

Cape Cod Water Resources Restoration Project Summary of Projects

funded through the Watershed and Flood Prevention Operations Program in FY2022



Overview

The U.S. Department of Agriculture’s Natural Resources Conservation Service (NRCS) in Massachusetts will invest \$42.5 million to restore and protect water quality on Cape Cod in fiscal year 2022. Some 21 individual projects will be funded as part of the watershed-wide Cape Cod Water Resources Restoration Project, which will include seven fish passage installations, 10 stormwater remediation projects and four salt marsh restoration projects.

The funding is provided through the federal Watershed and Flood Prevention Operations Program. NRCS worked with the project sponsors – the Cape Cod Conservation District, the

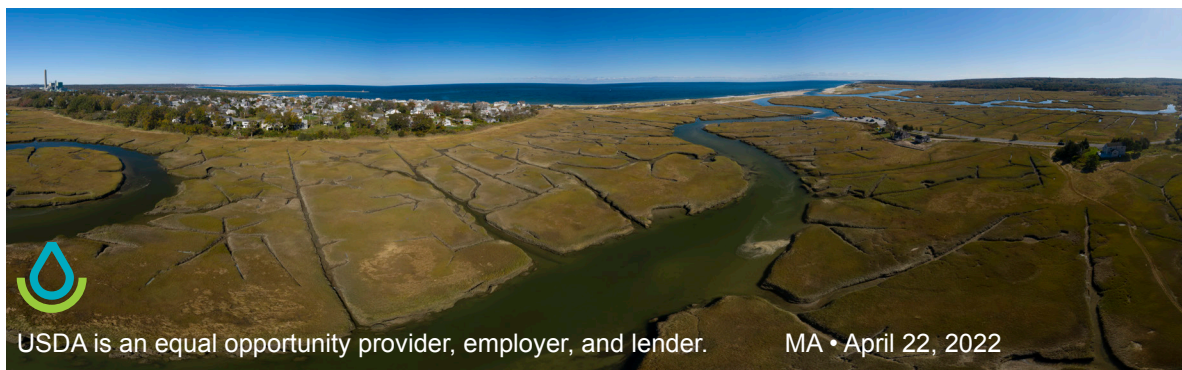
Barnstable County Commissioners, the Executive Office of Energy and Environmental Affairs and all 15 Cape Cod towns – to identify project sites.

NRCS funding for the individual projects is estimated and subject to change as costs are refined. NRCS funding will cover 75 percent of the eligible construction costs. In addition, NRCS may provide funding for design and project administration up to 25 percent of the construction cost. The towns are responsible for 25 percent of the construction costs and any additional design and project administration costs.

Saltmarsh restoration projects

NRCS funding: \$31,738,500

Town	Project site	Description	Habitat units
Brewster	Freeman’s Pond Adaptive Management	This salt marsh project was funded and installed by NRCS in 2010. The site has adjusted to the increased tidal flow over time and needs work to protect culvert by extending wingwalls. Adaptive Management was identified in the plan to fund this type of work.	8 ac.
Sandwich	Jones Lane Restriction of Scorton Creek	This salt marsh restoration project will replace the culvert under Jones Lane with a properly sized culvert to restore tidal flow to the section of Scorton Creek east of Jones Lane. A section of Jones Lane will be raised to accommodate SLR.	34 ac.
Truro	Truro Center Road	This is a priority salt marsh restoration project for the Town of Truro (Sponsor), who has been engaged with partners and NRCS to determine a solution. The project will replace the culvert under Truro Center Road with properly sized and adapted culverts that will restore natural tidal flows to the upper Marsh system and reduce flooding from Balston Beach over-wash events.	57 ac.
Wellfleet	Herring River Salt Marsh Restoration Project	Funding request based on most recent engineer’s estimate for multiple components to restore over 890 acres of saltmarsh. The bridge component of the project which replaces three small culverts is scheduled to be bid out this fiscal year. Other components will follow in the next fiscal year.	890 ac.



