



SCITUATE MASSACHUSETTS

# Town of Scituate, MA Hazard Mitigation Plan Update Public Workshop #2

Craig Pereira, CFM  
Project Manager – Horsley Witten Group

April 6, 2022 6:00 PM – 8:00 PM  
Virtual



# Virtual Platform



# A Request of Participants

- **In the Chat area to Corey Miles:**
  - Your Full Name
  - Are you a resident, business owner, municipal employee?

Welcome...

**WELCOME!**

# Town of Scituate

## Local Hazard Mitigation Committee

- Kyle Boyd, Director of Planning and Development
- John Murphy, Fire Chief/Emergency Management Director
- Karen Joseph, Town Planner
- William Branton, Sewer Division Supervisor
- Sean McCarthy, Supervisor of Engineering/Public Works
- Amy Walkey, Conservation Agent/Natural Resources Officer
- Robert Vogel, Building Commissioner/Zoning Enforcement Officer
- Mark Thompson, Police Chief
- Dan Smith, Engineering
- Andrew Scheele, Director Board of Health
- Corey Miles, Coastal Management Officer
- Margaret Loughlin, Resident
- Ben Haskell, Environmental/NOAA
- James Canavan, Academia
- Sara Grady, North and South River Watershed
- Lynda Ferguson, Business Owner

# Why Hazard Mitigation Planning?

Disaster Mitigation Act of 2000, Interim Final Rule, 44 CFR Parts 201 and 206 states, “All communities must have an approved Multiple Hazards Mitigation Plan in order to qualify for future federal disaster mitigation grants”.

Reduction or elimination of long-term risk to life, property, and the environment.

# Mission Statement

*To preserve and enhance the quality of life, property and resources. By identifying all potential natural hazards impacting the community today and into the future, and implementing mitigation actions to protect Scituate's population, infrastructure, and historical, cultural, and natural resources, we will ensure a resilient community.*

# Mitigation Process

- Assess Risks
- Establish Goals
- Identify Projects/Actions
- Update/Maintain Plan



# Risk Assessment...Hazards

- Flood-Related
- Winter-Related
- Wind-Related
- Geologic-Related
- Drought-Related
- Extreme Heat-Related
- Urban Fire/Wildfire-Related
- Invasive Species-Related

Climate Change...As one of the most pressing issues with both direct and indirect impacts on the range of natural hazards the town is vulnerable to, it has been included as a 'climate change impacts on' section to each natural hazard profiled.

