Coastal Resilience Grants – FY 2018 Project Summaries

Recipient	Project Title and Description	Award
Town of Dennis	*Improving the Coastal Resiliency of Dr. Bottero Road and Chapin Beach - Coastal Structure and Beach Nourishment Design and Massachusetts Environmental Policy Act Compliance* The Town of Dennis will study the effect of waves and the movement of sand along Chapin Beach and develop engineering design plans for a small-scale beach nourishment project with a new groin to mitigate severe erosion at Dr. Bottero Road and maintain access to the beach and Aquacultural Research Corporation.	$133,300
Duxbury Beach Reservation, Inc.	*Duxbury Beach Dune Restoration Project* The Duxbury Beach Reservation will design and permit a 1,700-foot-long dune restoration project between the first and second crossovers on Duxbury Beach to strengthen the resilience of the barrier beach dune system and protect the Duxbury Beach access road.	$36,340
Town of Eastham	*Assessment of Multi-decadal Coastal Change - Eastham to Wellfleet* The Town of Eastham will study the volume, rate and direction of sand moving along a six-mile stretch of Cape Cod Bay shoreline in the towns of Eastham and Wellfleet. This data will help inform future design, evaluation and implementation of regional shoreline management efforts.	$79,676
Town of Essex	*Improving Coastal Hazard Management along the North Shore - Integrating Science, Outreach and Education to Increase Ecosystem and Community Resiliency* The Town of Essex will develop a comprehensive database of flooding, erosion and other coastal hazard data specific to the Great Marsh, conduct regional workshops on emergency management and coastal resilience planning issues and design and install educational signage on future climate change projections and local adaptation efforts.	$71,450
Town of Falmouth	*Assessment of Shoreline Stabilization Alternatives for Menauhant Beach* The Town of Falmouth will evaluate engineering alternatives to increase protection of Menauhant Beach and associated roadway infrastructure located west of the Bournes Pond Inlet to address current flooding and erosion concerns and potential future sea level rise impacts.	$124,695
City of Gloucester	*Gloucester Pump Stations - Floodproofing Redesign and Retrofit*	$97,500

	The City of Gloucester will design and prepare bid specifications for infrastructure improvements at five of its most vulnerable pump stations. The floodproofing measures will be designed to protect the long-term function of the pump stations from anticipated sea level rise impacts.	
Town of Kingston	*Gray's Beach Park Coastal Restoration, Retreat and Site Improvement Project* The Town of Kingston will restore Gray's Beach to a more natural environment by replacing a deteriorating stone revetment with a marsh and dune system and relocating an existing concession and restroom facility farther inland to accommodate future flooding, erosion and sea level rise impacts.	$497,725
Town of Marshfield	*Feasibility Assessment and Design for Beach and Dune Enhancement through Beneficial Reuse of Dredged Materials from Green Harbor* The Town of Marshfield will analyze existing conditions along the shoreline and conduct a feasibility evaluation of potential town-owned locations to place sand and other sediment that is routinely dredged from Green Harbor for future beach and dune enhancement.	$36,000
Town of Mattapoisett	*Addressing Mattapoisett's Potable Water Infrastructure Vulnerabilities at the Pease's Point Water Main Crossing* The Town of Mattapoisett will complete final design and permitting of recommended improvements to the water main crossing between Pease's Point and Point Connett to help ensure that service and water quality will be maintained during storm events.	$67,800
City of New Bedford	*West Rodney French Boulevard Beach Nourishment - Engineering and Permitting* The City of New Bedford will complete a detailed analysis of shore protection alternatives and develop permit-level engineering design plans for a preferred beach nourishment project along West Rodney French Boulevard.	$153,045
Northeastern University	*Enhancement and Stabilization of Natural Cobble Shoreline at Canoe Beach* Northeastern University will evaluate, design and submit permit applications for a mixed-sediment (e.g., sand, gravel and cobble) dune and beach nourishment project that will provide increased storm damage protection for Canoe Beach and the surrounding public utilities, infrastructure and facilities.	$202,950
City of Salem	*Salem Collins Cove Bioengineering with Coir Rolls and Sea Grass Plantings*	$11,250

	The City of Salem will complete permitting activities and prepare final construction design plans to restore a fringing salt marsh using coir rolls and natural vegetation along Collins Cove to provide increased protection from erosion, storm surge and wave forces.	
Town of Scituate	*Engineering and Environmental Permitting for Roadway Elevation Improvements and Dune Nourishment along North Humarock Beach for Improved Coastal Resiliency* The Town of Scituate will develop engineering designs and preliminary environmental permit documents for dune nourishment and roadway elevation along a portion of Central Avenue on Humarock Beach to provide storm damage protection for repetitively damaged public and private infrastructure.	$210,000
Town of Wareham	*Coastal Resilience Improvements - Final Design for Three Priority Pump Stations* The Town of Wareham will obtain required permits and develop final construction plans, specifications and cost estimates for improvements at three of its most vulnerable pump stations to help endure future storm events and minimize public health and environmental risks.	$101,100
Town of Weymouth	*Puritan Road Flood Mitigation and Ecological Resilience – Construction* The Town of Weymouth will replace an existing, collapsing culvert at the entrance to Great Esker Park with a new culvert and "daylight" a portion of the tidal stream to mitigate flooding around Puritan Road and improve the health and function of the salt marsh.	$397,500
Town of Winthrop	*Coughlin Park Green Infrastructure Project - Design and Permitting* Winthrop will finalize design plans and prepare permit applications for a coastal bank stabilization project using bioengineering techniques at Coughlin Park to minimize erosion and maintain public access to the beach and nearshore area.	$77,550
TOTAL		**$2,297,881**