



Photo Credit: Lisa Wool



Photo Credit: Jessie Buckner



Photo Credit: Shaun Bailey,

Revising the Comprehensive Conservation & Management Plan for the Delaware Estuary

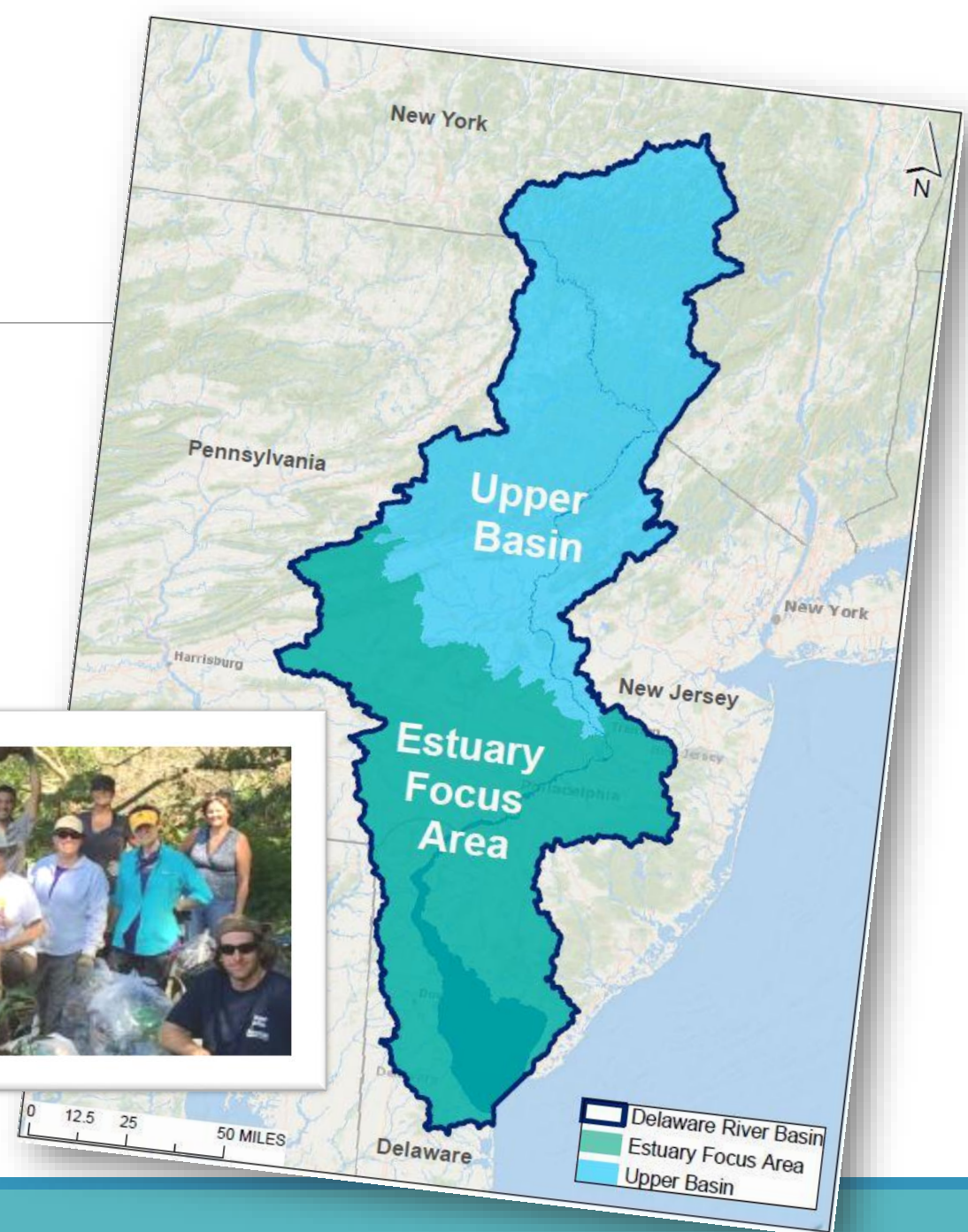


WHERE?

THE DELAWARE RIVER WATERSHED
PA, NJ, DE, AND NY

PDE is watershed-based,
Estuary focused

- *Over 6,000 square miles*
- *6.7 million people*
- *7% of PA, 26% of NJ,
50% of DE*



WHO?

