

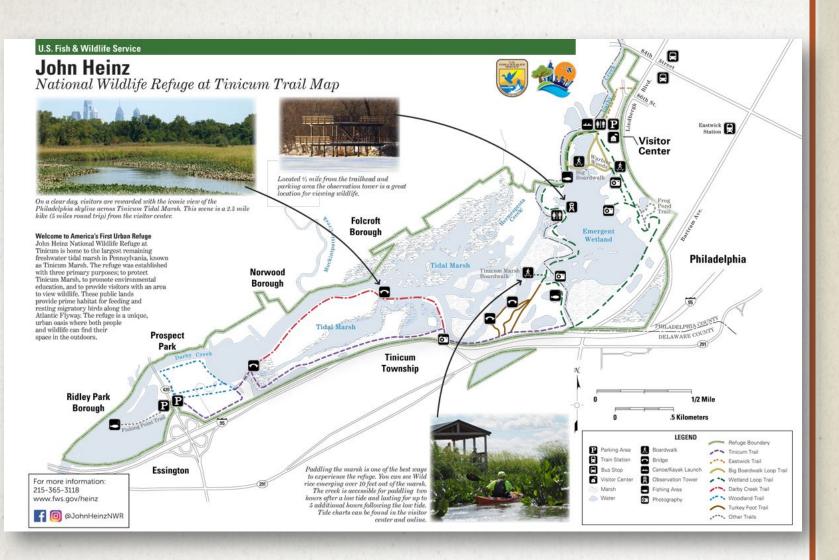




HABITAT RESTORATION AND COMMUNITY CONNECTIONS







U.S. Fish & Wildlife Service

JOHN HEINZ NWR OVERVIEW

- Established in 1972
 - 1. Protect the largest remaining freshwater tidal marsh in PA 350 acres (~1000 acres)
 - 2. Provide wildlife dependent recreation opportunities Provide environmental education.
 - 3. Provide environmental education.





URBAN PROGRAM – EDUCATE, ENGAGE, CONNECT









ACCESSIBLE WATERWAYS

FISHING, KAYAKING...











ACCESSIBLE WATERWAYS

MARSH EDUCATION AND MARSH CLEAN UPS









HIGHLIGHTED REFUGE SPECIES

- USFWS At-Risk Species
 - Tidewater Mucket
 - Green Floater
 - Brook Floater
 - Yellow Lampmussel
- State Listed Species
 - Southern Leopard Frog
 - Northern Red Bellied Cooter













U.S. Fish & Wildlife Service

FLOODING AND HABITAT CHALLENGES





MANAGEMENT CHALLENGES

TRASH, INVASIVE SPECIES, FLOODING, SEA LEVEL RISE, & CLIMATE CHANGE







HABITAT MANAGEMENT GOALS

MORE RESILIENT HABITAT FOR WILDLIFE AND PEOPLE





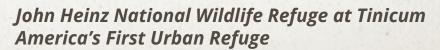
















U.S. Fish & Wildlife Service

ATHOS

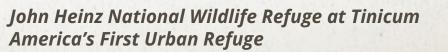
- Increase tidal inundation
- Dredge, spoil island
- 55 acres
- Completion likely 2022/2023







