

# HABITAT TRACKER UPDATES

April 26, 2023

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# OUTCOMES

- Wetlands Outcome
  - Continually increase the capacity of wetlands to provide water quality and habitat benefits throughout the watershed. Create or re-establish 85,000 acres of tidal and non-tidal wetlands and enhance the function of an additional 150,000 acres of degraded wetlands by 2025. These activities may occur in any land use (including urban) but primarily occur in agricultural or natural landscapes.
- Black Ducks Outcome
  - By 2025, restore, enhance and preserve wetland habitats that support a wintering population of 100,000 black ducks, a species representative of the health of tidal marshes across the watershed. Refine population targets through 2025 based on best available science.



# 2014 WATERSHED AGREEMENT AND 2025 GOALS

## Chesapeake Bay TMDL and Black Duck Outcome deadline is 2025

### GOALS & OUTCOMES

#### VITAL HABITATS

Increasing needs for land and resources have resulted in fragmentation and degradation of many habitats across the watershed while also challenging the health of many Bay watershed species. Conserving healthy habitats and restoring the connectivity and function of degraded habitats is essential to the long-term resilience and sustainability of the ecosystem and the region's quality of life.



**GOAL:** Restore, enhance and protect a network of land and water habitats to support fish and wildlife, and to afford other public benefits, including water quality, recreational uses and scenic value across the watershed.

#### Wetlands Outcome



Continually increase the capacity of wetlands to provide water quality and habitat benefits throughout the watershed. Create or re-establish 85,000 acres of tidal and non-tidal wetlands and enhance the function of an additional 150,000 acres of degraded wetlands by 2025. These activities may occur in any land use (including urban) but primarily occur in agricultural or natural landscapes.

#### Black Duck



By 2025, restore, enhance and preserve wetland habitats that support a wintering population of 100,000 black ducks, a species representative of the health of tidal marshes across the watershed. Refine population targets through 2025 based on best available science.

#### Stream Health Outcome



Continually improve stream health and function throughout the watershed. Improve health and function of ten percent of stream miles above the 2008 baseline for the Chesapeake Bay watershed.

#### Brook Trout



Restore and sustain naturally reproducing brook trout populations in Chesapeake headwater streams with an eight percent increase in occupied habitat by 2025.

Signatories affirmed their commitment to support the goals of this agreement and to work cooperatively in its implementation

### AFFIRMATION

As Chesapeake Bay Program Partners, we recognize the need to accelerate implementation of actions necessary to achieve the Goals and Outcomes outlined herein and realize our shared Vision of a healthy and vibrant Chesapeake Bay watershed.

As Chesapeake Bay Program Partners, we acknowledge that this Agreement is voluntary and subject to the availability of appropriated funds. This Agreement is not a contract or an assistance agreement. We also understand that this Agreement does not pre-empt, supersede or override any other law or regulation applicable to each signatory.

We, the undersigned members of the Chesapeake Executive Council, re-affirm our commitment to support the Goals of this Agreement and to work cooperatively in its implementation. We agree to work both independently and collaboratively toward the Goals and Outcomes of this Agreement and to implement specific Management Strategies to achieve them. Everyone in this great watershed is invited to join with the Partnership, uniting as a region and embracing the actions that will lead to success.

For the Chesapeake Bay Commission



*Ronald E. Miller*

For the State of Delaware



*Jeff Markley*

For the District of Columbia



*Vernice S. Gray*

For the State of Maryland



*Anthony S. Hall*

For the Commonwealth of Pennsylvania



*Tom Corbett*

For the State of New York



*Andrew Cuomo*

For the Commonwealth of Virginia



*Robert F. Williams*

For the State of West Virginia



*Earl Ray Tomblin*

For the United States of America



*John F. Kennedy*

on behalf of the Federal Government and the Federal Leadership Committee for the Chesapeake Bay  
U.S. Environmental Protection Agency  
U.S. Department of Agriculture  
U.S. Department of Commerce  
U.S. Department of Defense  
U.S. Department of Homeland Security  
U.S. Department of the Interior  
U.S. Department of Transportation



Chesapeake Bay Program  
Science. Restoration. Partnership.