THE PARTNERSHIP FOR THE DELAWARE ESTUARY

VISION

Working together for clean water, thriving fish and wildlife, and abundant recreational activities in and around the tidal Delaware River and Bay to support people, communities, and a robust economy.

CORE PARTNERS

- Delaware River Basin Commission
- EPA Regions 2 and 3
- DE Dept. of Nat. Resources and Enviro. Control
- NJ Dept. of Enviro. Protection
- PA Dept. of Enviro. Protection
- Philadelphia Water



WHAT?

THE COMPREHENSIVE CONSERVATION MANGEMENT PLAN

- Long-term plan that contains actions to address water quality and living resource challenges and priorities.
- Last updated in 1996
- A plan for all partners working in the region

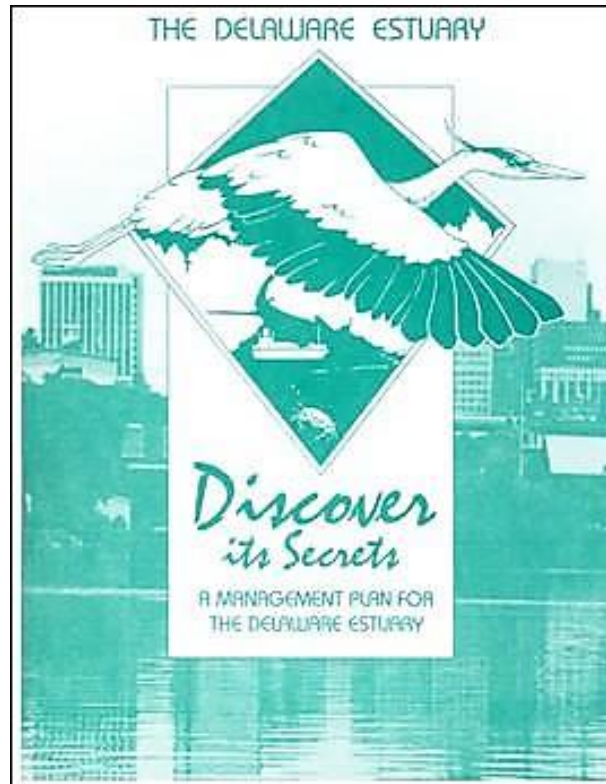


Photo Credit: Stephanie Rindosh, Philadelphia Rain Garden

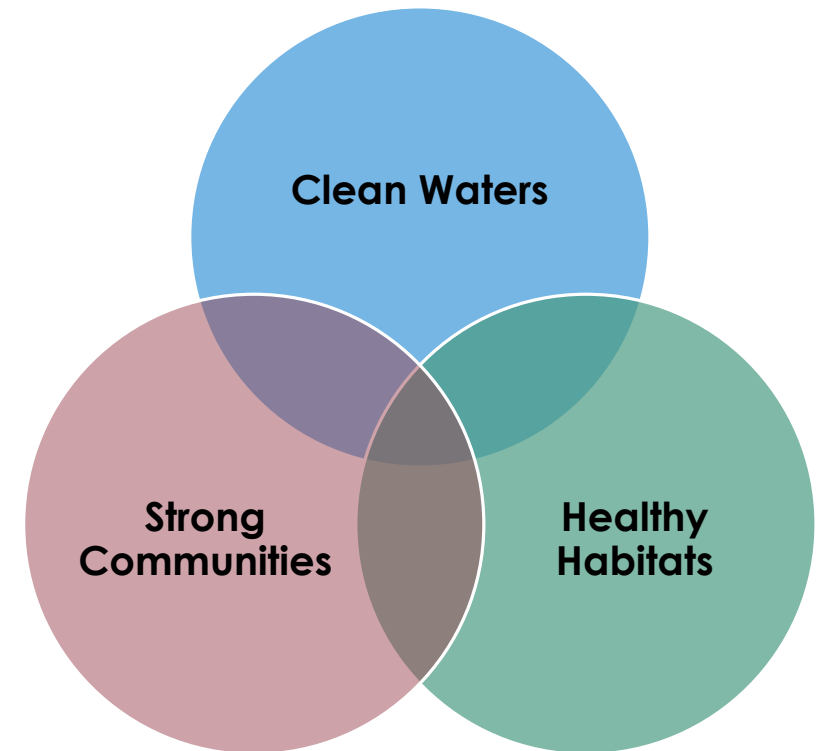
WHAT?

