FY23 Completed Action Grant Summaries



Municipal Vulnerability Preparedness Program

MA Executive Office of Energy and Environmental Affairs

Shawsheen River Nature-Based Flood Resilience



Andover FY23-24



Learn More:

Project website

AWARD

\$271,705

MATCH \$ 91,350

PROJECT TYPE

Type 1 (Assessment)

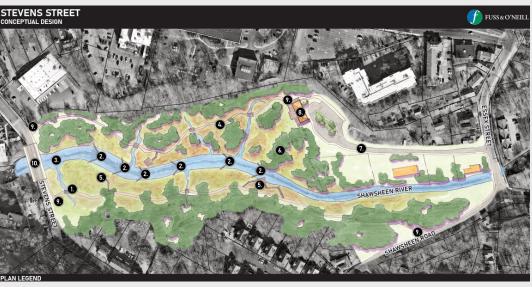
CORE PRINCIPLES
DEMONSTRATED

Employing nature-based solutions; Achieving broad and multiple community benefits

DESCRIPTION

The second phase of the Climate Ready Shawsheen project focuses on quantifying the flood mitigation benefits gained from the implementation of flood storage and/or restoration projects on several of the top-prioritized parcels by using hydrologic and hydraulic (H&H) modeling to evaluate the existing and projected future flooding conditions.





Regional Pocket Forest Pilot Project



Ayer & Devens FY23



Learn More:

Peoject Website

AWARD

\$282,624

MATCH \$92,045

PROJECT TYPE

Planning, Assessments, Capacity Building

CORE PRINCIPLES
DEMONSTRATED

Building community capacity for climate resilience; Employing Nature-Based Solutions

DESCRIPTION

This project engaged the community in the planning and installation of a pilot pocket forest in Ayer. The project team developed educational materials explaining the "why" and "how to" of this nature-based solution.

Approximately 350 indigenous plants were installed at the pilot site by the hands of over one-hundred local/regional volunteers (adults and youth).





Horseshoe Pond Acquisition Project



Berlin FY23



Learn More:

Horseshoe Pond Project Website

AWARD

\$874,268

MATCH \$293,173

PROJECT TYPE

Land Acquisition

CORE PRINCIPLES DEMONSTRATED

Utilizing Climate Change Data For a Proactive Solution; Employing Nature-Based Solutions

- Over a 100 acres of undeveloped forest was added to the Mount Pisgah Conservation Area
- A kiosk was installed at the trailhead to provide information about conservation effort and climate resilience
- Trail maps were translated into both Portuguese and Spanish to make the area more welcoming to local EJ populations



Trout Brook Flood Resilience



Brockton FY23-24



Learn More:

Brockton Resiliency

AWARD

\$157,300

MATCH

PROJECT TYPE

Type 2 – Design and Permitting

CORE PRINCIPLES DEMONSTRATED

Employing Nature-Based Solutions; Increasing Equitable Outcomes for EJ Populations; Achieving Broad and Multiple Community Benefits; Robust Community Engagement

- The project seeks to reduce flooding impacts to the EJ neighborhoods along Trout Brook by creating additional floodplain storage and providing protections against overtopping of Court Street.

 The project simultaneously provides walkable green space to increase connectivity with neighborhood
- Developed 30% designs and a 3D graphic site model for proposed improvements.





Increasing Watershed Scale Resiliency in Boxford Through Culvert Upgrades in the Howlett Brook Watershed



Boxford FY23-24



Learn More:

- PROJECT WEBPAGE
- PROJECT VIDEO

AWARD

\$120,900

MATCH \$82,987

PROJECT TYPE

Type 2 – Design and Permitting

CORE PRINCIPLES DEMONSTRATED

Utilizing climate change data for a proactive solution and employing Nature-Based Solutions (NBS)

- Building off of a prior MVP planning effort, this project resulted in the final designs and permits for three (3) culvert upgrade projects on the same stream system in Boxford.
- These culvert upgrades will provide substantial improvement in climate resiliency for flood-prone infrastructure in Boxford while also resulting in environmental co-benefits like habitat improvement





Cambridge Community Corps (C3) Climate Readiness Project



Cambridge FY23-24



Learn More:

C3 Climate Readiness Project Cambridge Community Corps

AWARD

\$150,000

MATCH \$46,200

PROJECT TYPE

Type 1: Planning, Assessments, Capacity Building, and **Regulatory Updates**

CORE PRINCIPLES **DEMONSTRATED**

Building community capacity for climate resilience; Conducting robust community engagement and supporting strong partnerships with EJ and other priority populations

- Build the capacity of the Cambridge Community Corps (C3) to engage in and lead climate change preparedness efforts.
- •Reduce climate health risks among residents of Cambridge's Environmental Justice (EJ) neighborhoods and other climate vulnerable populations through C3 outreach, mutual aid, and advocacy.
- Catalyze knowledge sharing and thought partnership among participants and leaders of similar community health outreach programs by sharing lessons and practices from the C3 Program.





Pleasant Bay Climate Adaptation Action Plan



Chatham/Pleasant Bay Alliance FY23



Learn More:

Project Website

AWARD

\$287,790

MATCH \$96,235

PROJECT TYPE

Planning and Capacity Building

CORE PRINCIPLES
DEMONSTRATED

Building community capacity for climate resilience; Utilizing climate change data for a proactive solution; Robust community engagement and partnerships

DESCRIPTION

Identified/quantified climate threats to barrier beach, salt marsh, eelgrass, public water access and water/wastewater/stormwater infrastructure.

Developed resilience enhancements for intertidal resources, eelgrass, salt marsh, public water access and water/wastewater/stormwater infrastructure.