# Outreach and Coordination

Project Webpage

Municipal Interviews

Hazard Mitigation Planning Team Meetings

- November 18, 2020
- April 29, 2021
- September 2, 2021
- February 1, 2022

Public Workshop #1

- July 27, 2021

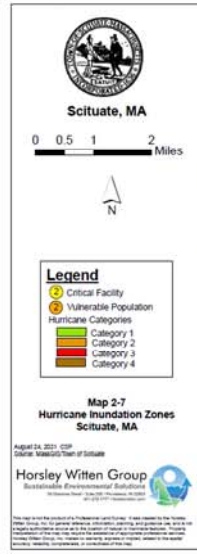
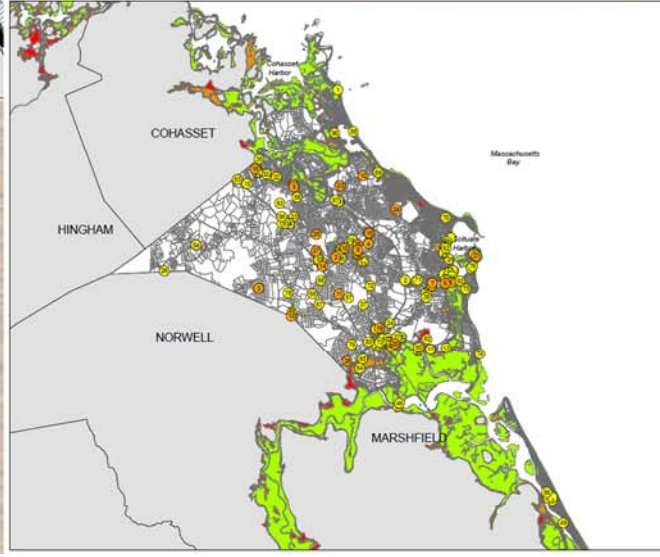
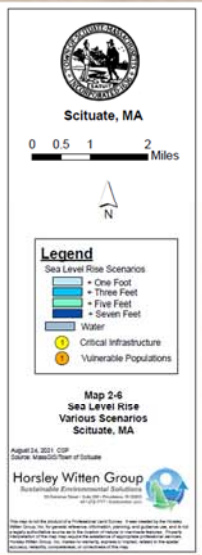
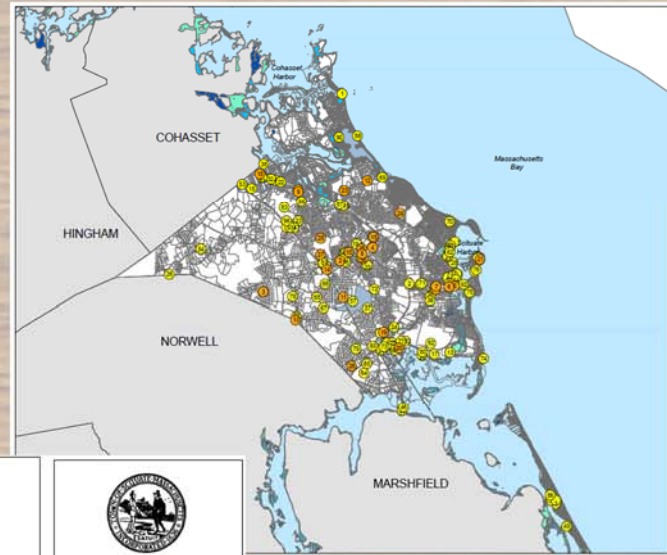
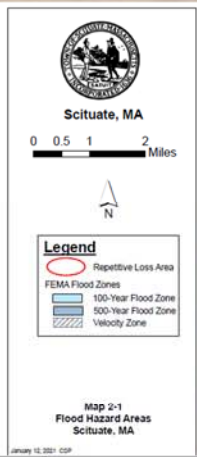
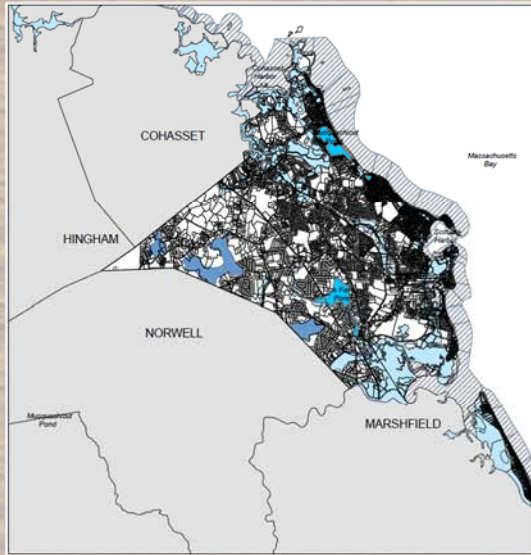
Online Community Survey