ORIGINAL PLAN

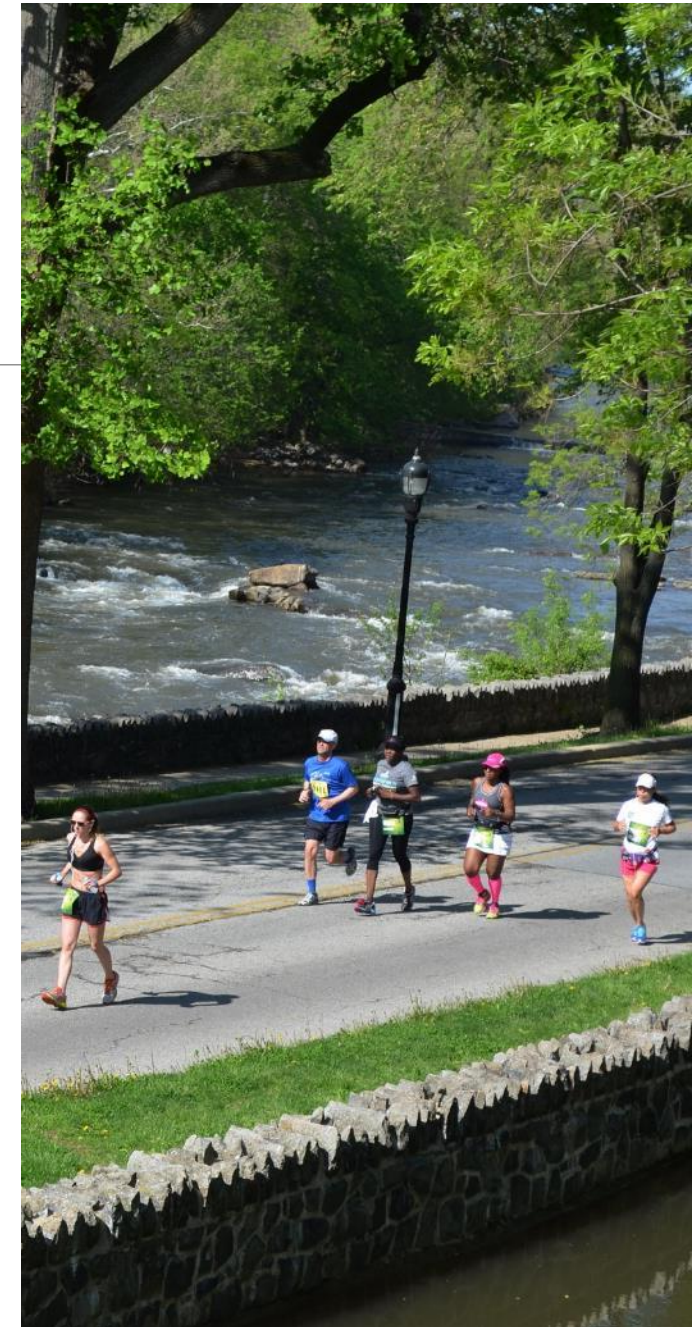
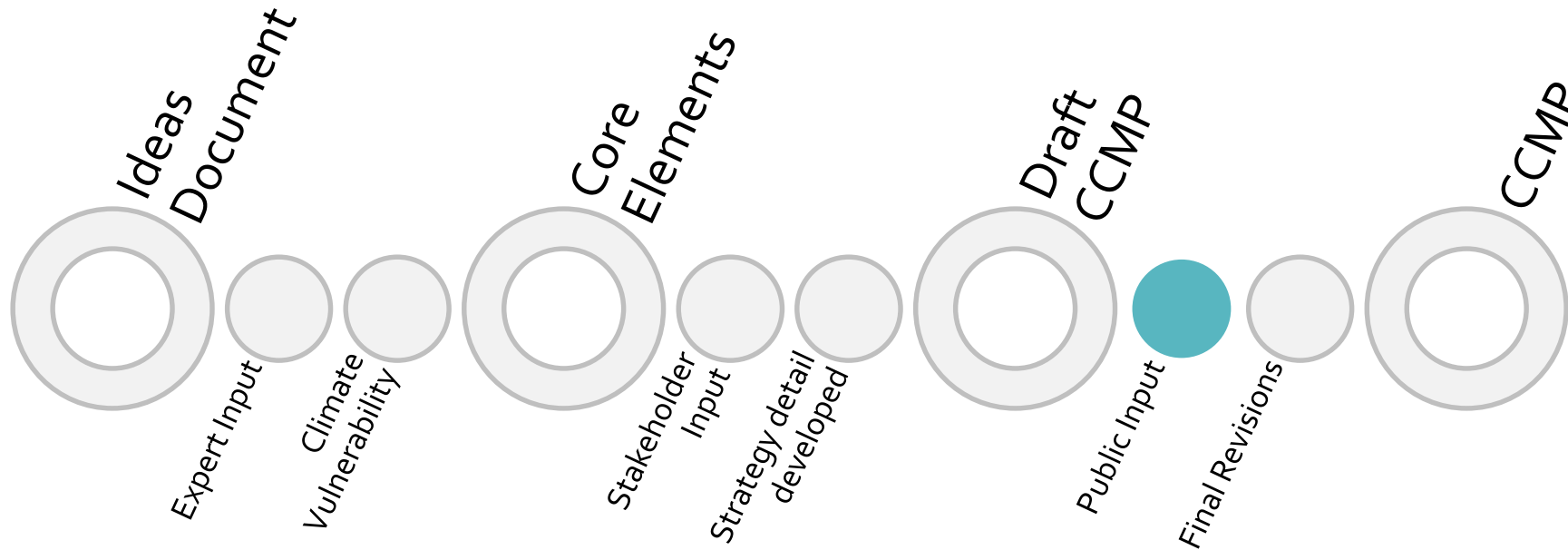
- ❑ Land Use Management
- ❑ Toxics
- ❑ Water Use Management
- ❑ Education & Involvement
- ❑ Habitat & Living Resources