U.S. Fish & Wildlife Service







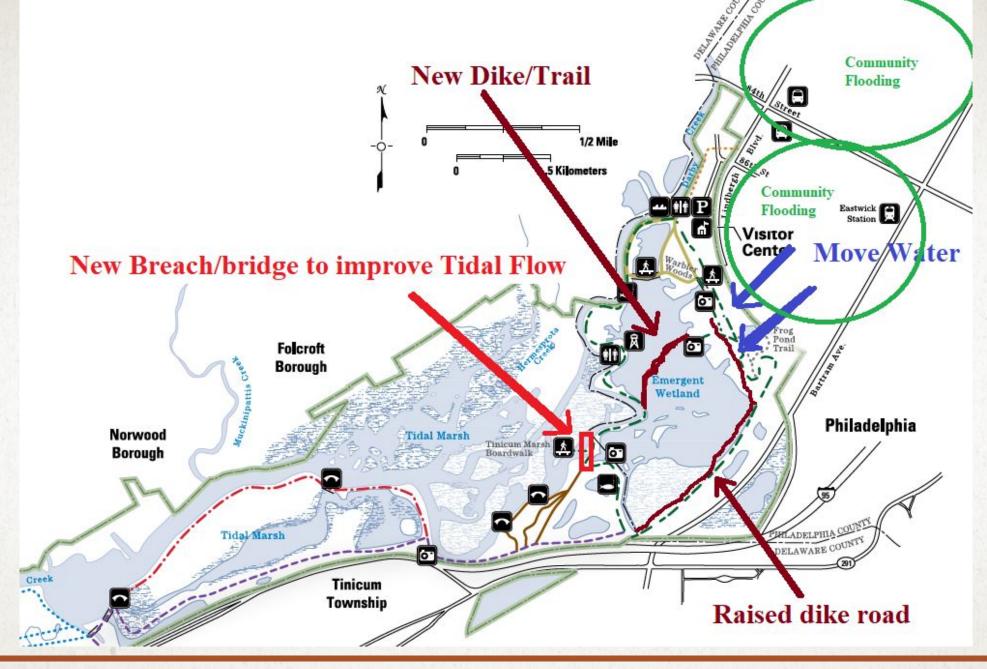
U.S. Fish & Wildlife Service

IMPOUNDMENT RESTORATION

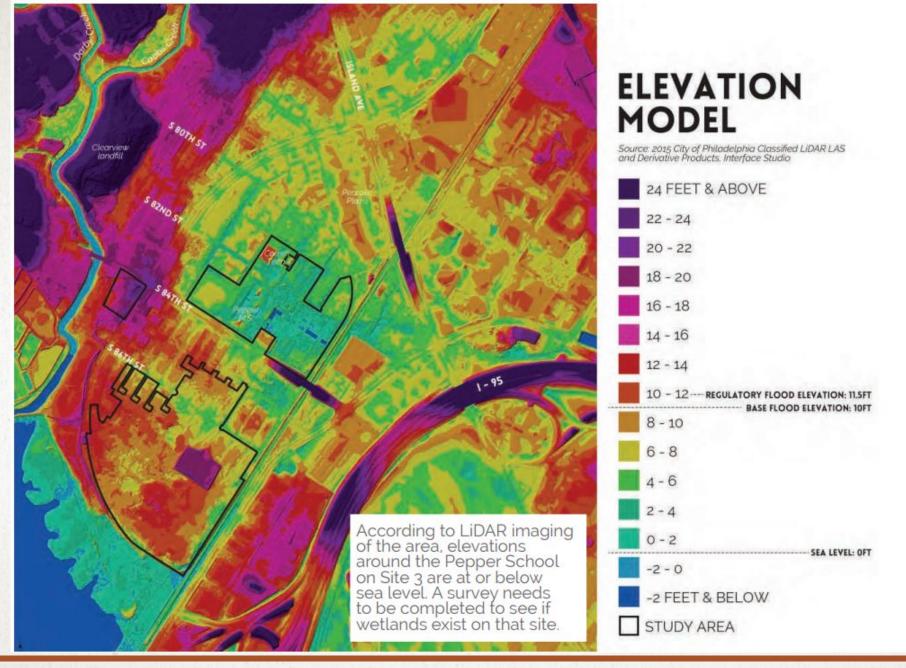
- Pump Project with Ducks Unlimited
- Restore part of 145-acre impoundment to tidal marsh
- Increase flood resiliency
- Restores natural hydrology