- 285 responses

# Risk Assessment...Hazard Index Update

<i>Natural Hazard</i>	<i>Frequency (i.e. Very Low, Low, Medium, High)</i>	<i>Location (i.e. small/local, medium/regional, large/multiple communities)</i>	<i>Severity (i.e. minor, serious, extensive, catastrophic)</i>	<i>Hazrd Index (i.e. ranked by combining frequency and severity; 10 - high, 1 - low)</i>
<b>Flood-Related Hazards</b>				
- Riverine/Flash Flooding	High	Medium/Regional	Serious	6
- Inland/Urban Flooding/Heavy Rain	High	Medium/Regional	Extensive	7
- Climate Change	Medium	Large/Multiple	Serious	5
- Dam Failure	Low	Small/Local	Serious	4
- Coastal Flooding	High	Medium/Regional	Extensive	7
- Sea Level Rise	High	Large/Multiple	Serious	6
- Storm Surge	High	Small/Local	Minor	5
- Coastal Erosion/Shoreline Change	High	Medium/Regional	Extensive	7
<b>Winter-Related Hazards</b>				
- Blizzards/Snow/Nor' easter	High	Large/Multiple	Extensive	8
- Ice	Very Low	Medium/Regional	Minor	2
- Extreme Cold	High	Small/Local	Minor	5
<b>Wind-Related Hazards</b>				
- Hurricanes	High	Large/Multiple	Extensive	7
- Tornadoes	High	Medium/Regional	Serious	6
- High Winds	High	Medium/Regional	Extensive	7
- Lightning/Thunderstorms	High	Medium/Regional	Serious	6
- Hail	High	Small/Local	Minor	5
- Tropical Storm	High	Large/Multiple	Serious	6
- Waterspout	Very Low	Small/Local	Minor	2
<b>Geologic-Related Hazards</b>				
- Earthquakes	Very Low	Medium/Regional	Serious	3
- Landslides	Very Low	Small/Local	Minor	2
<b>Extreme Heat-Related Hazards</b>				
- Extreme Heat	High	Small/Local	Minor	5
<b>Drought</b>				
- Drought	High	Medium/Regional	Minor	5
<b>Urban Fire/Wildfire</b>				
- Urban Fire/Wildfire	Low	Small/Local	Minor	2
<b>Invasive Species</b>				
- Multiple	Medium	Small/Local	Minor	4

# Economic Vulnerability Analysis Various Scenarios



# Economic Vulnerability

- NFIP-insured properties
- Impacts of:
  - FEMA Flood Zones
  - Impacts of Sea Level Rise
  - Sea, Lake, and Overland Surge from Hurricanes
  - Business interruption

**Table 2-20 Total Vulnerability FEMA AE/100-Year Flood Zone Summary**

Land Use	No. of Parcels Impacted	Total Value
Auto Repair/Gas/Service	2	\$2,640,400
Chapter 61	2	\$37,730
Charitable	5	\$1,105,800

**Table 2-23 Total Vulnerability Sea Level Rise 1-Foot Scenario, Scituate**

Land Use	No. of Parcels Impacted	Total Value
Auto Repair/Gas/Service		
Chapter 61		
Charitable	1	\$39,900
Civic	2	\$1,066,400

**Table 2-19 Summary of National Flood Insurance Program Activity in Scituate, MA**

Total Policies	Coverage Value	Policies in A-Zone	Policies in X-Zone	Policies in V-Zone	Losses Paid
1,435	\$391,647,600	914	441	80	\$46,748,279.93

Source: FEMA, NFIP through July 2021.

**Table 2-25 Total Vulnerability Hurricane Category 1, Scituate**

Land Use	No. of Parcels Impacted	Total Value
Auto Repair/Gas/Service	8	\$9,300,300
Chapter 61		

# Social Vulnerability

## **Public infrastructure/Emergency lifelines**

- Drinking Water Systems
- Wastewater Systems (Municipal sewer/Onsite wastewater treatment)
- Electricity
- Natural Gas
- Telecommunications
- Transportation Systems
- **Evacuation/Population at risk**

# Environmental Vulnerability

## **Direct Impacts:**

- Loss of habitat
- Salinization of land and groundwater

## **Indirect Impacts**

- Inland damage to the built environment
- Threats to ecosystems and species
- Contamination of potable water

# Capability Assessment

- Planning and Regulatory
- Administrative and Technical
- Financial



# Goals

1. Prevent and reduce the loss of life, injury, and property damages resulting from all natural hazards.
2. Prevent and reduce damage to public infrastructure resulting from all hazards.
3. Educate the public regarding vulnerabilities to natural hazards and steps to take towards increased resiliency.
4. Facilitate regional coordination/collaboration for hazards affecting multiple communities.