REVISED PLAN

- ❑ **Clean Waters**
 - ❑ Nutrient Pollution
 - ❑ Other Pollutants
 - ❑ Sustain Flow
- ❑ **Strong Communities**
 - ❑ Resilience and Access
 - ❑ Engagement
- ❑ **Healthy Habitats**
 - ❑ Wetlands
 - ❑ Forests
 - ❑ Fish & Shellfish



WHAT'S THE PROCESS?



CLEAN WATERS

W1: Reduce Nutrient Pollution and its Impacts

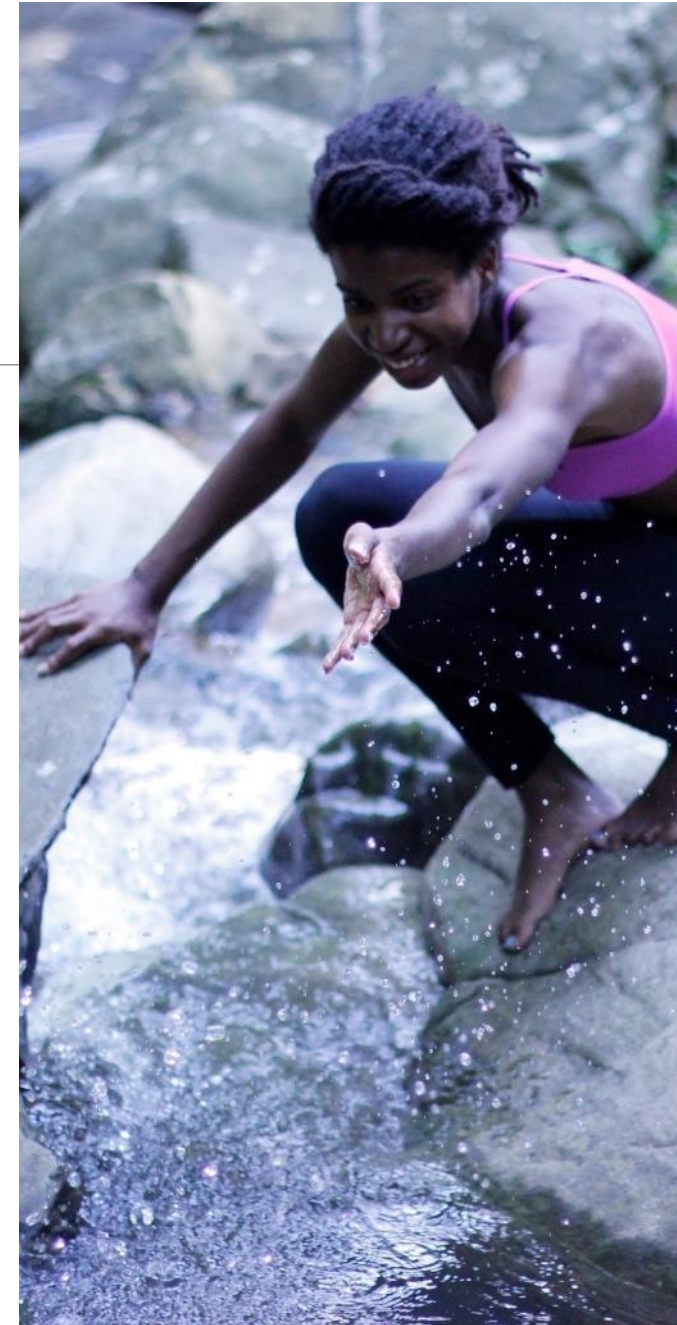
Strategy	Description
W 1.1	Promote infrastructure-related improvements to reduce pollutants from point-sources
W 1.2	Support innovative planning and design practices to reduce nutrients from stormwater and agricultural runoff through promotion, education, and implementation
W 1.3	Promote land use planning by local municipalities that prevents, reduces, and/or more efficiently manages stormwater runoff to prevent pollution
W 1.4	Provide outreach and information to property owners to assist in reducing non-point sources of nutrients
W 1.5	Conduct research and monitoring on nutrient impacts in the Estuary for biological and ecological endpoints