Engaged stakeholders in prioritizing climate threats and resilience enhancements to develop a *Climate Adaptation Action Plan for Pleasant Bay*.





Cape Cod Low Lying Roads 2



Chatham, Falmouth, Harwich, Mashpee, Provincetown, FY 2023-24



Learn More

Project Website

AWARD

\$205,479

MATCH \$69,005

PROJECT TYPE

Feasibility and Analysis

CORE PRINCIPLES
DEMONSTRATED

Employing Nature Based Solutions; Achieving broad and multiple community benefits

DESCRIPTION

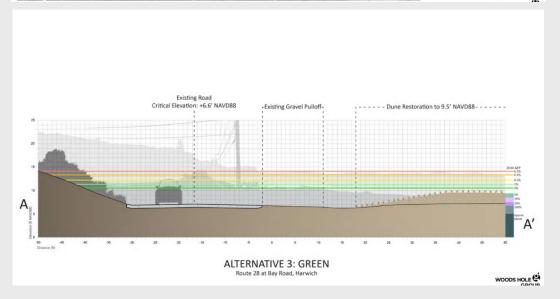
Using the Massachusetts Coast Flood Risk Model, the project team identified roads vulnerable to flooding during coastal storm events at future time horizons. The team assessed the criticality of those roads and assigned a risk level to assist in prioritizing roads for adaptation solutions. The team developed conceptual designs, including nature-based solutions, for 2 roads in each town.





ALTERNATIVE 3: GREEN

A dune restoration to 9.5' NAVD88 protects the road from bayside flooding Mobi-mats are placed to prevent dune erosion and improve accessibility. A small flood wall and berm to 9.5' NAVD88 prevents flanking flooding from Muddy River. An artificial reef array in Pleasant Bay could be investigated to mitigate wave damage and erosion.



Envisioning Resilience in the North Suffolk Region through Community Preparedness



Chelsea FY23-24



Learn More:

Project Website

AWARD

\$ 87,500

MATCH \$ 29,175

PROJECT TYPE

Type 1: Planning, Assessments, Capacity Building, and Regulatory Updates

CORE PRINCIPLES
DEMONSTRATED

Building community capacity for climate resilience and Utilizing regional solutions for regional benefit

DESCRIPTION

This project sought to understand how municipalities and community-based organizations across the North Suffolk Region can ensure that emergency planning for climate impacts will reach and meet the needs of all residents. Tasks included municipal and community interviews, creation of a steering committee, and community engagement leading to recommendations for municipal emergency preparedness plans.





Evaluating & Planning for Resilient Rural Dirt Roads



Chester, Blandford & Middlefield FY23-FY24



Learn More:

 MVP Dirt Roads Data & Public Comments Viewer

AWARD

\$317,550

MATCH \$35,600

PROJECT TYPE

Planning, Assessments, Capacity Building, and Regulatory Updates

CORE PRINCIPLES
DEMONSTRATED

Building community capacity for climate resilience; Achieving broad and multiple community benefits.

- •Complete an analysis and priority ranking of dirt road infrastructure that is informed by a suite of key considerations, including existing conditions, vulnerabilities to the risks associated with greater extremes for the region, and criticality of route to local populations.
- •Build an on-line, interactive mapping tool that Blandford, Chester, and Middlefield officials can use to view dirt road considerations and inform decision making around investments for greater resilience.
- •Integrate nature-based solutions through three important project elements, including a library of 5 to 7 typical BMP fixes for dirt roads, recommendations for beaver activity, and in preliminary design for upgrading priority stream crossings (up to two in each town





Neponset River Watershed Regional Adaptation Strategy and Flood Model: Phase 1



Dedham/Neponset Region FY23



Learn more:

Project Website

AWARD

\$389,457

MATCH \$133,144

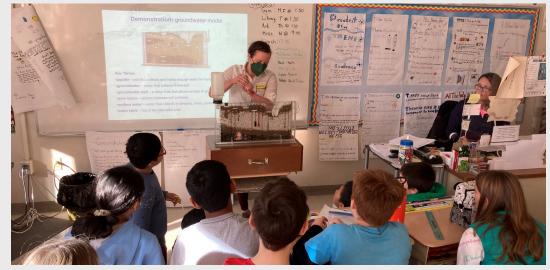
PROJECT TYPE

Planning, Assessments, Capacity Building, and Regulatory Updates

CORE PRINCIPLES
DEMONSTRATED

Furthering a community identified priority action to address climate change impacts, Utilizing regional solutions for regional benefit, and Conducting robust community engagement and supporting strong partnerships with EJ and other priority populations, among others.

- Develop watershed-scale flood model
- Assess efficacy of regional strategies to reduce flood risk
- Create design concepts for neighborhood-level flood mitigation strategies to share with other communities
- Develop framework for watershed-wide climate resilience collaborative
- Robust community engagement, including environmental justice focus group and elementary school curriculum
- Technical assistance for municipal staff around climate-resilient land-use policies





Pound Pond Flood Mitigation & Storm Drainage Improvements



Dennis, MA FY23



Learn More:

Pound Pond Restoration Project

AWARD

\$73,3628

MATCH \$24,542

PROJECT TYPE

Design and Permitting

CORE PRINCIPLES
DEMONSTRATED

Employing Nature Based Solutions; Committing to monitoring project success and maintaining the project into the future

DESCRIPTION

The project goal is to restore Pound Pond at Seaview Park in Dennis to provide water quality, habitat and flood plain improvements. The tasks included:

- Completing hydrologic and hydrologic modeling using climate change data, topographic and wetlands survey
- Ongoing public engagement with EJ community and local stakeholders
- Preparing permit level design and opinion of preliminary construction costs (OPCC)
- Preparing and submitting relevant local, state and federal permits
- Completing a Wetland Monitoring and Site Maintenance Plan