# Mitigation Strategy

## **Mitigation Actions identified from:**

- Carry Over from the 2016 Plan
- MVP Report
- HMPT Coordination
- Various Plans, Studies and Reports
- HWG/Consultant

# Mitigation Measures...Categories

- Planning and Prevention
- Property Protection
- Natural Resource Protection
- Structural Projects
- Emergency Services, and
- Public Education and Awareness

# Mitigation Strategy...

## Prioritization of Actions...STAPLEE Method

- **Social**...is the action socially acceptable?
- **Technical**...is the action technically feasible and provide appropriate level of protection?
- **Administrative**...does the Town have the capability to complete the action?
- **Political**...will the Town support or oppose the project?
- **Legal**...does the Town have the legal authority to complete the action?
- **Economic**...is the action cost-effective?
- **Environmental**...will the action affect the natural environment?

# Mitigation Actions

## Time Frames

- Short Term: 0 – < 6 months
- Medium Term: > 6 – < 18 months
- Long Term: 18 months – 5 years

## Cost Ranges

- Staff Time: Municipal personnel time
- Minimal: < \$5,000
- Moderate: > \$5,000 but < \$25,000
- Significant: > \$25,000

# 2022 Mitigation Strategy

## PUBLIC EDUCATION AND AWARENESS

### **Action #1**

...Building a Resilient Scituate – Climate Vulnerability Assessment and Action Plan, March 2018

***Address the vulnerability of coastal business districts.***

### **Action #2**

...2016 Plan

***CRS participation/implementation of public information program.***

### **Action #3**

...Report of the Massachusetts Coastal Erosion Commission, Volume 1, Findings and Recommendations December 2015/Scituate 2040 Master Plan Update 2021

***Maintain and expand technical and financial assistance and communication and outreach to communities to support local efforts to address the challenges of erosion, flooding, storms, sea level rise, and other climate change impacts.***

# 2022 Mitigation Strategy

## **Action #4**

**...Town of Scituate Coastal Community Assessment, September 2018/Scituate 2040 Master Plan Update 2021**

**Implement recommendations from the Coastal Community Assessment, including:**

- Through a robust community engagement process, develop and adopt a long-term coastal resilience vision and strategy.
- Review, summarize, and present in a simple format, the key actions that have been taken in recent years to improve coastal resilience in Scituate, and the relevant recommendations that have been made in previous studies and plans.
- Convene community conversations about managed retreat.

## **Action #5**

**...Building a Resilient Scituate – Climate Vulnerability Assessment and Action Plan, March 2018**

**Initiate a public outreach and marketing campaign with a sense of urgency on climate change and resilience in Scituate.**

## **Action #6**

**...HW**

**Develop and implement an annual Disaster Mitigation Workshop for businesses, industry, and shoreline users.**

# 2022 Mitigation Strategy

## PROPERTY PROTECTION

### **Action #7**

...2016 Plan/Coastal Erosion, Sediment Transport and Prioritization Management Strategy Assessment for Shoreline Protection, August 2016/Elevating Roadway Improvements and Dune/Scituate 2040 Master Plan Update 2021

***Elevate Vulnerable Structures***

## NATURAL RESOURCE PROTECTION

### **Action #8**

...Building a Resilient Scituate – Climate Vulnerability Assessment and Action Plan, March 2018/Scituate 2040 Master Plan Update 2021

***Evaluate vulnerability to saltwater intrusion for wells and aquifers near the coastline, and vulnerability of water pump stations to a 1% and a 0.2% Annual Chance Flood and prioritize infrastructure improvements that enhance resilience.***



