

Town of Wareham

Open Space And Recreation Plan

2010 – 2017



FEARING HILL CONSERVATION AREA

Watercolor by Wareham Artist Robert Scott

Town of Wareham
54 Marion Road
Wareham, Massachusetts

Wareham Open Space and Recreation Plan 2010 – 2017

Prepared For: The Town of Wareham, Massachusetts
Prepared By: The Wareham Open Space Committee

Wareham's Open Space Committee thanks the Board of Selectmen, the dedicated employees in the Town offices, departments, and committees who provided data and invaluable input, Elizabeth Pezzoli for her help with the ADA Accessibility Self-Evaluation, and the residents of Wareham for their contributions to this plan.

Town of Wareham
54 Marion Road
Wareham, Massachusetts 02571



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October 14, 2010

Nanette Bergeron
Open Space Committee
28 Agawam Drive
East Wareham, MA 02538

Re: Open Space and Recreation Plan

Dear Ms. Bergeron:

Thank you for submitting Wareham's Open Space and Recreation Plan to this office for review for compliance with the current Open Space and Recreation Plan Requirements. I am pleased to write that the plan is approved. This final approval will allow Wareham to participate in DCS grant rounds through August 2017.

Congratulations on a great job. Please call me at (617) 626-1171 if you have any questions or concerns about the plan.

Sincerely,

A handwritten signature in cursive script that reads "Melissa Cryan".

Melissa Cryan
Grants Manager

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The maps in this document are for illustrative purposes only.
They are not adequate for regulatory interpretation or parcel level analysis.

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Section 1 Plan Summary

This 2010 update to Wareham's Open Space and Recreation Plan provides a foundation to guide future land use policies and actions by examining the Town's need for new or improved conservation areas, recreational facilities, and permanently protected open land. The need to protect open space, upgrade playing fields and playground facilities, safeguard watershed areas, and protect river corridors, ponds, and coastlines is widely recognized by Wareham's residents.

The Town faces serious financial challenges in addressing the diverse needs for land preservation, maintaining recreational facilities, and improving access to the Town's vast array of rivers, ponds, and coastal areas. Unfortunately, since the 2004 Open Space and Recreation Plan, Wareham's Recreation Department incurred severe budget cuts resulting in the loss of staff and severe reduction of recreational programs. The unfortunate loss of this valuable resource places an even greater need for the protection of open space. Protected open space is an integral component of maintaining town character; it provides recreational opportunities, safeguards natural resources, and improves the overall quality of life for all Wareham residents. In this tough economic time, open space acquisition should be continued and, to the extent practical, targeted to encourage efficacious groundwater recharge, stream flow maintenance, and habitat protection.

The Wareham Open Space Committee used a process of analysis, committee consensus, and public survey to establish priority areas for land protection and recreational development. These areas include groundwater protection areas, buffers to coastal waters, rivers and streams, rare species habitat, and areas for outdoor passive recreation including land, water, and coastal access for activities such as fishing, swimming, boating, canoeing, kayaking, hiking, biking, sports, and enjoyment of Wareham's natural beauty.

The Open Space and Recreation Plan reaffirms Wareham's desire to acquire, protect, and preserve open spaces, maintain recreational facilities, develop biking and hiking trail systems, and improve public access and awareness for the Town's natural and recreational resources.

Section 2 Introduction

A. Statement of Purpose

An Open Space and Recreation Plan serves as a stand-alone state approved document to guide the Town in future conservation and recreation opportunities. This Wareham Open Space and Recreation Plan is an update to the 2004 – 2009 Open Space and Recreation Plan. It presents the accomplishments since the last plan and the goals for the next seven years. Wareham is committed to planning for its future. This Open Space and Recreation Plan:

- Encourages land acquisition and conservation restrictions (CR) to increase our protected land for recreation, wildlife habitat, and safeguarding our watershed
- Identifies existing needs and concerns of residents in relation to preserving land and enhancing recreation areas
- Lists specific goals and objectives to advance Wareham's commitment to improve the community
- Creates a Seven Year Action Plan to act as a guide for the future management and development of Open Space and Recreation assets

Since 2004, 490 acres of land in our community have been protected due to the combined efforts of the Town of Wareham, state agencies, and many nonprofit conservation organizations. Community Preservation Act funds were integral to this achievement. The Great Neck Conservation Partnership Project will be completed by the end of 2010. This project connects adjacent areas of protected open space to create over 300 acres of contiguous open space. The Town should pursue every opportunity to acquire open space, whether by gift, charitable contribution, or fee-simple purchase. It is suspected that many residents are not aware of the tenuous nature of existing open space. Public education in this area is important.