# HABITAT TRACKER

- Habitat Tracker is a data management system to collect and organize data related to the habitat goals and outcomes
- Information can be aggregated and made available to show progress toward the Wetland and Black Duck Outcomes, and how the projects relate to the other 29 Outcomes
- [habitat-tracker.net](https://habitat-tracker.net)

GOALS	OUTCOMES
Sustainable Fisheries Goal	Blue Crab Abundance Outcome
	Blue Crab Management Outcome
	Oyster Outcome
	Forage Fish Outcome
	Fish Habitat Outcome
Vital Habitats Goal	Wetlands Outcome
	Black Duck
	Stream Health Outcome
	Brook Trout
	Fish Passage Outcome
	Submerged Aquatic Vegetation (SAV) Outcome
	Forest Buffer Outcome
	Tree Canopy Outcome
Water Quality Goal	2017 Watershed Implementation Plans (WIP) Outcome
	2025 WIP Outcome
	Water Quality Standards Attainment and Monitoring Outcome
Toxic Contaminants Goal	Toxic Contaminants Research Outcome
	Toxic Contaminants Policy and Prevention Outcome
Healthy Watersheds Goal	Healthy Watersheds Outcome
Stewardship Goal	Citizen Stewardship Outcome
	Local Leadership Outcome
	Diversity Outcome
Land Conservation Goal	Protected Lands Outcome
	Land Use Methods and Metrics Development Outcome
	Land Use Options Evaluation Outcome
Public Access Goal	Public Access Site Development Outcome
Environmental Literacy Goal	Student Outcome
	Sustainable Schools Outcome
	Environmental Literacy Planning Outcome
Climate Resiliency Goal	Monitoring and Assessment Outcome
	Adaptation Outcome



# WETLAND AND BLACK DUCK ACRES REPORT

- Projects that have any positive impact on Black Ducks are summarized in the Wetland and Black Duck Acres Report
- Wetland type and acreage is reported, as well as the pre-and post project land use
- If presence of Black Ducks have been reported, this is noted in the 'Presence of Black Duck' column
- Note:** We are capturing the entire acreage of projects that impact wetlands, not just the new acres of wetlands  
Ex. See rows where pre- and post- project land use is 'Wetlands'

Geography	Construction End Year	Wetland Type	Presence Of Black Duck	Pre Project Land Use	Post Project Land Use	Acres
DE	2020	Non-Tidal	NO	Agriculture	Natural	70.000
DE	2021		NO	Agriculture	Natural	6.000
MD	2011	Non-Tidal	NO	Wetlands	Wetlands	2.400
MD	2012	Non-Tidal	NO	Forest	Wetlands	1501.000
MD	2012	Non-Tidal	NO	Not Available	Wetlands	558.990
MD	2012	Non-Tidal	NO	Open Space	Wetlands	143.800
MD	2012	Non-Tidal	NO	Wetlands	Wetlands	1921.000
MD	2012	Tidal	NO	Not Available	Wetlands	27003.399
MD	2012	Tidal	NO	Wetlands	Wetlands	27000.000
MD	2013	Non-Tidal	NO	Open Space	Wetlands	145.900
MD	2013	Non-Tidal	NO	Water	Wetlands	60.000
MD	2013	Non-Tidal	NO	Wetlands	Wetlands	108.500
MD	2013	Tidal	NO	Water	Wetlands	1776.000
MD	2013	Tidal	NO	Wetlands	Wetlands	1333.000
MD	2014	Non-Tidal	NO	Forest	Wetlands	788.500
MD	2014	Non-Tidal	NO	Not Available	Wetlands	26000.800
MD	2014	Non-Tidal	NO	Open Space	Wetlands	329.900
MD	2014	Non-Tidal	NO	Wetlands	Wetlands	26005.300
MD	2014	Tidal	NO	Forest	Wetlands	25.000
MD	2014	Tidal	NO	Natural	Natural	25.000
MD	2014	Tidal	NO	Not Available	Wetlands	2057.000
MD	2014	Tidal	NO	Wetlands	Wetlands	3418.000
MD	2014		NO	Agriculture	Natural	6.500
MD	2014		NO	Open Space	Wetlands	1.000
MD	2015	Non-Tidal	NO	Forest	Wetlands	550.000
MD	2015	Non-Tidal	NO	Natural	Natural	8.200
MD	2015	Non-Tidal	NO	Not Available	Wetlands	2.000
MD	2015	Non-Tidal	NO	Open Space	Wetlands	46.420
MD	2015	Non-Tidal	NO	Wetlands	Wetlands	1021.700
MD	2015	Tidal	NO	Natural	Natural	275.000
MD	2015	Tidal	NO	Not Available	Wetlands	.310
MD	2015	Tidal	NO	Water	Wetlands	55.110
MD	2015	Tidal	NO	Wetlands	Wetlands	55.110
MD	2015		NO	Agriculture	Natural	38.500
MD	2016	Non-Tidal	NO	Agriculture	Natural	335.000