# 2022 Mitigation Strategy

## NATURAL RESOURCE PROTECTION

### **Action #9**

...Building a Resilient Scituate – Climate Vulnerability Assessment and Action Plan, March 2018/Scituate 2040 Master Plan Update 2021

***Relocate or elevate well field pump houses that are in the flood zone in the future.***

### **Action #10**

...Building a Resilient Scituate – Climate Vulnerability Assessment and Action Plan, March 2018

***Revise Stormwater bylaw so all new and redevelopment captures at least first 1” of rain onsite, using Low Impact Development and other strategies, or evaluate the design standards that consider sea level rise and/or the 1% Annual Chance Flood.***

# 2022 Mitigation Strategy

## NATURAL RESOURCE PROTECTION

### **Action #11**

...Building a Resilient Scituate – Climate Vulnerability Assessment and Action Plan, March 2018/Scituate 2040 Master Plan Update

#### **Salt Marsh Restoration:**

- I. Contract a formal evaluation on salt marsh health and long-term monitoring and maintenance such as citizen science groups.
- II. Initiate short-term marsh restoration techniques such as invasive removals.
- III. Evaluate Wetlands Protection Act and land acquisition opportunities to plan for, protect, and/or acquire land for horizontal marsh migration.
- IV. Perform recommendations for salt marsh restoration based upon formal evaluation.
- V. Collaborate with the Town of Marshfield on salt marsh evaluation and restoration.

# 2022 Mitigation Strategy

## NATURAL RESOURCE PROTECTION

### **Action #12**

...Open Space and Recreation Plan 2018/Scituate 2040 Master Plan Update 2021

***Protect Scituate's natural shoreline and coastal features and waters, which are a prime recreational and economic resource, and which give the Town its identity as a very appealing seaside community.***

- I. Continue to coordinate various town departments and local task forces to develop bylaws and best practices that relate to preserving and enhancing the natural shoreline and coastal resources in the current status and with expected impacts of sea level rise.
- II. Continue to strongly enforce Town bylaws discouraging new construction in the floodplain.
- III. Implement recommendations from the Coastal Assessment Study and other recent and ongoing studies, as applicable to shoreline protection.
- IV. Initiate public education on shoreline and coastal resources protection, as well as issues affecting public use of the beach.
- V. Work with surrounding communities on long-term planning to ensure regional cooperation on solutions to coastal hazards.

# 2022 Mitigation Strategy

## NATURAL RESOURCE PROTECTION

### **Action #13**

...Open Space and Recreation Plan 2018/Report of the Massachusetts Coastal Erosion Commission, Volume 1, Findings and Recommendations December 2015

*Enhance the natural beauty of the Town's landscape by protecting existing open space, while promoting appropriate use.*

## STRUCTURAL PROJECTS

### **Action #14**

...Building a Resilient Scituate – Climate Vulnerability Assessment and Action Plan, March 2018/Scituate 2040 Master Plan Update 2021

*For additional interim protection prior to raising critical infrastructure and residences, consider building soft shoreline protection features such as earthen berms with living shorelines to protect buildings located in low energy flood zones.*

# 2022 Mitigation Strategy

## STRUCTURAL PROJECTS

### **Action #15**

...Building a Resilient Scituate – Climate Vulnerability Assessment and Action Plan, March 2018/Scituate 2040 Master Plan Update 2021

***Continue beach and dune nourishment.***

### **Action #16**

...Building a Resilient Scituate – Climate Vulnerability Assessment and Action Plan, March 2018/Scituate 2040 Master Plan Update 2021

***Install sacrificial dunes, sand fences, seawalls and other coastal infrastructure investments.***

# 2022 Mitigation Strategy

## **Action #17**

...Coastal Erosion, Sediment Transport and Prioritization Management Strategy Assessment for Shoreline Protection, August 2016/Elevating Roadway Improvements and Dune/Beach Nourishment Along North Humarock for Improved Coastal Resiliency, March 28, 2017/Scituate 2040 Master Plan Update 2021

