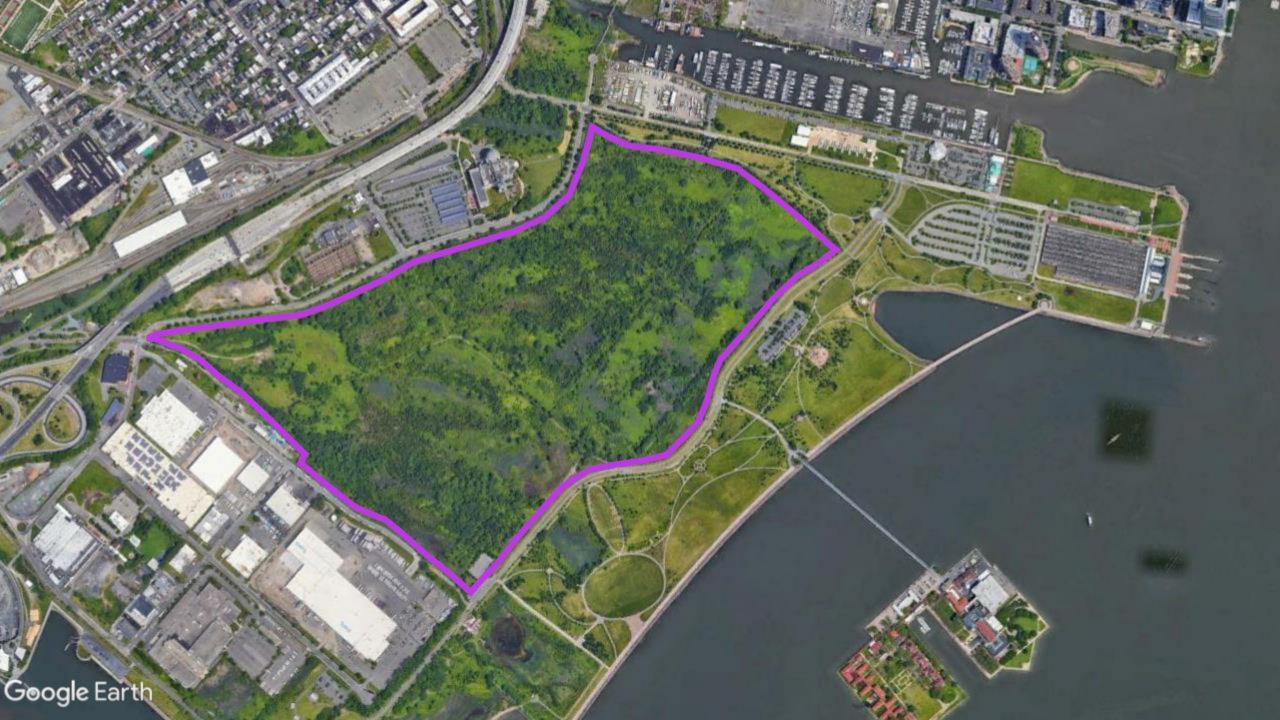


OFFICE OF NATURAL RESOURCE RESTORATION
DIVISION OF PARKS AND FORESTRY

## LIBERTY State Park **Habitat Restoration Breakout Session February 4, 2021**



### **Ecological Restoration**



#### **Tidal Wetlands**

50 Acres

#### **Non-tidal Wetlands**

27 Acres

#### **Uplands**

133 Acres

#### **Parking & Amenities**

24 Acres

### Tidal Wetlands Environmental Benefits



Recreational Wildlife Viewing Opportunities



Support Recreational and Commercially Valuable Fish

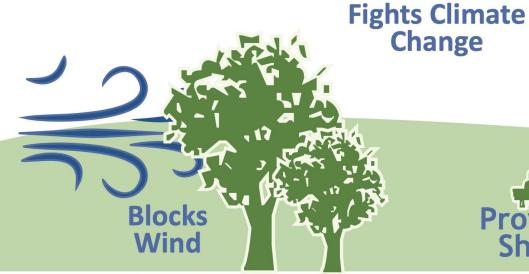
Dissipate Wave Energy and Reduce Erosion

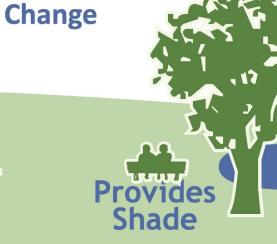


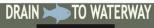
### **Urban Forest** Environmental Benefits