CLEAN WATERS

W2: Reduce Other Pollutants and their Impacts

Strategy	Description
W 2.1	Conduct outreach and technical assistance programs to reduce non-point sources of contaminants
W 2.2	Promote the identification, cleanup, and revitalization of contaminated sites
W 2.3	Support adaptive management and reporting of pollution reductions
W 2.4	Coordinate and promote research and monitoring efforts (chemical, physical, biological) associated with the causes of water quality impacts throughout the Delaware Estuary
W 2.5	Conduct and coordinate (where appropriate) education, research, monitoring, and communication about fish and shellfish consumption to protect human health
W 2.6	Improve, sustain, and enhance spill communication and response with Delaware Estuary partners



CLEAN WATERS

W₃: Sustain Flow for Drinking Water and Ecosystems

Strategy	Description
W 3.1	Inform and collaborate with decision makers and water resource managers to ensure that main stem Delaware River flow meets the needs of the Delaware Estuary
W 3.2	Conduct research and monitoring on water quality and habitat requirements of estuary-dependent species
W 3.3	Promote water conservation and efficiency by utilities
W 3.4	Provide outreach and technical assistance to promote water conservation and infiltration by residential and commercial users and communities
W 3.5	Promote and assist in implementing Regional Sediment Management



STRONG COMMUNITIES

C1: Increase Community Resilience and Access

Strategy	Description
C 1.1	Restore working waterfronts
C 1.2	Provide tools and technical assistance to waterfront communities & partners to improve economic and environmental resilience
C 1.3	Protect and enhance natural areas and public access
C 1.4	Connect people to natural areas and waterfronts in the Delaware Estuary