### **Implement Recommended Shore Protection Measures by Study Area**

- **Minot Beach**
  - Beach nourishment/Perched cobble beach 1,200 feet
  - Seawall improvements
- **North Scituate Beach/Seaside Road**
  - North Scituate Beach - beach nourishment (Phase 1 2,900 feet)
  - Surfside Road – beach nourishment (2,700 feet)
- **Mann Hill Beach**
  - Managed retreat (move homes landward)
  - Managed retreat (buyout all homes)
- **Egypt Beach**
  - Construction of a boulder dike (2,300 feet)

# 2022 Mitigation Strategy

## **Action #17**

...Coastal Erosion, Sediment Transport and Prioritization Management Strategy Assessment for Shoreline Protection, August 2016/Elevating Roadway Improvements and Dune/Beach Nourishment Along North Humarock for Improved Coastal Resiliency, March 28, 2017/Scituate 2040 Master Plan Update 2021

### **Implement Recommended Shore Protection Measures by Study Area**

- **Oceanside Drive...consider first the incremental improvements/repairs completed through several EOEEA coastal grants (1<sup>st</sup> grant to repair 760 feet of seawall/\$4.0 million...2<sup>nd</sup> grant to repair/replace 525' of seawall/\$3.0 million...3<sup>rd</sup> grant**
  - Rehabilitation of seawall and revetment (10,000 feet)
  - Drainage improvements for the basins
- **Cedar Point**
  - Rehabilitation of seawall and revetments (1,300 feet)
  - Beach nourishment/Cobble berm (1,200 feet)
  - Boulder dike (1,200 feet)

# 2022 Mitigation Strategy

## **Action #17**

...Coastal Erosion, Sediment Transport and Prioritization Management Strategy Assessment for Shoreline Protection, August 2016/Elevating Roadway Improvements and Dune/Beach Nourishment Along North Humarock for Improved Coastal Resiliency, March 28, 2017/Scituate 2040 Master Plan Update 2021

### **Implement Recommended Shore Protection Measures by Study Area**

- **First Cliff**
  - Maintain the status quo
- **Edward Foster Road**
  - Rehabilitation of seawall and revetment (1,300 feet)
  - Rehabilitation of seawall and revetments (1,300 feet)
  - Beach nourishment/Cobble berm (1,200 feet)
  - Boulder dike (1,200 feet)
- **Second Cliff**
  - Maintain the status quo
- **Peggotty Beach**
  - Managed retreat (move homes landward)
  - Managed retreat (buyout all homes)



# 2022 Mitigation Strategy

## **Action #17**

...Coastal Erosion, Sediment Transport and Prioritization Management Strategy Assessment for Shoreline Protection, August 2016/Elevating Roadway Improvements and Dune/Beach Nourishment Along North Humarock for Improved Coastal Resiliency, March 28, 2017/Scituate 2040 Master Plan Update 2021

### **Implement Recommended Shore Protection Measures by Study Area**

- **Third Cliff**
  - Maintain the status quo
- **Fourth Cliff**
  - Maintain the status quo
- **Humarock North/South**
  - Elevate Central Avenue (4,800 feet)
  - Humarock North only beach nourishment (50-foot berm/3,500 feet)
  - Humarock North only beach nourishment (100-foot berm/3,500 feet)
  - Humarock North/South beach nourishment (50-foot berm/10,500 feet)
  - Humarock North/South beach nourishment (100-foot berm/10,500 feet)
  - Construction of dunes stand-alone (4,800 feet)

# 2022 Mitigation Strategy

## **Action #18**

...Scituate Harbor Sustainability and Resilience Master Plan, August 2020/Scituate 2040 Master Plan Update 2021

### ***Implement Resilience Recommendations for Scituate Harbor***

- I. A new elevated waterfront park amenity at Cole Parkway that provides flood protection.
- II. New seating and coastal amenities along an elevated Scituate Harborwalk from Cole Parkway to the Town Pier, evaluating the feasibility of potential for extension to the Scituate Marine Park.
- III. Elevation of sea walls and bulkhead edges that already exist in the district
- IV. Floodproofing the waterside of buildings along Front Street and adding infrastructure for deployable floodgates between gaps in buildings.
- V. Exploration of roadway infrastructure resilience improvements at the Satuit Brook bridge and Edward Foster Road and bridge.