Emerald Place Resiliency



Easthampton FY23



Learn More:

Project Website

AWARD

\$117,800

PROJECT TYPE

Design and Permitting

CORE PRINCIPLES
DEMONSTRATED

Employing Nature-Based Solutions; Increasing Equitable Outcomes for EJ Populations; Achieving Broad and Multiple Community Benefits; Robust Community Engagement

- Emerald Place is at the top of slope along Lower Mill Pond and suffers from erosion and slope failure driven by drainage from increasingly heavy storm events in a dense, highly impervious neighborhood.
- The project advanced field investigations and conceptual design for green infrastructure and nature-based slope stabilization along Emerald Place.
- Community outreach included creative on-site engagement, a Homeowner's DIY stormwater workshop, and hands-on design activities with Easthampton's 4th graders.





Island End River (IER) Flood Resilience Project



Everett FY23-FY24



Learn More:

- Island End River Flood Resilience Project Community | Home
- Pressley Celebrates \$750K Delivered for Chelsea & Everett Island End River Project Ayanna Presslev (house.gov)
- Coastal resilience efforts cross city lines at Island End River in Chelsea and Everett The Bay State Banner

AWARD

\$2,998,600

MATCH \$1,003,061

PROJECT TYPE

Design and Permitting

CORE PRINCIPLES **DEMONSTRATED** Utilizing Climate Change Data for a Proactive Solution, Utilizing Regional Solutions Toward Regional Benefit

DESCRIPTION

Progressed infrastructure design to inform preconstruction cost estimate and develop project schedule

Integrated Nature-based Approaches along the Island End River and Park to address coastal erosion and design for sea level rise

Facilitated discussions with industrial stakeholders to develop project design and long-term O&M

Worked closely with environmental permitting agencies to refine design and enhance project benefits to coastal habitat





Beat the Heat



Everett FY23-24



AWARD \$ 339,915

MATCH \$ 54,300

PROJECT TYPE

Type 2: Design and Permitting

CORE PRINCIPLES
DEMONSTRATED

Increasing equitable outcomes for Environmental Justice (EJ) and other priority populations and addressing the root causes of social vulnerability

- Engage residents through surveys and other means to ascertain their known hotspots and desired types cooling solutions.
- Determine specific locations in Everett and Chelsea to emplace the cooling solutions.
- Purchase and install of resident-desired misters, and water fountains.





South Watuppa Pond Green Infrastructure — Blue Water Restoration Project



Fall River FY23



Learn more:

- Watuppa Reserve Project Website
- Project Facebook Page

AWARD

\$415,127

MATCH \$138,075.50

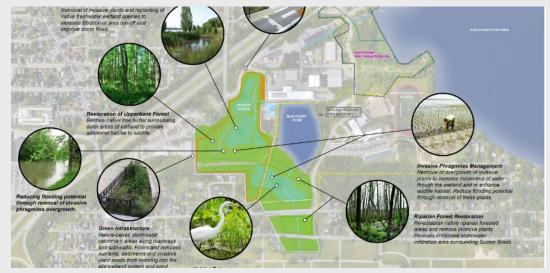
PROJECT TYPE

Planning and Design

CORE PRINCIPLES DEMONSTRATED

Utilizing Regional Solutions Toward Regional Benefit; Conducting Robust Community Engagement; And Achieving Broad And Multiple Community Benefits

- Three municipalities (Fall River, Tiverton, and Westport) partnered to design three stormwater treatment retrofit projects protecting South Watuppa Pond.
- Investigated wetland restoration alternatives for the Sucker Brook Wetland Area, upstream of the Pond, to reduce flooding and improve water quality. Collaborated with neighboring Atlantis Charter School on public access and visioning.
- Partnered with Groundwork Southcoast to conduct public outreach and engagement.





Fairhaven Climate Change Vulnerability Assessment



Fairhaven FY23



Learn More:

- Fairhaven Conservation and Sustainability
- Fairhaven MVP Project Homepage

AWARD

\$40,000

MATCH \$13,500

PROJECT TYPE

Planning/Assessment

CORE PRINCIPLES
DEMONSTRATED

Furthering a community identified priority action to address climate change impacts

- Provide data on likely future flooding scenarios
- Identify potential flooding impacts to public infrastructure
- Identify potential flooding impacts to natural resources
- Prioritize assets by level of risk
- Produce high-quality maps/graphics
- Public outreach and education





Generating Resiliency in Downtown Fitchburg with Nature-Based Solutions



Fitchburg FY23



Learn More:

- Fitchburg Downtown Nature-Based Solution Designs: ArcGIS
- Project StoryMap

AWARD

\$109,000

MATCH \$36,500

PROJECT TYPE

Design and Permitting

CORE PRINCIPLES DEMONSTRATED

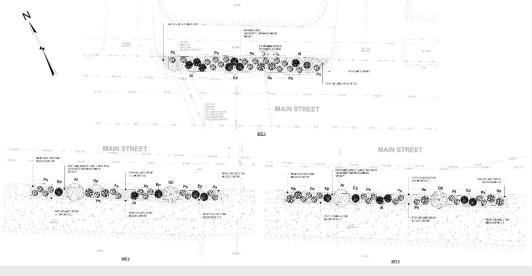
Employing Nature Based Solutions

Achieving Broad and Multiple Community Benefits

DESCRIPTION

The project team took advantage of ongoing combined sewer separation design and construction to identify, design and implement nature-based solutions within downtown Fitchburg. The opportunities were modeled, evaluated, and prioritized based on their ability to reduce surface flooding, urban heat and benefits to community. Implementation of the final designs is in conjunction with the combined sewer separation project timeline and funding.