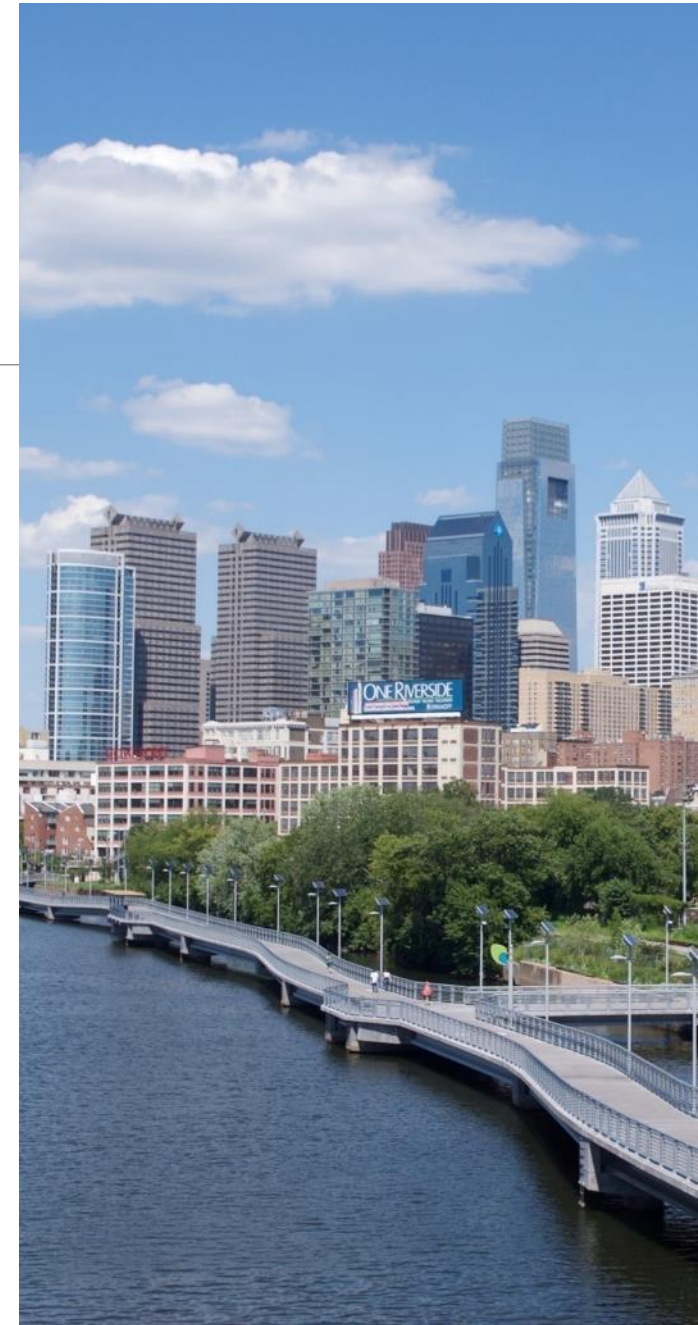


Photo credit: Joe Hengel, Philadelphia, PA

STRONG COMMUNITIES

C2: Improve Public Awareness and Stakeholder Engagement

Strategy	Description
C 2.1	Through marketing and communications, build awareness and brand for the Delaware River and Bay
C 2.2	Utilize events to increase stewardship and engage new people
C 2.3	Develop and promote programs that engage teachers and schools in stewardship of the Estuary
C 2.4	Develop and promote programs with local communities and partners that foster volunteer stewardship and experiential learning
C 2.5	Publish and share outreach materials and scientific results
C 2.6	Engage key stakeholders to coordinate science and management of the Estuary
C 2.7	Monitor, develop, and promote opportunities to assess impacts of outreach



Photo Credit: PDE, Highmark Walk

HEALTHY HABITATS

H1: Prevent Wetland Loss

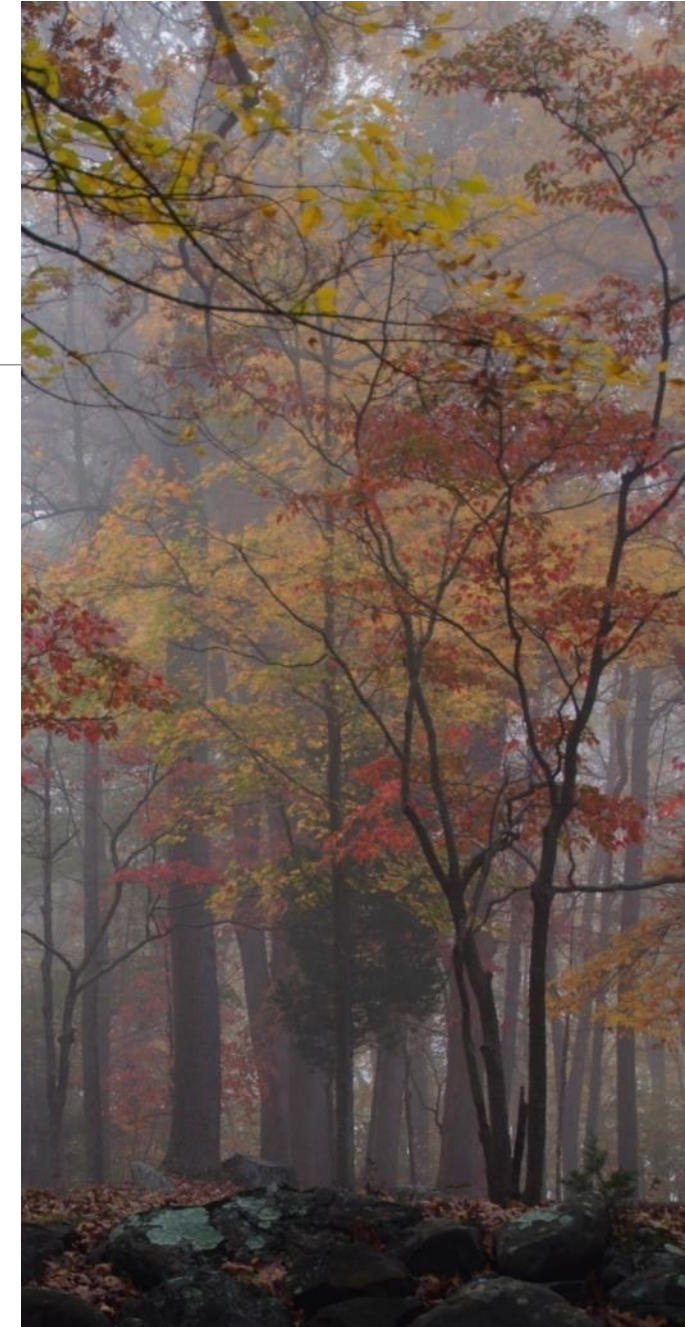
Strategy	Description
H 1.1	Establish clear baselines for tidal wetland conditions and track changes over time
H 1.2	Restore, enhance, and manage wetlands for maximum health and resilience
H 1.3	Develop and implement natural and nature-based techniques to stabilize and restore eroding shorelines and build and protect wetlands, infrastructure, and other key resources
H 1.4	Protect, enhance, and improve non-tidal wetlands



