



**ENGAGING STUDENTS AND TEACHERS IN
BUILDING ECOLOGICAL SOLUTIONS TO COASTAL COMMUNITY HAZARDS (BESCCH)**

**Project Site and Scenario: Spring Lake
Shore Road Living Shoreline Project**

Location: Shore Road between 6th Avenue and Central Avenue
Spring Lake, New Jersey
Monmouth County

Habitat Type: Tidal wetlands

Physical Description of Site: The area of the project is approximately 900 linear feet by varying depths from 100 - 180 feet. The site is currently mowed turf with a few shrubs and trees, with Phragmites along the waters' edge.

GPS Coordinates: Center of Site:
Latitude 40°80'31.2000"
Longitude -074°02'09.6000"

Goals for Site: The goals for this site include:

- Creating a vegetated embankment along Wreck Pond shoreline that helps with shoreline stabilization;
- Creating or restoring habitat;
- Reducing or managing tidal flood damage;
- Conducting public education and outreach (about the site); and
- Strengthening or increasing resiliency for the upland area beyond the site.

Your Design Challenge: To create a plan with ecological engineering design elements that addresses the goals for the site.

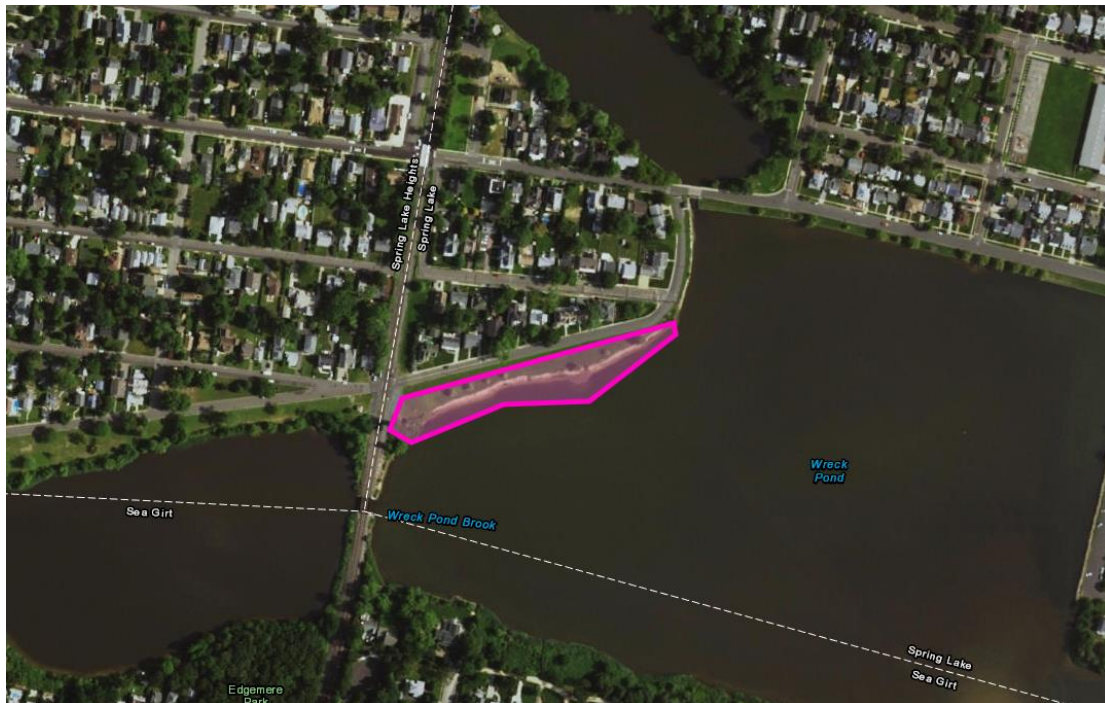
Your Plan Should Include:

1. What are your solution(s) for stabilizing the shoreline and reducing flooding (against future superstorms, high tides and high winds?) Why did you select these?
2. What are your solution(s) for creating and maintaining shoreline habitat? What plants, animals and ecological conditions will you create and/or consider? Why?
3. What structural features, if any, will you put into place to protect the upland area where human activities are being conducted? Where will these structural features be placed, and why?
4. What types of ecological monitoring practices will you use to study the site (over time) and determine if your resiliency solutions were successful and effective? Why would you use each of these practices?

**Photographs: Spring Lake
Shore Road Living Shoreline Project**



Existing conditions at the site



Aerial photograph/map of the site