Recreational needs have long been considered a priority within the community. Recreation plays an important role in the well-being of Wareham residents. Recreational activity develops confidence, leadership skills, and cooperation among participants. Recreation also helps reduce stress and promotes good health. Since 2004, new baseball, basketball, and soccer facilities were built at the Westfield Recreational Area, improvements were made to the high school running track, tennis courts, and baseball field, new trail signs were installed in Minot Forest, and the trail system in Minot Forest was improved and expanded. The efforts to improve, maintain, and expand recreational opportunities in Wareham must continue.

B. Planning Process and Public Participation

Wareham's Open Space Committee prepared this Plan update and created all of the figures and maps contained in this document. The committee members that contributed to this plan are: Sandra Slavin (Chairperson), Anne Campbell, Donald Hall, Kevin Bartsch, Nanette Bergeron, and Gregory Donahue.

All Open Space Committee meetings are open to the public. The meeting time and place is posted on the Town's website and the meeting place is accessible to all. Every effort was made to involve as many citizens as possible in updating this Plan. At the Town Meeting held on October 26 – 27 2009, attendees were asked to fill out an Open Space and Recreation Plan Questionnaire. This questionnaire was also available at the Town Hall, the Library, the YMCA, and on the Town website. The questionnaire allowed residents to state which open space and recreation goals are important to them, how they currently use open space and recreation areas in Wareham, and voice their concerns and suggestions. An article in the local newspaper expounded on the importance of this survey and the impact the results would have on the priorities set in the 2010 update of Wareham's Open Space and Recreation Plan. A current Open Space and Recreation Plan is required to qualify for a variety of

grants offered by the MA Department of Conservation Services. These grants can be used to acquire conservation and recreation land, and to develop public outdoor recreation facilities.

The survey results indicate:

- Survey respondents identified their highest priority is to preserve the open spaces that protect our water supply and to preserve wildlife habitat, which is closely followed by the desire to preserve waterways, bays, rivers, and ponds.
- There is general satisfaction with recreation facilities for adults but an overwhelming dissatisfaction with the facilities available to teenagers and children ages 1 – 12 years old.
- The most important types of recreation options are beaches, walking trails, protected conservation areas, and bike paths (Wareham does not currently have any bike paths).
- The least requested types of recreation options are BMX parks and skateboard parks but there were several write-ins for the creation of a dog park.
- When asked to choose priorities for the Wareham Open Space and Recreation Plan, most respondents ranked preserving coastal areas, salt marshes, and land along rivers first, followed by reducing the amount of nitrogen that flows into our waterways, which was almost tied with the desire to preserve open space for wildlife habitat and nature trails.

It is clear from the survey response that protecting our water supply and other natural water resources is very important to the residents of Wareham. It is also evident that we need to focus on improving the playgrounds and recreational facilities for the youngest citizens of the Town.

The survey showed that the two most popular beaches are Little Harbor Beach and Onset Beach. Many indicated that there is a lack of parking at most Town beaches and that there is need for facilities to be improved.

Lopes Playground ranked as the most popular recreational area, but 32 percent of survey respondents indicated that many of the playgrounds and recreational facilities such as athletic fields and tennis courts are in need of repair.

The surveys have a recurring theme with over 20 percent of the respondents indicating that they did not know about all of the recreational areas available in Town, did not know where they were located, and would very much like to have information on all Town beaches, playgrounds, recreational facilities, and conservation areas.

The results of the Open Space and Recreation Plan Questionnaire are the basis for several of the Goals and Objectives described in this Plan.

A copy of the survey is included at the end of Section 2.

An Open Space Summit, sponsored by the Wareham Land Trust, was held at Sacred Hearts Retreat Center on Great Neck Road in Wareham on May 16, 2009. The Summit provided a forum for organizations and concerned citizens to review and discuss recent activities concerning open space in the Town of Wareham. Several organizations reported on their recent land acquisitions and provided information on current projects. Priorities for open space were discussed and collaborations renewed. It was a positive event that ended with a tour of the grounds. The Open Space Summit was held at the site of The Great Neck Conservation Partnership Project which, when completed, will protect over 300 acres of open space in Wareham.