HEALTHY HABITATS

H2: Stem Forest Loss

Strategy	Description
H 2.1	Inventory, map, and increase connectedness and resilience of forests
H 2.2	Promote stewardship practices by local partners for the health and sustainability of forests
H 2.3	Protect and manage high value and threatened forests



HEALTHY HABITATS

H3: Increase and Improve Fish and Shellfish Habitat

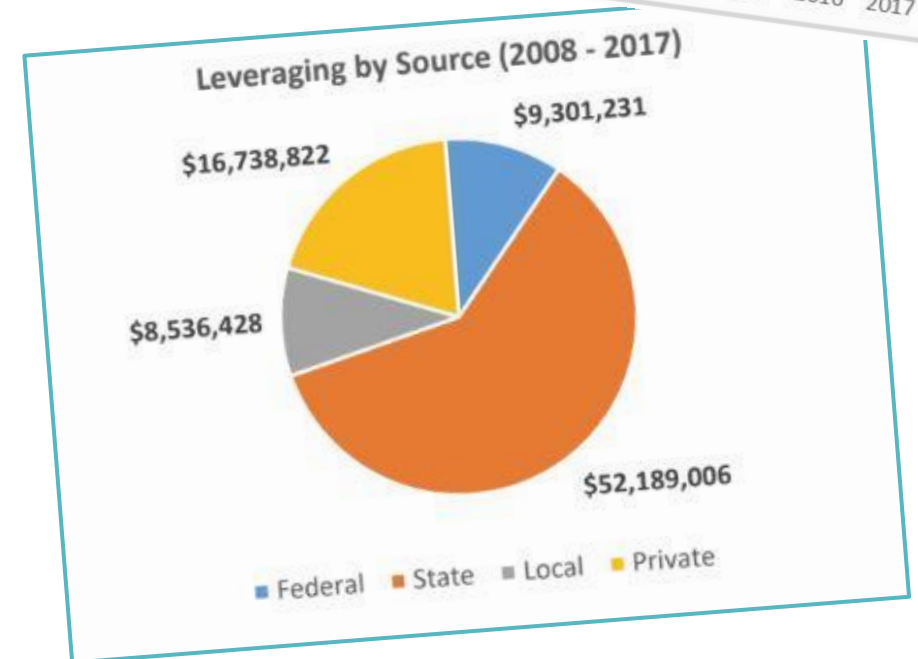
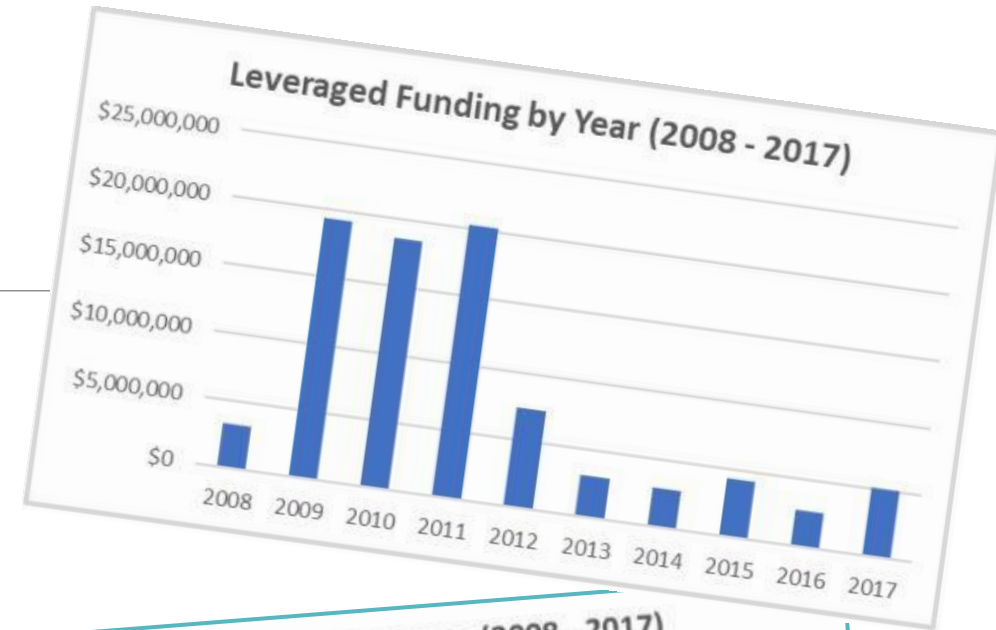
Strategy	Description
H 3.1	Inventory, map, protect, and enhance habitat critical for fish and crabs
H 3.2	Restore oyster beds and productivity in and around the Delaware Bay
H 3.3	Inventory, restore, and manage mussel populations
H 3.4	Protect and restore horseshoe crabs and their habitat
H 3.5	Manage and improve populations of rare, endangered, or otherwise important native species in the Delaware Estuary



