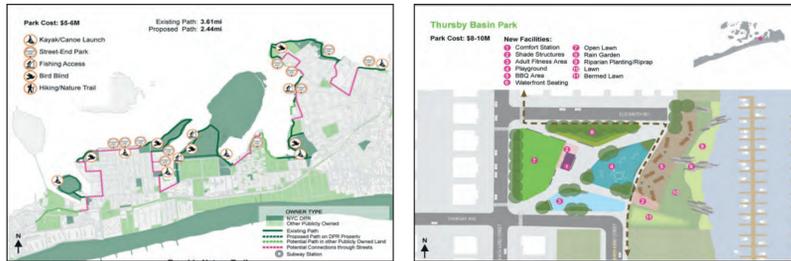


## Project Description:

In four locations along the Bay in Rockaway East (Somerville Basin, Little Bay, Mott Basin, and Thursby Park) there is an opportunity to incorporate coastal protection measures with the City's Parks Department's future recreational plans and US Army Corps' proposed restoration sites. The following strategies alone will not protect against a 100-year storm event, however, they may help protect local areas from flooding due to sea level rise, moon tides, and more frequent storm events. Additionally, these strategies can be coupled with existing programs, such as the NYC EDC program for bulkhead repair or raising, to create a first step towards meaningful bayside coastal protection.

## Rationale:

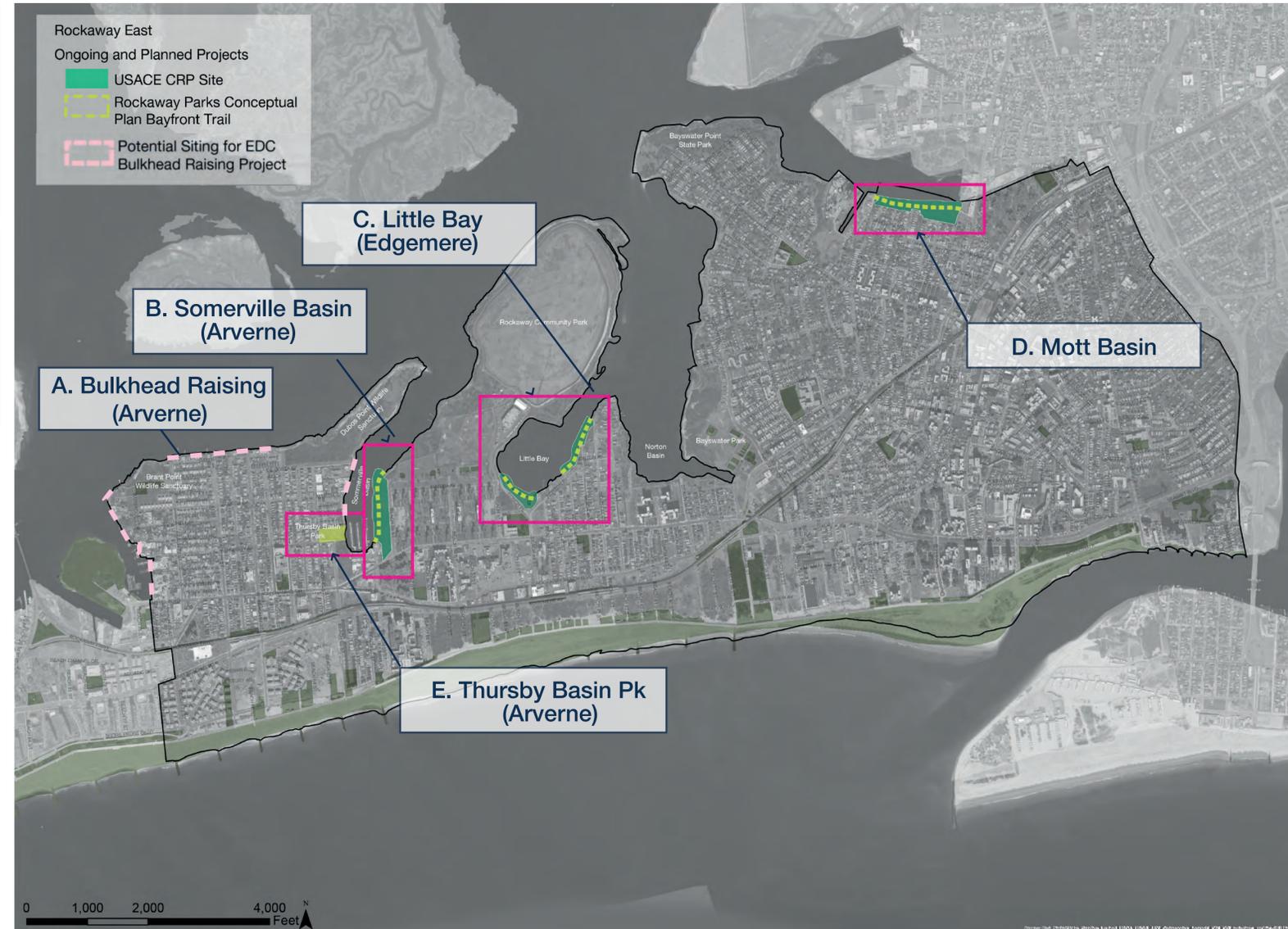
The bayside neighborhoods in Arverne, Edgemere, and Mott Basin are particularly at risk of coastal flooding from regular tidal and stormwater events. While comprehensive protection is a long-term and expensive endeavor, ongoing City and State projects provide an opportunity to incorporate resiliency into smaller restoration and recreation projects. The Rockaway Parks Conceptual Plan is a comprehensive guide for future development of Rockaway Parks, while the USACE Comprehensive Restoration Plan (CRP sites) is an overview for restoration throughout the Bay. Both programs offer an opportunity to incorporate coastal protection and drainage measures that can provide smaller, localized protection from more frequent flooding events, along with gaining momentum for longer-term resiliency interventions.



Rockaway Park Conceptual Plan visions for a bayside trail (above, left) and Thursby Park (above, right). The plan calls for bioswales to help with drainage in Thursby Basin. An example of a bioswale can be found on Elvira Avenue in Rockaway East (right).



USACE Identified Restoration Sites



Opportunities to incorporate resiliency into recreation and restoration plans

## A. Bulkhead Raising

\$15M-\$38M

## B. Somerville Basin

\$5.5M-\$9M

- Ecological Restoration
- Elevate NYCDPR proposed bayside trail to create berm

## C. Little Bay

\$5.5M

- Ecological Restoration
- Elevate NYCDPR proposed bayside trail to create berm

## D. Mott Basin

\$7.5M-\$10M

- Ecological Restoration
- Elevate NYCDPR proposed bayside trail to create berm

## E. Thursby Basin Pk

\$30,000 per bioswale

- Construct bioswales to improve drainage issues

## Considerations:

- Provides localized protection measures that do not protect against the 100-year storm
- NY Rising would only partially fund this initiative; additional funding would be required
- Coordination with NYCDPR and USACE required
- Permitting from multiple city agencies required



# Expand Relief Centers & Emergency Preparedness



## Priority and Featured Projects

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- F. Create Relief/Communication Hub**
- G. Create Relief Center Satellites**
- H. Strengthen Addabbo Health Center**
- I. Co-Fund Evacuation Route Study**

## Other Projects and Policy Recommendations

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- Implement evacuation plans from Five Town evacuation study
- Support emergency service providers, especially volunteer ambulance
- Create school continuity plan