Walnut Street Flood Mitigation – Permitting & Easements



Framingham FY23



Learn more:

Walnut Street Neighborhood Flood Mitigation

AWARD

\$155,000

MATCH \$62,000

PROJECT TYPE

Design & Permitting

CORE PRINCIPLES
DEMONSTRATED

Furthering a community identified priority action to address climate change impacts; Employing Nature-Based Solutions (NBS); Conducting robust community engagement; Achieving broad and multiple community benefits.

- Restoring and creating flood storage within existing wetlands
- Installing an elevated boardwalk to restore habitat and stream connectivity
- Stream restoration to reestablish flow patterns and restore flood storage





Hatfield 2040 Comprehensive Plan: A Vision to Protect, Prepare, and Prosper



Hatfield FY23



Learn more:

Project Website

AWARD

\$283,900

MATCH \$94,625

PROJECT TYPE

Planning, Assessments, Capacity Building, and Regulatory Updates

CORE PRINCIPLES
DEMONSTRATED

Achieving broad and multiple community benefits; Conducting robust community engagement and supporting strong partnerships with EJ and other priority populations

DESCRIPTION

Located along the Connecticut River, Hatfield faces increasing risk for flooding to local farms, and its village center with critical facilities and homes in harm's way. This project involved a process in defining, reckoning with, and planning for that risk while also advancing the great strengths within a small rural community into the future, along the following themes: A thriving local economy; A capable and resilient local government; Affordable homes and vibrant neighborhoods; Our natural resources; Together as community – welcoming and supportive for all; and Health and wellness. The project also involved review of municipal code and development of regulatory recommendations to support Hatfield 2040 planning objectives.



Action Plan



A Vision to Protect, Prepare, and Prosper

SuAsCo Natural Climate Solutions



Hudson, Framingham, and Natick FY23/24



Natural Climate Solutions Project

Hudson Climate Resilience Self-Guided Tour

Natick Climate Resilience Self-Guided Tour

Framingham Climate Resilience Self-Guided Tour

AWARD

\$314,393

MATCH \$104,798

PROJECT TYPE

Planning, Assessments, Capacity Building, and **Regulatory Updates**

CORE PRINCIPLES **DEMONSTRATED**

Building community capacity for climate resilience and Employing Nature-Based Solutions (NBS)

- Engaged Community in identifying locations that could benefit from NBS
- Visited sites and discussed NBS for each
- Delivered materials for design of NBS and for community education





Lincoln Comprehensive Climate Action Plan (L-CAP)



Lincoln FY23



Learn More:

- Document Translations
- Project Site
- Dashboard

AWARD

\$100,000

MATCH \$47,667.00

PROJECT TYPE

Planning, Assessment, Capacity Building & Regulatory Updates

CORE PRINCIPLES DEMONSTRATED

Conducting robust community engagement and supporting strong partnerships with EJ and other priority populations

Employing Nature-Based Solutions (NBS)

DESCRIPTION

Lincoln's climate goals guide the development and implementation of both short and long-term climate mitigation and resilience efforts in Lincoln.

- Transition to clean energy technologies to support the Town of Lincoln's path towards carbon neutrality.
- Prioritize accessibility, walkability, and connectivity to the Town's commercial centers and community spaces, while
 ensuring that these interconnected multimodal transportation systems are also affordable, reliable, and climate
 resilient.
- Protect Lincoln's agricultural, historic, and environmental resources from climate change impacts.
- Make sure Lincoln residents, especially those who are underserved and underrepresented, are prepared to address
 major climate hazards related to flooding, drought, severe storms, extreme heat and more.
- Increase town-wide diversion rate through programs and policies to prevent, reduce, reuse, compost, and recycle
 waste
- Engage and support local business owners and residents in making their buildings and homes more sustainable and resilient, in an equitable, affordable, and accessible way.
- Align local efforts with the State's climate goals and programs. Connect and share progress of Lincoln's climate actions with others in the region, and advocate for climate solutions at the regional and state level.





Questions or comments?

Contact Jennifer Curtin curtinj@lincolntown.org



The Town of Lincoln is planning for a resilient and sustainable future, and we want to hear from you!



Visit the project website to

lincolntown.org/1411/ Climate-Action-Plan Take and share the public survey to tell us your thoughts on climate action planning Closes on April 10, 2023



www.Tinyurl.com/ LincolnClimateActionSurvey

Toward the New Normal: Envisioning an Inclusive & Resilient Longmeadow



Longmeadow FY23-24



Learn More

Project Website

AWARD

\$235,555

MATCH \$76,238.15

PROJECT TYPE

Planning, Assessments, Capacity Building, and Regulatory Updates

CORE PRINCIPLES **DEMONSTRATED** Furthering a community identified priority action to address climate change impacts; Utilizing climate change data for a proactive solution; Employing Nature-Based Solutions (NBS); Increasing equitable outcomes for and supporting strong partnerships with Environmental Justice (EJ) Populations and Climate Vulnerable Populations; Conducting robust community engagement; Pursuing innovative, transferable approaches

- Partnered with organizations based in the arts and environmental education to conduct unique engagement programming and attract a broad spectrum of participants
- Employed the community liaison model to ensure systematic participation of youth and senior representatives to the Steering Committee
- Developed a Long-Range Plan that incorporated climate science and equity lenses throughout each topic to ensure resilience and inclusivity where intrinsic to the ultimate implementation plan





MV Fostering Ecosystem Resilience



Martha's Vineyard Commission FY23-24



Learn More:

- www.thevineyardway.org
- www.mvcommission.org

AWARD

\$163,540

MATCH \$62,405.90

PROJECT TYPE

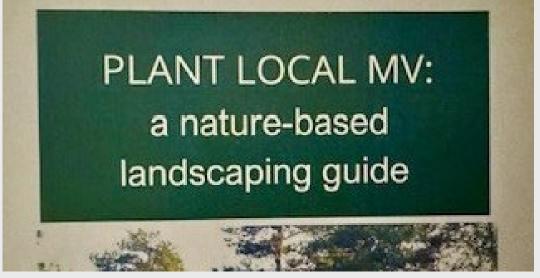
Planning, Assessment, and Capacity Building

CORE PRINCIPLES
DEMONSTRATED

Further priority actions, Env. Justice, build community capacity, nature-based solutions, community engagement, regional, transferable

- Updated MV and Nantucket vegetation and wildlife corridor maps
- Identified potential aquaculture sites in three coastal ponds
- Focus groups to ID barriers to native plant use; development of educational materials for homeowners, nurseries, landscapers
- 2024 Climate Action Fair (bilingual)





Interconnected Resiliency Network & Resilient Communications



Medford FY 23-24



Learn More:

- Medford Connects Story Map
- Medford Connects Project Resume

AWARD

\$ 416,738

MATCH \$ 139,941

PROJECT TYPE

Planning, Assessments, Capacity Building, & Regulatory Updates

CORE PRINCIPLES DEMONSTRATED

Increasing equitable outcomes for EJ populations and climate-sensitive populations by addressing the root causes of social vulnerability; Building community capacity for climate resilience; Achieving broad and multiple community benefits; Conducting robust community engagement and supporting strong partnerships with EJ populations

- Team of 9 community liaisons (CLs) support city community engagement through on-the-ground outreach, workshops, and community events. Also sit on the city's Climate Equity Council. Network of partners (composed of city staff and CBOs) collaborate on 5 core resilience themes: (1) language access, (2) older adult communication, (3) social-emotional resilience of young children and youth, (4) financial stability, (5) food security CLs also support community engagement activities of network of partners and speak the 4 priority languages (Arabic, Brazilian Portuguese, Haitian Creole, Spanish)
 CLs have hosted 11 community events celebrating the diverse cultures and identities in Medford





Metro Mayors Cool Roofs Project



Metropolitan Area Planning Council FY23/24



Learn more:

Project Website

AWARD

\$88,500

MATCH \$30,000

PROJECT TYPE

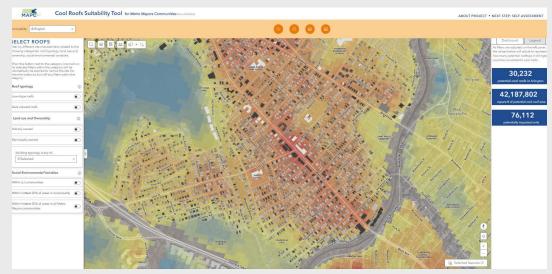
Planning, Assessments, Capacity-Building, and Regulatory Updates

CORE PRINCIPLES **DEMONSTRATED**

Utilizing climate change data for a proactive solution; utilizing regional solutions for regional benefit.

DESCRIPTION

MAPC created a suite of tools and resources to support municipalities and other property owners in installing cool roofs. This includes an educational toolkit, guidance for creating an incentive program, and a procurement template for public buildings, among others. MAPC also developed an online mapping tool for all properties in Metro Mayors communities to assess their suitability for a cool roof.





Chicopee Brook Flood Resilience Improvements



Monson FY23





AWARD

\$295,000.00

PROJECT TYPE

Planning, Assessments, Capacity Building, and Regulatory Updates

CORE PRINCIPLES DEMONSTRATED

Employing nature-based solutions; hydrologic and hydraulic modeling for flood resilience; community outreach and visioning

- Completed flood resilience modeling of the Chicopee Brook corridor to identify optimal strategies for protecting against the impacts of flooding through the implementation of nature-based solutions ranging from rightsizing of culverts to increasing flood capacity through floodplain reconnection and green infrastructure.
- Developed illustrative conceptual plans for key flood resilience projects for priority sites along Chicopee Brook, including the Bunyan Road crossing, Cushman Field, Veterans Field, Bliss Street Dam, and Maple Street crossing
- Modeled proposed conditions under future precipitation and flow conditions to: (1) identify future floodplain impacts, (2) quantify the flood reduction benefits that could be achieved through different combinations of resilience projects, and (3) develop a strategy and sequencing for carrying out the implementation of improvements over time.



Incorporating Climate Resiliency into the Montague Comprehensive Plan



Montague FY23-24



Learn More:

Project Website

AWARD

\$80,000

MATCH \$28,000

PROJECT TYPE

Planning, Assessments, Capacity Building, and Regulatory Updates

CORE PRINCIPLES
DEMONSTRATED

Building community capacity for climate resilience; achieving broad and multiple community benefits.

DESCRIPTION

This project created a long range Comprehensive Plan for the Town of Montague – Five Villages: One Future. This plan incorporates climate change into all aspects of the plan and recommends implementation strategies to increase the town's resiliency.





Building Resilience Across the Charles River Watershed Phase III



Natick FY23-24



Learn More:

Project Website

Charles River Flood Model Results Viewer Map

AWARD

\$333,070

MATCH \$111,000

PROJECT TYPE

Type 1: Planning, Assessments, Capacity Building, and **Regulatory Updates**

CORE PRINCIPLES **DEMONSTRATED**

Utilizing climate change data for a proactive solution

Employing Nature-Based Solutions (NBS)

DESCRIPTION

The goal of the Building Resilience across the Charles River Watershed initiative is to build climate resilience across the watershed by identifying and implementing nature-based solutions that effectively reduce the impacts of precipitation-based flooding.