# 2022 Mitigation Strategy

## **Action #19**

...Scituate Comprehensive Wastewater Treatment Resilience Feasibility Study/ Building a Resilient Scituate – Climate Vulnerability Assessment and Action Plan, March 2018/Scituate 2040 Master Plan Update 2021

### **Implement Flood Mitigation Measures for the Identified Pump Stations and the Wastewater Treatment Plant**

- I. Form a water/wastewater planning committee to develop a long-range management plan for the resilience of water/wastewater within the Town.**
- II. Reduction to Elimination of Infiltration/Inflow**
- III. Flood Protection of Pump Stations (in order of priority)**
  - Sand Hills
  - Musquashicut
  - Herring Brook
  - Chain Pond
  - Peggotty Beach
  - Edward Foster
  - Collier Road
- IV. Flood Protection of Treatment Plant/Enhance Treatment Plant Overflow Capacity**

# 2022 Mitigation Strategy

## PLANNING AND PREVENTION

### **Action #20**

...Building a Resilient Scituate – Climate Vulnerability Assessment and Action Plan, March 2018

***Prepare a list of key utility facilities that require critical power restoration and inform the power company of locations of the facilities to expedite electricity restoration during an outage.***

### **Action #21**

...Building a Resilient Scituate – Climate Vulnerability Assessment and Action Plan, March 2018/Scituate 2040 Master Plan update 2021

***Create a Heat Emergency Action Plan.***

### **Action #22**

...Waterways Management Plan 2011

***Set aside five moorings for emergency and storm usage.***

# 2022 Mitigation Strategy

## PLANNING AND PREVENTION

### **Action #23**

**...HW**

**Address the needs of the Old Oaken Bucket Pond Dam:**

- A. Complete a Phase 1 Inspection/Report of the dam.**
- B. Complete recommended improvements based on most recent Phase 1 Inspection Report.**
- C. Develop an Emergency Action Plan (EAP) for Old Oaken Bucket Pond Dam.**

### **Action #24**

**...Mapping Storm Tide Pathways in Scituate and Cohasset: Assessing Coastal Vulnerability to Storms and Sea Level Rise  
Obtain Storm Tide Pathways Study Data, then Implement Recommendations:**

- A. Increase public awareness of the importance of healthy coastal wetlands and natural coastal processes, and the need to protect these resources.**
- B. Use best available tools to understand the potential impact of storm surge on public and private property, sensitive infrastructure and natural resources, and to develop strategies and plans to avoid, minimize or mitigate adverse impacts.**

# 2022 Mitigation Strategy

## PLANNING AND PREVENTION

### **Action #25**

...HW

***Identify municipal personnel to become a Certified Floodplain Manager.***

### **Action #26**

...Building a Resilient Scituate – Climate Vulnerability Assessment and Action Plan, March 2018

***Establish and Maintain a Climate Resilience Task Force that works across departments and commissions for a comprehensive approach across sectors.***

### **Action #27**

...Building a Resilient Scituate – Climate Vulnerability Assessment and Action Plan, March 2018

***Establish neighborhood Resilience Zones for specialized community-based participatory planning where residents, businesses, and neighborhood stakeholders create a shared vision of positive change/adaptation to current and future risks.***

# 2022 Mitigation Strategy

## PLANNING AND PREVENTION

### **Action #28**

...Building a Resilient Scituate – Climate Vulnerability Assessment and Action Plan, March 2018

***Perform a community-based participatory visioning process for Scituate’s Waterfront around Front Street.***

### **Action #29**

...Building a Resilient Scituate – Climate Vulnerability Assessment and Action Plan, March 2018