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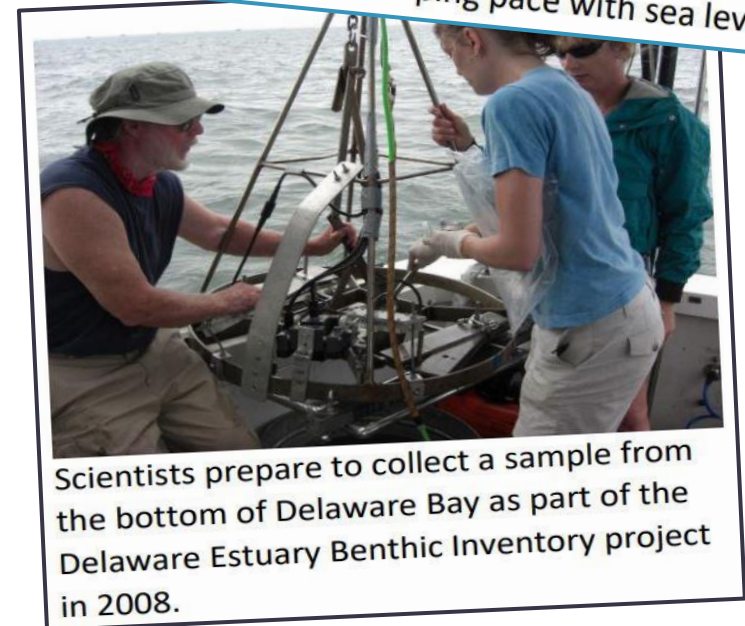
FINANCE STRATEGY

- Current Funding and Support
 - EPA, match for National Estuary Program funds, states, private-sector, other core partners and major initiatives across the watershed
- Resource Needs
 - Dedicated and reliable funding streams
 - Additional resources to help engage people in our Estuary
- Key Activities & Priorities
 - Sustaining, growing, and diversifying streams of funding
 - Leading and participating in collaborative efforts to help develop and increase funding sources



MONITORING APPROACH

- How We Will Measure Success
 - *Outputs*
 - *Outcomes*
 - *Impacts*
- How We Will Track Progress
 - National Estuary Program Annual Work Plan
 - Annual Habitat and Leveraging Data
 - Regional Monitoring and State of the Estuary Reporting
 - Future Plans for Monitoring



WE NEED YOUR HELP!

1. Review the document on **DelawareEstuary.org/our-plan**. It contains proposed strategies to focus on over the next 10 years
2. Send your comments to CCMP@DelawareEstuary.org or through the online form posted on **DelawareEstuary.org/our-plan** by Friday, July 20th
3. PDE will respond to written comments submitted by the deadline in a document posted online

Webinar rescheduled!!!



Thank you!

Jennifer Adkins, Executive Director

Questions about the CCMP commenting process? Contact Emily Baumbach at: Ebaumbach@DelawareEstuary.org