# ENVIRONMENTAL LITERACY AND PUBLIC ACCESSIBILITY REPORT

Geography	Construction End Year	Environmental Literacy Component	Project Publicly Accessible	Acres
DE	2020	NO	NO	70.000
DE	2021	NO	NO	6.000
MD	2011	NO	NO	2.400
MD	2012	NO	NO	58128.189
MD	2013	NO	NO	3423.400
MD	2014	NO	NO	58657.000
MD	2015	NO	NO	2052.350
MD	2016	NO	NO	2325.390
MD	2017	NO	NO	2449.370
MD	2018	NO	NO	1671.817
MD	2019	NO	NO	2719.910
MD	2020	NO	NO	1530.210
MD	2021	NO	NO	1994.400
MD	2022	NO	NO	241.510
PA	2017	NO	NO	25.000
PA	2019	NO	NO	9.400
PA	2020	NO	NO	38.000
VA	2016	NO	NO	92.000
VA	2016	NO	YES	150.000
VA	2017	NO	YES	73.000
VA	2018	NO	YES	18777.000
VA	2019	NO	YES	1100.000
VA	2020	NO	YES	1602.000
VA	2021	NO	YES	2.500
VA	2022	NO	YES	1629.000
WV	2015	NO	NO	5.000
WV	2018	NO	NO	5.490
WV	2020	NO	NO	32.000

# FEMA FLOOD HAZARD ACRES REPORT

Geography	Construction End Year	FEMA Special Flood Hazard Area	FEMA Flood Exceedance Amonut	Acres
Delaware	2021	Yes	0.02	10
Maryland	2016	Yes	0.02	6

Note that this is example data, not real data.

# PROJECT FUNDERS REPORT

Geography	Primary Funder	Funding Awarded Year	Funding End Year	Project Type	Wetland Type	Projects
MD	National Resources Conservation Service			Enhancement	Non-Tidal	57
MD	Maryland Department of Natural Resources			Restoration	Non-Tidal	48
MD	National Resources Conservation Service			Restoration	Non-Tidal	36
MD	The Nature Conservancy			Restoration	Tidal	25
MD	US Fish and Wildlife Service			Enhancement	Non-Tidal	15
MD	National Resources Conservation Service			Restoration	Tidal	14
MD	Maryland Department of Natural Resources			Creation	Non-Tidal	12
MD	Maryland Department of Natural Resources			Enhancement	Non-Tidal	11
MD	Maryland Department of Natural Resources			Restoration	Tidal	11
MD	Maryland Department of Agriculture			Restoration	Non-Tidal	10
MD	The Nature Conservancy			Enhancement	Non-Tidal	10
MD	Conservation Reserve Enhancement Program			Restoration	Non-Tidal	9
MD	State of Maryland	2019		Restoration		9
MD	Chesapeake Wildlife Heritage			Restoration	Non-Tidal	7
MD	Conservation Reserve Program			Restoration	Non-Tidal	6
MD	Middle Chester River Partnership			Creation	Non-Tidal	6
MD	The Nature Conservancy			Restoration	Non-Tidal	6
MD	US Fish and Wildlife Service			Restoration	Non-Tidal	6
MD	Ducks Unlimited			Restoration	Non-Tidal	5
MD	Farm Service Agency			Restoration	Non-Tidal	5
MD	Harford Soil Conservation District			Restoration	Non-Tidal	5
MD	State of Maryland	2014		Restoration		5
MD	Chesapeake and Atlantic Coastal Bays Trust Fund			Restoration	Non-Tidal	4
MD	Department of Natural Resources			Restoration	Non-Tidal	4
MD	EcoTone			Enhancement	Non-Tidal	4
MD	Harford Soil Conservation District			Enhancement	Non-Tidal	4
MD	National Fish and Wildlife Foundation			Restoration	Non-Tidal	4
MD	US Department of Agriculture			Enhancement	Non-Tidal	4
MD	Agricultural Conservation Easement Program - Wetland Reserve Easement			Enhancement	Non-Tidal	3
MD	Maryland Department of Agriculture			Creation	Non-Tidal	3
MD	Maryland Department of Natural Resources	2015		Enhancement	Non-Tidal	3
MD	Maryland Department of Natural Resources			Enhancement	Tidal	3
MD	Midshore Riverkeeper			Restoration	Non-Tidal	3
MD	National Resources Conservation Service			Creation	Non-Tidal	3
MD	Queen Anne's County			Restoration	Non-Tidal	3



# RTE SPECIES REPORT

Geography	Construction End Year	Acres	Habitat For RTE Plants or Animals	Threatened or Endangered State or Federal Level	Presence of Brook Trout	Presence of Black Duck	At-Risk/Heritage Species (Specify Type)
Delaware	2021	4.5	Yes	Federal	Yes	No	Saltmarsh Sparrow, Chesapeake Logperch
Maryland	2014	2	No		No	Yes	
Maryland	2015	275	No		No	Yes	
Maryland	2016	182	No		Yes	Yes	