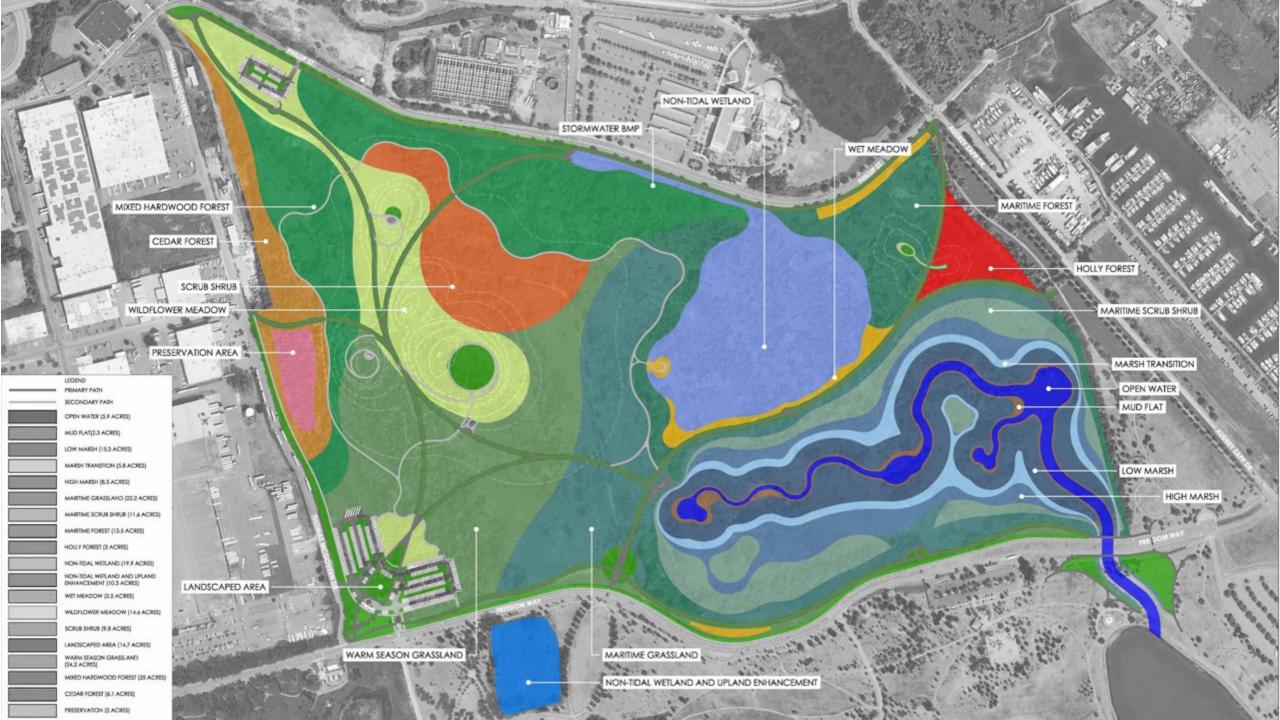


**Reduces Storm Water Runoff** 



Filters Air and **Water Pollution** 









Larval fish habitat

Substrate and habitat for invertebrates

Foraging habitat

Nesting habitat





Wet meadow

**Emergent wetland** 





### Non-tidal Wetlands

Emergent and shallow open water habitats tussock sedge, wool grass, rice cut grass, joepye weed

Scrub shrub wetland habitats swamp rose, northern arrowwood, buttonbush

















### **Upland habitats**

#### Salt tolerant communities

Maritime forest: maples, oaks, bayberry, groundsel bush

Holly forest: American holly, pitch pine, serviceberry

Maritime grasslands: winter bent grass, big bluestem, little bluestem, seabeach evening primrose









### **Upland habitats**

Warm season grassland
Virginia wild rye, switchgrass, grassleaved goldenrod

Wildflower meadows
Purple coneflower, milkweed, wild bergomont







### **Upland habitats**

Scrub shrub

Northern arrowwood, grey dogwood, black berry

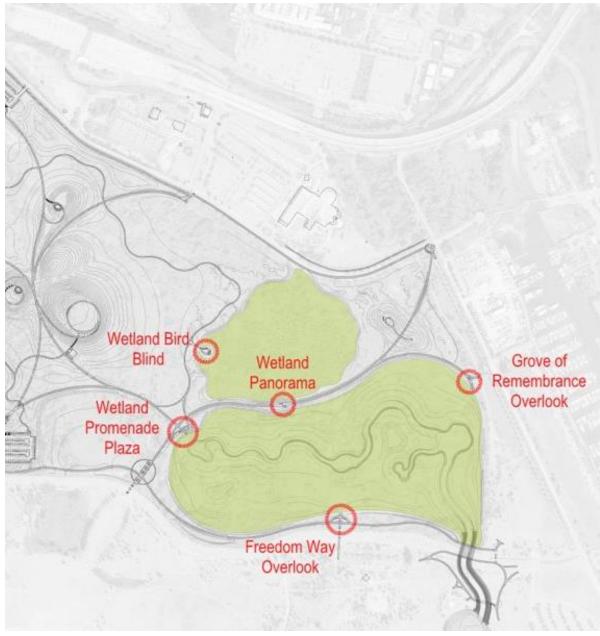
Mixed hardwood and Cedar forest Red cedar, oaks, red maple, maple leaved viburnum











### Monitoring & Maintenance

#### **Immediate**

Contracts include measurable success criteria and require replacement of plants that do not survive in the first year

#### **Short-term**

Permits and Mitigation Council require 5 years of monitoring and corrective action in the event plantings are not successful

#### Long-term

Eventually maintenance shifts to the Park.

Potential opportunities for citizen science, community involvement, education and training opportunities.

# Thank you

Submit suggestions, comments, or questions to:

Ispinterior@dep.nj.gov