There were approximately 50 attendees and the following organizations were represented:

- Coalition of Buzzards Bay
- Massachusetts Audubon Society
- Massachusetts Department of Fish and Game
- Onset Protective League
- The Nature Conservancy
- Trustee of Reservations
- Wareham Board of Selectmen
- Wareham Community Preservation Committee
- Wareham Conservation Commission
- Wareham Finance Committee
- Wareham Historic District Commission
- Wareham Historical Commission
- Wareham Land Trust
- Wareham Minot Forest Committee
- Wareham Open Space Committee
- Wareham Planning Board

In preparing this Open Space and Recreation Plan update, the committee relied on assistance from various Town boards and agencies including the Selectman's Office, the Assessors Office, the Wareham Fire District, the Onset Fire District, the Harbormaster's Office, and others. A process of analysis, committee consensus, and public survey was used to establish the goals and objectives outlined in this document. The data contained in this Plan was obtained from a number of sources, including Massachusetts Division of Fisheries and Wildlife, the Southeastern Regional Planning and Economic Development District, the U.S. Census Bureau, the Commonwealth of Massachusetts, MassGIS, and various Town offices. A complete list of references can be found in Section 11.

C. Enhanced Outreach and Public Participation

The Open Space Committee shared a booth with the Community Pathway Committee at the 2009 Swan Festival. In addition to being on the public transportation route, this well attended celebration was held within one of Wareham's Environmental Justice communities. (For more information on Environmental Justice (EJ) populations, see Section 3C—Population Characteristics.) This was an ideal location to interact with community members, discuss open space and recreation priorities, and ask attendees to complete a survey to help in the planning process.

Notices about the Open Space and Recreation Plan were posted at the Housing Authority, Council on Aging, Onset Preservation League, and the Cape Verdean Cultural Center. Citizens were encouraged to attend committee meetings and/or provide comments in writing or through email. All Open Space Committee meetings are held in a community building on the public transportation route. The president of the Onset Preservation League, the chairperson of the Wareham Housing Authority, and representatives for the Council on Aging and Habitat for Humanity regularly attended Open Space Committee meetings. These stakeholders came to voice the needs and concerns of their constituents, which include residents in subsidized housing, handicapped individuals, persons of color, and the elderly. This valuable input was instrumental in developing the Open Space and Recreation Action Plan.

Members of Open Space Committee addressed the Board of Selectmen on several occasions to clarify the goals and objectives of the plan and to discuss EJ populations. All Board of Selectmen meetings are televised on a Local Community Access television station.

Town of Wareham 2010 – 2017 Open Space and Recreation Plan Questionnaire

The Town of Wareham is in the process of updating its 2004 Open Space and Recreation Plan. An update of the Plan is necessary to qualify for State grant programs for acquisition and protection of open space and for new recreational facilities.

Please voice your priorities by completing this important survey by **November 30, 2009** and **Drop it** off at the Library, Town Hall or **Mail to:** Open Space Committee, Town Hall, 54 Marion Road, Wareham, MA 02571. Surveys are available at the Library, Town Hall, and on the Town website at www.wareham.ma.us. The answers you provide will help to formulate the updated Open Space and Recreation Plan. Thank you for your help!

1. How important is it to you to preserve each of the following in Wareham?

Circle one number for each category.

High	Medium	Low	
1	2	3	Open space for wildlife habitat
1	2	3	Open space for water supply protection
1	2	3	Open space to preserve waterways / bays / rivers / ponds
1	2	3	Buildings/places of historical/architectural interest
1	2	3	Open space for conservation and passive recreation (e.g. trails)
1	2	3	Land and facilities for active recreation (e.g. ball fields, basketball courts)

2. How satisfied are you with the places in Wareham that are available for recreational use by:

Circle one number for each group.