***Seek out new funding opportunities to implement climate resilience investments.***

### **Action #30**

...Building a Resilient Scituate – Climate Vulnerability Assessment and Action Plan, March 2018

***Evaluate all zoning, bylaws, and codes for barriers to improvements for climate resilience measures in the built, natural, and landscaped environment (i.e., minimize impervious surfaces using pervious pavers, minimize parking requirements, and shared driveways, use Low Impact Development and Green Infrastructure, etc.). Ensure consistency with MA 2020 Model Floodplain Bylaw by creating a Coastal Flood Plain District Bylaw.***

# 2022 Mitigation Strategy

## PLANNING AND PREVENTION

### **Action #31**

...Building a Resilient Scituate – Climate Vulnerability Assessment and Action Plan, March 2018  
**Consider establishing a Coastal Business Improvement District.**

### **Action #32**

...Building a Resilient Scituate – Climate Vulnerability Assessment and Action Plan, March 2018  
**Evaluate culverts, bridges, river and stream crossings for effectiveness in water flow during floods. Use MA Stream Crossing Standards.**

### **Action #33**

...Building a Resilient Scituate – Climate Vulnerability Assessment and Action Plan, March 2018/Scituate 204 Master Plan Update 2021  
**Create a municipal working group to inform design standards on raising roads in response to current and future coastal flooding. Also consider the implications for commercial, industrial, and residential egress.**



# 2022 Mitigation Strategy

## PLANNING AND PREVENTION

### **Action #34**

...Building a Resilient Scituate – Climate Vulnerability Assessment and Action Plan, March 2018

***Support green building standards and energy use reduction for retrofits and new development. Incentivize when possible.***

### **Action #35**

...Building a Resilient Scituate – Climate Vulnerability Assessment and Action Plan, March 2018

***Explore feasibility of implementing Community Shared Solar (CSS) to institute Town-wide renewable energy efforts.***

### **Action #36**

...Building a Resilient Scituate – Climate Vulnerability Assessment and Action Plan, March 2018

***Implement renewable back-up energy strategies for municipal buildings and critical infrastructure such as wells and wastewater pump stations.***

# 2022 Mitigation Strategy

## PLANNING AND PREVENTION

### **Action #37**

...Report of the Massachusetts Coastal Erosion Commission, Volume 1, Findings and Recommendations December 2015

***Support the implementation and study of pilot projects for innovative solutions and the encouragement of learning by doing and experimentation in shoreline management approaches.***

### **Action #38**

...Scituate 2040 Master Plan Update (June 2021)

***Establish programs and policies for buy-outs, land swaps, relocations, and transfers of development rights to allow for relocation.***

# 2022 Mitigation Strategy

## PLANNING AND PREVENTION

### **Action #39**

...Scituate Flow Monitoring Program and Infiltration/Inflow Analysis, CDM Smith, 2016.

**Implement Recommendations for Future Phase II Sewer System Evaluation Survey (SSES):**

**Task 1: Flow Isolation and CCTV Inspection of Sewers**

**Task 2: Manhole Inspection Program**

**Task 3: Smoke Testing Program**

**Task 4: Multi-Sensor Inspection (MSI)**

**Task 5: Community Relations Program**

**Task 6: SSES Report**

### **Action #40**

...HW

**Prepare an 'After the Storm Recovery Plan' for the Community.**

# Project Schedule

Draft Update available for comment: through April 18, 2022:

[https://www.scituatema.gov/sites/g/files/vyhlf3781/f/pages/draft\\_scituate\\_ma\\_hazard\\_mitigation\\_plan.pdf](https://www.scituatema.gov/sites/g/files/vyhlf3781/f/pages/draft_scituate_ma_hazard_mitigation_plan.pdf)

Project webpage:

<https://www.scituatema.gov/coastal-management-and-flood-hazard-mitigation/pages/hazard-mitigation-plan-update-2022>

# Contact Us...

## Questions/Comments:

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