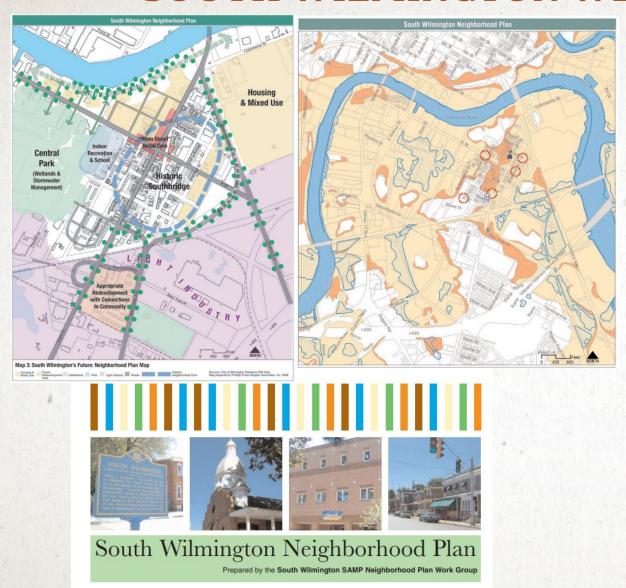






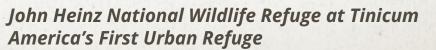


SOUTH WILMINGTON WETLAND PROJECT









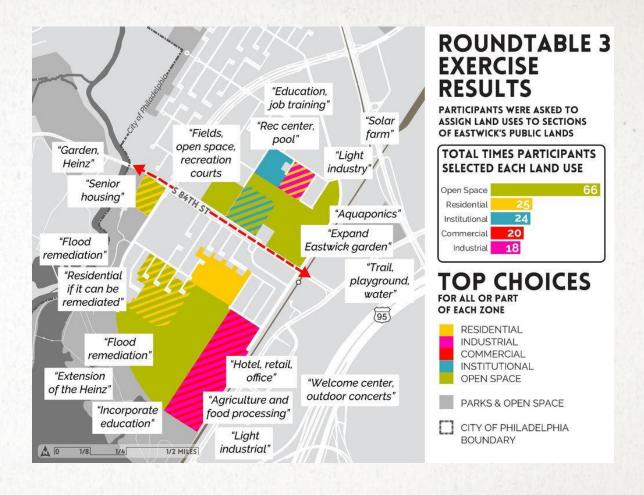




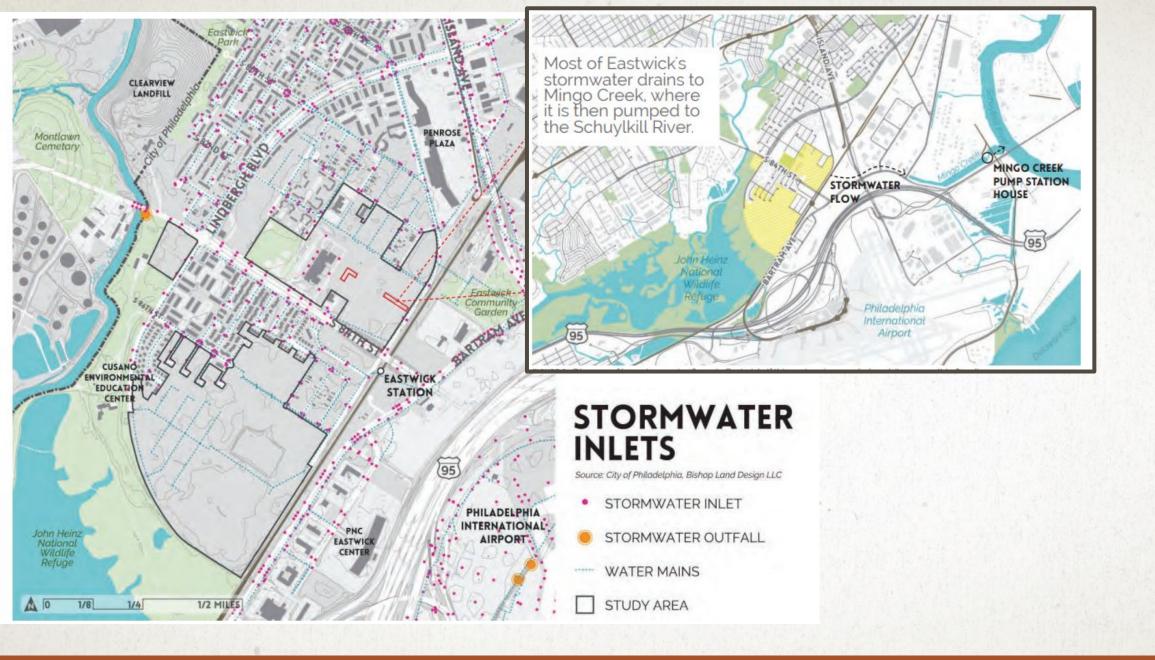
Planning for an inclusive and resilient future in Eastwick

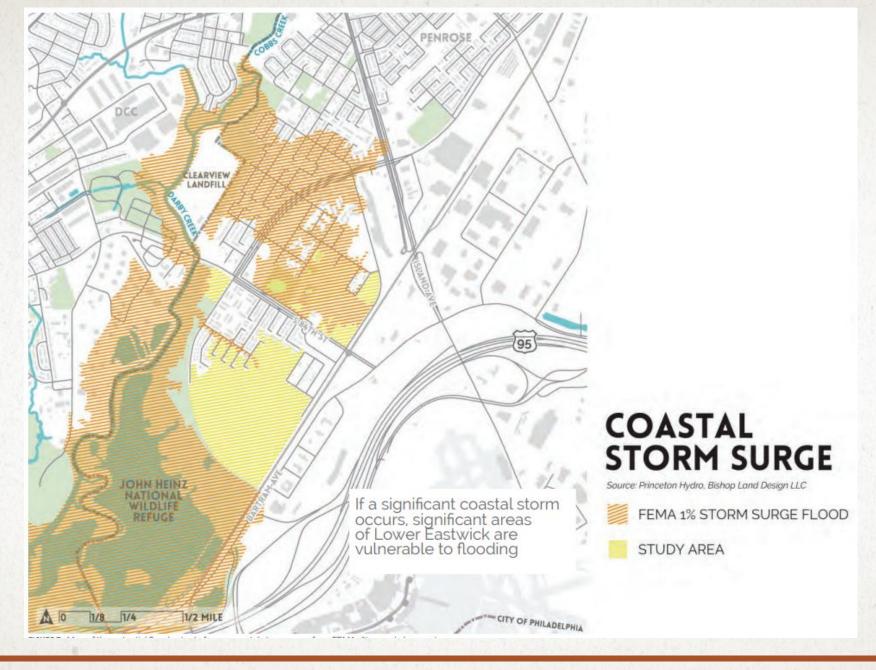
The community's goals for Eastwick are that future development should:

- > Honor Eastwick's rich and complex history
- > Involve the community and respect its neighbors
- > Cultivate a safe, stable, and healthy neighborhood
- > Work to heal the environment (and not make any of the issues worse)
- > Celebrate Eastwick's natural setting
- > Provide sustainable access to opportunity and nurture our youth
- > Build community ties and foster diversity

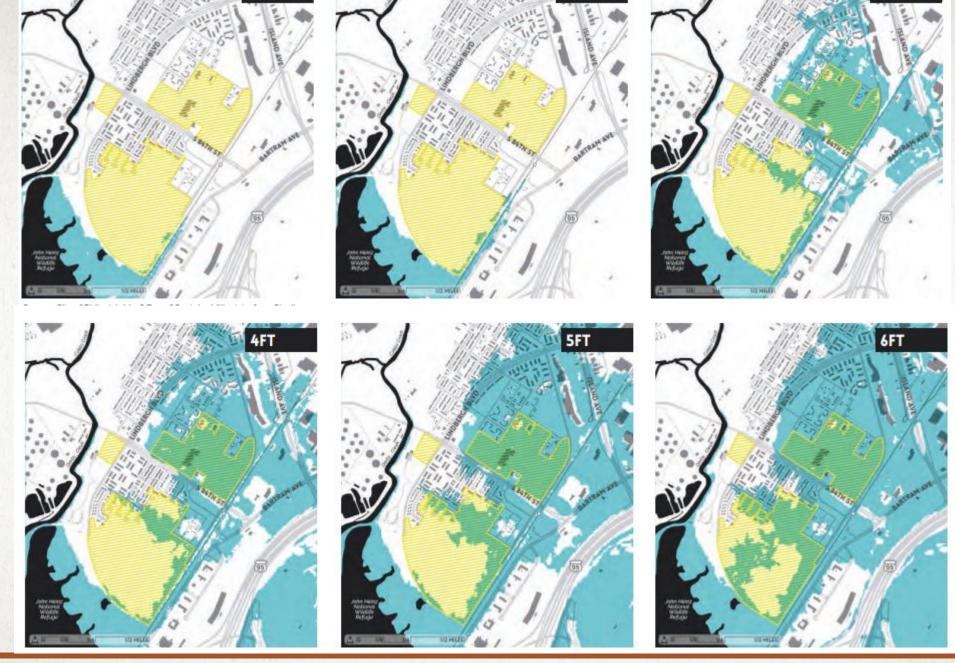








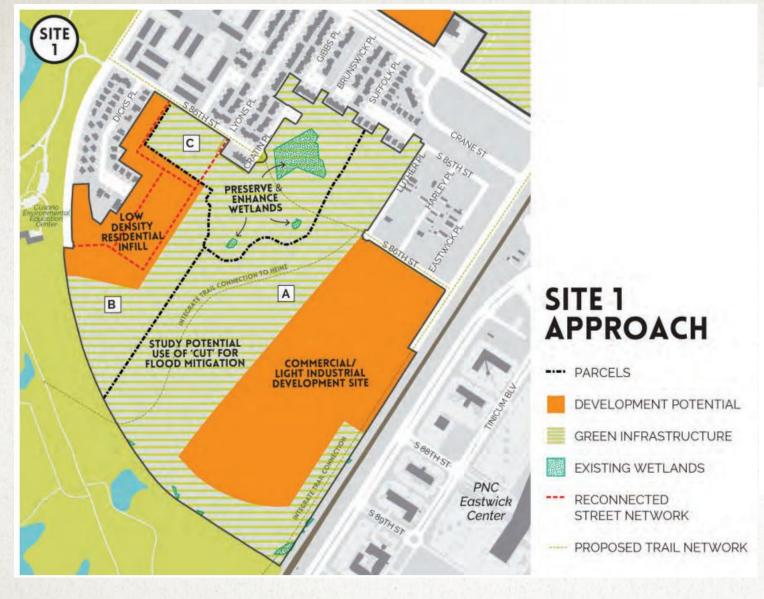




U.S. Fish & Wildlife Service

John Heinz National Wildlife Refuge at Tinicum America's First Urban Refuge









Source: Map Collection, Free Library of Philadelphia

QUESTIONS?