Kempton Street Corridor Green Infrastructure



New Bedford FY23



Learn More:

- NB Resilient G.I. Tile contains project resources and will be kept up to date
- Public Presentation

AWARD

\$ 161,800

MATCH \$ 53,975

PROJECT TYPE

Design and Permitting

CORE PRINCIPLES
DEMONSTRATED

Furthering a community identified priority action to address climate change impacts and Employing Nature-Based Solutions (NBS)

DESCRIPTION

The Kempton Street G.I. project is located at the beginning of Buttonwood Brook, an impaired resource that runs through New Bedford and Dartmouth before discharge to Apponagansett Bay. New Bedford, Dartmouth, and the Buzzards Bay Coalition are working together to implement a series of natural solutions to stormwater management along the brook.





Conceptual Design of Flood-Resiliency Improvements for Sewer Infrastructure – Town of Oak Bluffs, MA



Oak Bluffs FY23



Learn More:

Oak Bluffs Wastewater Division Webpage

AWARD

\$69,712.50

MATCH \$23,237.50

PROJECT TYPE

Planning, Assessment, Capacity Building, and Regulatory Upgrades

CORE PRINCIPLES
DEMONSTRATED

Utilizing climate change data for a proactive solution; Assessing Nature-Based Solutions

- Established design flood elevations for the Dukes County Avenue Pump Station with consideration for future sea level rise.
- Evaluated alternatives to protect vulnerable sewer infrastructure from design floods and developed conceptual drawings for recommended alternatives.
- Community engagement included public informational meetings



Maillet, Sommes & Morgan Constructed Wetland



Reading FY23-24



Learn More:

Project Website

AWARD

\$2,221,172.23

MATCH \$795,319.34

PROJECT TYPE

Construction & on the ground implementation

CORE PRINCIPLES
DEMONSTRATED

Furthering a community identified priority action; Employing Nature-Based-Solutions; Achieving multiple community and regional benefits

DESCRIPTION

The project proposes to capture and attenuate stormwater impacting the Aberjona River by creating adjacent offline storage areas. The overall objective is to reduce climate related in-land flooding upstream by increasing stormwater storage capacity through the construction of a series of stormwater wetlands that will also provide co-benefits of: stormwater treatment/water quality; improved ecological and stream stability; invasive species removal; and, additional open space and trail development (including ADA access).





Saugus Pines River Vulnerability and Adaptation Study



Revere FY23



Learn More:

Project Website

AWARD

\$154,742.25

MATCH

52,215.00 In-Kind

PROJECT TYPE

Action Grant

CORE PRINCIPLES
DEMONSTRATED

Understand our regional vulnerabilities and risks and develop immediate and long-term risk reduction strategies for current and future conditions using the best available science

DESCRIPTION

In the context of climate change the Saugus Pines River Watershed region including Saugus Revere, Lynn, Malden and Everett are amidst imminent flood impacts.

The flood risk has already been realized with each community experiencing an increased frequency and level of flooding that is breaching and threating neighborhoods and infrastructure.

It is confidently predicted that the conditions will only worsen in the short and long term along the watershed. The project documents the data to validate the risks to vulnerable populations and critical infrastructure. The analysis will be vital to prioritize and formulate regional actions and partnerships towards risk reduction.

As demonstrated in the photo taken in 2018 on Route 107 at the Bridge where Lynn borders Saugus, the risk and dangers associated with flooding must be addressed as a region.





Community Driven Forest Climate Adaptation



Rowe FY23-24



Virtual Forest Center of Northwest Massachusetts

A Climate Resilient Open Space and Recreation Plan for the town of Rowe

AWARD

\$164,450

MATCH \$18,300

PROJECT TYPE

Type 1: Planning, Assessments, Capacity Building and Regulatory Updates

CORE PRINCIPLES DEMONSTRATED

Conducting robust community engagement, utilizing regional solutions towards regional benefit, building community capacity for climate resilience, employing Nature-Based Solutions

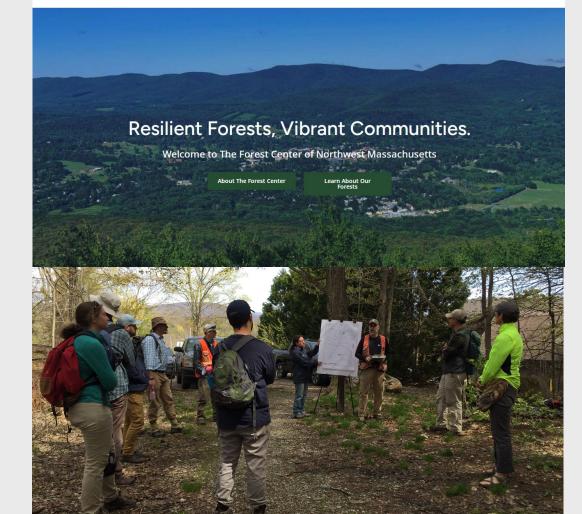
DESCRIPTION

The goal of this project was to deliver climate-smart outcomes and build resilience through community engagement, open space planning, and forest stewardship climate plan implementation. This was achieved via:

- Engaging Indigenous communities
- Climate-smart Open Space Planning
- Hosting Woods Walks
- Development of the Virtual Forest Center
- · Completing forest operational planning
- Conducting baseline monitoring



About ▼ Learn About Our Forests ▼ Caring for Our Forests ▼ Getting Started ▼ Contact



Sherborn's Climate Activation and Resilience Plan – Model for the MetroWest Region



Sherborn FY23



Learn More:

Project Website

AWARD

\$38,145.00

MATCH \$31,522.69

PROJECT TYPE

Community Climate Action and Resilience Plan

CORE PRINCIPLES **DEMONSTRATED**

Furthering a community identified priority action to address climate change impacts; Pursuing innovative, transferable approaches

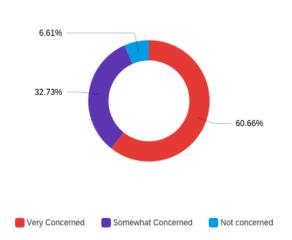
DESCRIPTION

Identification of 10-15 priority measures for mitigating emissions and reducing vulnerabilities to climate change.