# BMP SUMMARY REPORT

Geography	Year Installed	BMP Type	Land Use	Amount	Unit	Recent Inspection Year	NEIEN Credit Duration	Expiration Year
DE	2021	Wetland and Buffer Restoration, Wetland Restoration	Natural	6.000	acres	2021	15	2036
MD	2014	Constructed Wetland and Elevated Mound	Natural	6.500	acres	2014	10	2024
MD	2015	Constructed Wetland and Elevated Mound	Natural	38.500	acres	2015	10	2025
MD	2016	Constructed Wetland and Elevated Mound	Natural	14.500	acres	2016	10	2026
MD	2017	Wetland Rehabilitation	Natural	6.000	acres	2017	15	2032
MD	2017	Constructed Wetland and Elevated Mound	Natural	34.000	acres	2017	10	2027
MD	2020	Wetland Rehabilitation	Natural	7.500	acres	2020	15	2035
MD	2020	Wetland Rehabilitation	Agriculture	7.500	acres	2020	15	2035
MD	2015	Wetland Rehabilitation	Natural	8.200	acres	2015	15	2030
MD	2017	Wetland and Buffer Restoration, Wetland Restoration	Natural	18.000	acres	2017	15	2032
MD	2020	Constructed Wetland and Elevated Mound	Natural	11.200	acres	2020	10	2030
MD	2021	Constructed Wetland and Elevated Mound	Natural	27.500	acres	2021	10	2031
MD	2021	Wetland Rehabilitation	Natural	34.000	acres	2021	15	2036
MD	2019	Constructed Wetland and Elevated Mound	Natural	24.500	acres	2019	10	2029
MD	2018	Constructed Wetland and Elevated Mound	Natural	4.000	acres	2018	10	2028

# DATA COLLECTION STATUS

Entity	Date Requested	Status	Date of Last Interaction	# of Projects Submitted
Ducks Unlimited	6/28/2022	Received	2/14/2023	92
The Nature Conservancy	7/1/2022	Received	8/8/2023	33
DC	3/7/2023	Not Received	3/7/2023	0
Delaware	2/20/2023	Not Received	3/28/2023	0
Maryland	2/22/2023	Received	4/21/2023	449
New York	3/7/2023	Received	4/25/2023	61
Pennsylvania	3/10/2023	Partially Received	4/20/2023	22
Virginia	2/24/2023	Partially Received	3/23/2023	6
West Virginia	2/16/2023	Received	3/24/2023	6

# DATA SUBMISSION DEADLINES

- Data requests from Helen will go out annually in the Spring, after the 2/7 water quality reporting timeline
- We will work closely with the data reporters to fit their data into the reporting template
- **These data will be used to update Chesapeake Progress**

VITAL HABITATS			
Black Duck Outcome	 RECENT PROGRESS <b>INCREASE</b> <small>Updated November 2022</small>	 OUTLOOK <b>UNCERTAIN</b> <small>Updated November 2022</small>	→
Brook Trout Outcome	 RECENT PROGRESS <b>NO CHANGE</b> <small>Updated September 2019</small>	 OUTLOOK <b>OFF COURSE</b> <small>Updated November 2021</small>	→
Fish Passage Outcome	 RECENT PROGRESS <b>INCREASE</b> <small>Updated August 2021</small>	 OUTLOOK <b>ON COURSE</b> <small>Updated November 2021</small>	→
Forest Buffers Outcome	 RECENT PROGRESS <b>INCREASE</b> <small>Updated March 2023</small>	 OUTLOOK <b>OFF COURSE</b> <small>Updated March 2023</small>	→
Stream Health Outcome	 RECENT PROGRESS <b>NO CHANGE</b> <small>Updated March 2018</small>	 OUTLOOK <b>UNCERTAIN</b> <small>Updated November 2021</small>	→
Submerged Aquatic Vegetation (SAV) Outcome	 RECENT PROGRESS <b>INCREASE</b> <small>Updated July 2022</small>	 OUTLOOK <b>OFF COURSE</b> <small>Updated July 2022</small>	→
Tree Canopy Outcome	 RECENT PROGRESS <b>DECREASE</b> <small>Updated February 2023</small>	 OUTLOOK <b>OFF COURSE</b> <small>Updated February 2023</small>	→
Wetlands Outcome	 RECENT PROGRESS <b>INCREASE</b> <small>Updated November 2022</small>	 OUTLOOK <b>OFF COURSE</b> <small>Updated November 2022</small>	→



# THANK YOU!

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