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Stormwater treatment projects to protect shellfish harvesting

NRCS funding: \$6,427,000

Town	Project site	Description	Habitat units
Bourne	Monks Park/Valley Bars	This stormwater treatment project addresses runoff from a sloping town road and parking area that are immediately above a shellfish aquaculture site and a state conditionally approved shell fishing area. The Park is known for its dog walking popularity; therefore, it is an ample source of fecal bacteria.	150 ac
Dennis	Follins Pond Landing and Follins Pond Road	This stormwater treatment project will address runoff from a sloping town road that drains onto a large parking area and ramp access to the pond. Three shellfish species populate the pond, which is used as a research site for Barnstable County Marine Extension Service. The Division of Marine Fisheries classifies as conditionally approved.	189 ac.
Mashpee	Ramp at Mashpee Neck Road Adaptive Management	This stormwater project to protect shellfish areas was funded and installed by NRCS in 2010. The ramp at the site needs some additional work to function as intended to collect and treat the first inch of runoff from the impervious areas. Adaptive Management was identified in the plan to fund this type of work. The site has not failed so an investigation or remedial funds are not needed.	Previously captured
Orleans	Cove Road	This is a stormwater treatment project with a sloping town road, parking area and ramp. This site provides access to the southern portion of Town Cove, a popular recreation area for hard and softshell harvesting.	258 ac.
Provincetown	Coast Guard outfall	This stormwater treatment system captures runoff from a section of dense development in the Town west of Ryder/Gosnold streets. Current direct discharge outfall pipes will be eliminated.	75 ac.
Provincetown	Pearl Street	This stormwater treatment system eliminates another outfall with a smaller contribution area east of Ryder/Gosnold area. Outfall to be eliminated.	150 ac.
Provincetown	Ryder and Gosnold Street Outfalls	This hydraulically connected system of town infrastructure captures a large portion of runoff from the center of the village. Current direct discharge outfall pipes will be eliminated and treated through infiltration.	75 ac.
Wellfleet	Lieutenant Island Road – seven outfalls	This stormwater treatment will address a 600 ft+ section of town road that has seven discharges into an approved classification area. There are good sets of hard and softshell crabs on the north side of the road and oysters along the southern section.	53 ac.
Wellfleet	Kendrick Ave. at Kellers Corner	This stormwater treatment site, just east of Powers Landing, drains a section of town road into Wellfleet harbor. The same criteria applies to this site (see Powers Landing). Of note, a section of roadway at Kellers Corner is subject to storm tide erosion and may need riprap stabilization to protect road and associated planned stormwater infrastructure.	83 ac.
Wellfleet	Powers Landing	This parking area and ramp provides access to the largest shellfish aquaculture growing area in the state. Stabilizing and controlling runoff here is considered important by industry officials. Also, Wellfleet Bay is an Area of Critical Environmental Concern (ACEC).	82 ac.



Migratory fish passage improvement projects

NRCS funding: \$4,030,500

Town	Project site	Description	Habitat units
Barnstable	Long Pond	This project will install a permanent outlet structure with effective fish passage to replace the current collection of sandbags forming a weir at the Long Pond Outlet. While fish passage is the primary objective, control of flow velocities and water level in Long Pond are also major design considerations. Fish passage into Long Pond (HU) is critical to subsequent passage into Wequaquet Lake spawning.	654 ac.
Barnstable	Upper Marston Mill/Middle Pond*	Fish Passage Project under re-design to restore fish passage to the natural channel rather than upgrading the 1000 ft bypass timber/earthen channel.	86 ac.
Brewster	Stony Brook North and South*	This project will restore a historic retaining wall between the upper fishway and the mill pool. The lower fishway section will be modified to add weirs to improve efficiency of fish passage.	386 ac.
Chatham	Rt 28 Culvert - Ryders Cove	This project will replace the crushed culvert under Rte. 28 as well as modify the fishway channel leading to Stillwater Pond.	55 ac.
Eastham	Cole Road*	NRCS and the Town of Eastham are currently under an agreement to complete this fish passage project. Additional funds are needed to complete the design. Funds are also being requested for construction based on current engineering estimates.	115 ac.
Eastham	Great Pond*	NRCS and the Town of Eastham are currently under an agreement to complete this fish passage project, which replaces a restricted and under-sized culvert.	30 ac.
Mashpee	Johns Pond*	NRCS and the Town of Mashpee are currently under an agreement to complete this fish passage project, which repairs the entrance to the fish ladder and addresses sedimentation of the channel.	317 ac.

* Additional funds needed to supplement what has already been received.