Innovative engagement program "Intergenerational Climate Conversations" between High Schools students and older residents foster collaborative actions across climate vulnerable groups



HOW CONCERNED CLIMATE CHANGE



Shrewsbury Municipal Climate Action Plan



Shrewsbury FY23



Learn more:

Climate Action and Resiliency Plan | Shrewsbury, MA (shrewsburyma.gov)

AWARD

\$100,000

MATCH \$33,136

PROJECT TYPE

Climate Action Plan Services

CORE PRINCIPLES
DEMONSTRATED

Committing to monitoring project success and maintaining the project into the future; Building community capacity for climate resilience

- Inventoried the Town's municipal greenhouse gas emissions.
- Reviewed existing climate vulnerability assessments, data, and reports.
- Facilitated engagement with relevant stakeholders through in person and virtual meetings.
- Identified goals, strategies, actions, metrics, and targets to reduce the Town's environmental impact and increase resilience of municipal operations.





Queensville Dam & Buttery Brook Restoration



South Hadley FY23



Learn More:

Project Website

AWARD

\$162,000

MATCH \$54,650

PROJECT TYPE

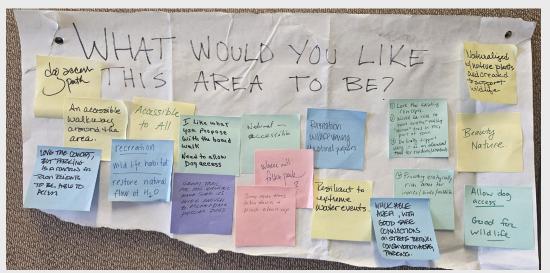
Action Grant Project

CORE PRINCIPLES DEMONSTRATED

Employing Nature-Based Solutions (NBS); Committing to monitoring project success and maintaining the project into the future:

DESCRIPTION

The project will ultimately result in reclassification of the Queensville Dam as non-jurisdictional, based on the removal of the impoundment and reduction of total storage space behind the dam embankment (which cannot be removed since it is coincident with the Route 116 road embankment) to below 15 acre-feet during the 100-year event. This will in turn achieve the Town's goal of reducing the liability of dam maintenance and reduce the associated flooding risks that would result from failure of the dam, which is currently classified as a significant hazard dam.





Stoneham High School Wetlands Restoration



Stoneham FY23-24



Stoneham High School Wetlands Website

AWARD \$108,700

MATCH \$40,000

PROJECT TYPE

Design and Permitting

CORE PRINCIPLES
DEMONSTRATED

Employing Nature-Based Solutions; Utilizing Regional Solutions for Regional Benefit; Achieving Broad and Multiple Community Benefits

DESCRIPTION

The primary project goals were to address localized flooding at Franklin Street, improve water quality to downstream waterbodies, and enhance the site biodiversity for climate resilience. The restoration design incorporates removal of historical trash and debris; modifications to site topography to improve hydrologic connectivity to existing wetlands; removal of significant invasive species; and incorporation of native vegetation. Overall site design includes accessible pathways, trailheads and signage within restored open space with potential for future connections to the Middlesex Fells Reservation.





Stoughton Town-wide Drainage Model, Vulnerability Assessment, and Adaptation Strategies to Mitigate Future Flooding



Stoughton FY23-24



Learn More:

Project Website

AWARD

\$218,000

MATCH \$77,000

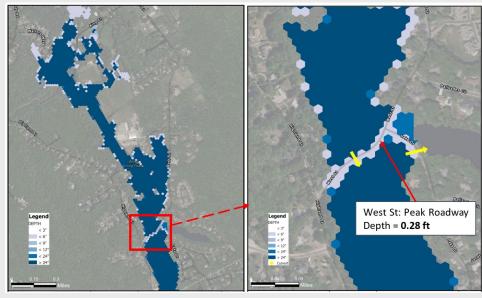
PROJECT TYPE

Planning

CORE PRINCIPLES DEMONSTRATED

Utilizing climate change data for a proactive solution; Conducting robust community engagement

- Created a town-wide flood model to identify flood risk under climate change conditions
- Engaged the community to ground-truth flood model and provide input on next steps
- Proposed flood mitigation options for highest priority flood vulnerabilities in Town



2070 100-year, 24-hour flood results for Ames Long Pond





Flow monitoring and field investigations as part of model development

Stow Acres North Acquisition & Climate Resilience Master Plan



Stow FY23-24



Learn More:

Stow Acres Open Space Recreation and Housing Page

AWARD

\$1,135,000

MATCH \$2,648,318

PROJECT TYPE

Year 1- Construction/On the Ground Implementation

Year 2 – Design and Permitting

CORE PRINCIPLES
DEMONSTRATED

Employing Nature-Based Solutions; Achieving broad and multiple community benefits

DESCRIPTION

When one of Stow's largest undeveloped properties (a golf course) appeared destined for development, the Town worked proactively to create a vision for this 326-acre property that includes a combination of land protection, restoration, and mixed income housing development. The MVP program assisted with land acquisition and preparation of a Climate Resilience Master Plan to serve as a long-term blueprint for restoration and use of this Townowned property.



Manchaug Village Water Resource Resiliency Action Plan



Sutton FY23



Learn More:

- Action Plan
- Project Website Site

AWARD

\$75,000

MATCH \$25,000

PROJECT TYPE

Design & Permitting

CORE PRINCIPLES
DEMONSTRATED

Conducting robust community engagement
Utilize climate change data for a proactive solutions

- Hydrologic & Hydraulic (H&H) Study & detailed field study of the Village of Manchaug and surrounds (4 sub-watersheds)
- Summary of vulnerabilities/problems and formulation of potential solutions
- Multiple public meetings with participation of residents and partner organizations providing knowledge, information, and feedback
- Manchaug Water Resource Resiliency Action Plan: Compilation of all the work completed, including conceptual designs and planning level cost estimates



Home Brew and Whitin Pond Dam Removal



Uxbridge FY23



Learn More:

Project Website

AWARD

\$185,450

PROJECT TYPE

Design and Permitting

CORE PRINCIPLES DEMONSTRATED

Employing Nature-Based Solutions; Increasing Equitable Outcomes for EJ Populations; Achieving Broad and Multiple Community Benefits; Robust Community Engagement

- Conduct feasibility assessment, design, and permitting for removal of Home Brew Dam, a non-jurisdictional dam on a cold-water stream and completely contained on property owned by the Uxbridge water department. Removal will increase aquatic connectivity and reduce vulnerability of the Town's water wells to flooding.
- Conduct preliminary sediment analysis, investigate ownership and title questions, and use a community visioning process and volunteer water chestnut pull to initiate public conversations about risk, resilience, and potential removal of Whitin Pond Dam.





Muddy Brook Watershed Resiliency Master Plan



Ware 23-24



Learn More:

Project Website

AWARD

\$39,590

MATCH \$13,320

PROJECT TYPE

Planning, Assessments, Capacity Building, and Regulatory Updates

CORE PRINCIPLES DEMONSTRATED

Conducting robust community engagement with EJ and other priority populations; Employing Nature-Based Solutions (NBS)

- •Develop a subwatershed plan that characterizes current and future threats to the subwatershed and associated drinking water supplies from climate change and development and create a roadmap for increasing resiliency through identified areas of focus for improvements.
- •Conduct robust public engagement, particularly with Environmental Justice communities within the subwatershed, to assist with identification of vulnerabilities and future actions, and to increase awareness of the importance of maintaining the health of the subwatershed.





Designing a Resilient Chester Brook



Waltham FY23



Learn More:

Waltham Chester Brook Project Website

AWARD

\$143,900

MATCH \$53,600

PROJECT TYPE

Designing a Resilient Chester Brook

CORE PRINCIPLES
DEMONSTRATED

Furthering a community identified priority action to address climate change impacts; Achieving broad and multiple community benefits

DESCRIPTION

Chester Brook causes flooding roughly two to three times per year for the businesses and residents adjacent to the brook along Lexington St and Oakley Ln. This project designed a new flow control structure on Chester Brook to decrease flood volumes and improve fish passage.





Hurld Park Heat-Resilient Park



Woburn FY23-24



Learn More: Project Website

AWARD

\$271,425

MATCH \$108,300

PROJECT TYPE

Type 2: Design and Permitting

CORE PRINCIPLES DEMONSTRATED

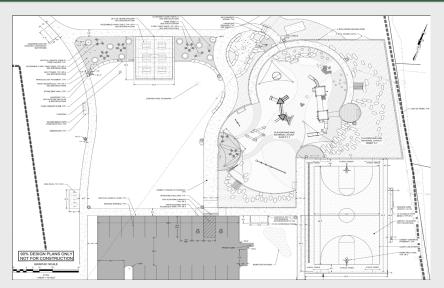
Utilizing regional solutions toward regional benefit; utilizing climate change data for a pro-active

solution

DESCRIPTION

The goal of this project is to advance the design and permitting of the heat-resilient portion of

the Hurld Park.





Wrentham Eagle Dam Removal Phase II



Wrentham FY23



Learn more:

- Charles River Watershed Association Project Website
- Town of Wrentham Project Website

AWARD

\$41,337

MATCH \$13,780

PROJECT TYPE

Design and Permitting

CORE PRINCIPLES
DEMONSTRATED

Furthering a community identified priority action to address climate change impacts; Employing Nature-Based Solutions; Building community capacity for climate resilience; Utilizing climate change data for a proactive solution; utilizing regional solutions for regional benefit

- Additional feasibility assessment and hydraulic and hydrologic modeling of dam removal
- Community and youth engagement
- Engagement with Mashpee Wampanoag Tribe
- MassDOT coordination







Climate Change Vulnerability Assessment and Adaptation Plan



Yarmouth FY23



Learn more:

Project Video

AWARD

\$80,089

MATCH \$32,893

PROJECT TYPE

Planning Assessment

CORE PRINCIPLES
DEMONSTRATED

Furthering a community identified priority action to address climate change, utilizing climate change data for a proactive solution.

DESCRIPTION

Using a climate change vulnerability assessment framework, the Town of Yarmouth evaluated the risks to town owned infrastructure from the impacts of sea level rise and coastal storm surge using the Massachusetts Coast Flood Risk model (MC-FRM). Consequence review and scoring allowed the project team to understand the criticality of each asset, and in concert with the probability of flooding created a ranked list of the most vulnerable assets across the Town. An adaptation plan aimed at reducing coastal flooding risks was developed for the Town.