	Very Satisfied	Satisfied	Not Satisfied	No Opinion
Adults	1	2	3	4
Teenagers	1	2	3	4
8 – 12 years old	1	2	3	4
1 - 7 years old	1	2	3	4

3. Which recreation options are most important to you and your family? **Check five.**

<input type="checkbox"/>	Bike Paths	<input type="checkbox"/>	Children Playgrounds
<input type="checkbox"/>	Indoor Recreation Facilities	<input type="checkbox"/>	Swimming Pools
<input type="checkbox"/>	Athletic Fields / Running Tracks	<input type="checkbox"/>	Picnic Areas
<input type="checkbox"/>	Protected Conservation Areas	<input type="checkbox"/>	Neighborhood Parks
<input type="checkbox"/>	Public Boat Access / Ramps	<input type="checkbox"/>	Golf Courses
<input type="checkbox"/>	Tennis Courts	<input type="checkbox"/>	Town Commons Improvements
<input type="checkbox"/>	Walking Trails	<input type="checkbox"/>	Beaches
<input type="checkbox"/>	Wildlife Habitat / Scenic Areas	<input type="checkbox"/>	Basketball Courts
<input type="checkbox"/>	BMX Parks	<input type="checkbox"/>	Skateboard Parks
<input type="checkbox"/>	Other:		

4. What are your priorities for the Wareham Open Space and Recreation Plan? **Check three.**

<input type="checkbox"/>	Acquire beaches for family recreation
<input type="checkbox"/>	Preserve coastal areas, salt marshes, and land along rivers
<input type="checkbox"/>	Acquire land in aquifer watershed to protect our water supply
<input type="checkbox"/>	Acquire land for creation of a bike path or rail trail
<input type="checkbox"/>	Preserve open space for wildlife habitat and nature trails
<input type="checkbox"/>	Improve ball fields, playgrounds, picnic areas, and beach facilities
<input type="checkbox"/>	Reduce the amount of nitrogen that flows into our waterways
<input type="checkbox"/>	Protect buildings/places of historical/architectural interest
<input type="checkbox"/>	Other:

Town of Wareham 2010 – 2017 Open Space and Recreation Plan Questionnaire

5.

Which beaches do you or your family use? Check all that apply.		What reasons discourage you from using a beach? Check all that apply.				
		Cost of Sticker	Inadequate Parking	Poorly Maintained Facilities	Unsafe Area	Unknown Location
<input type="checkbox"/>	Little Harbor Beach (Little Harbor Rd.)					
<input type="checkbox"/>	North Water Street Beach (North Water St.)					
<input type="checkbox"/>	Onset Beach (Onset Ave.)					
<input type="checkbox"/>	Pinehurst Beach (Pinehurst Dr.)					
<input type="checkbox"/>	Shell Point (South Ave.)					
<input type="checkbox"/>	Swifts Beach and Swifts Neck (Shore Rd., Circle Dr.)					

6.

Which fishing and boat launch areas do you or your family use? Check all that apply.		What reasons discourage you from using this area? Check all that apply.				
		Inadequate Parking	Poorly Maintained Facilities	Launch area Obstructed	Unsafe Area	Unknown Location
<input type="checkbox"/>	Besse Park & Piers – no launch area (Main St.)					
<input type="checkbox"/>	Carver Road Courts – no power boats (Carver Rd.)					
<input type="checkbox"/>	Ellis Playground – no power boats (North Blvd.)					
<input type="checkbox"/>	Lyman Reserve – no launch area (Red Brook Rd.)					
<input type="checkbox"/>	Oakdale Playground – no power boats (Apple St.)					
<input type="checkbox"/>	Onset (East Blvd.)					
<input type="checkbox"/>	Route 195 Rest Area					
<input type="checkbox"/>	Swifts Neck Beach (Shore Ave.)					
<input type="checkbox"/>	Tempest Knob Terrace (Oak St.)					
<input type="checkbox"/>	Tremont Nail Complex – no power boats (Elm St.)					
<input type="checkbox"/>	Wareham River Fishing Area – no launch area (Narrows)					
<input type="checkbox"/>	Whitlock's Landing – no power boats (Glen Charlie Rd.)					

Town of Wareham 2010 – 2017 Open Space and Recreation Plan Questionnaire

7.

Which of these recreational areas do you or your family use? Please indicate which activities you enjoy at each facility. Activities with a gray box are not available at that location.							What reasons discourage you from using this recreational area?				
Check all that apply.							Check all that apply.				
Recreational Area / Location	P l a y g r o u n d	B a s k e t b a l l	B a s e b a l l	S o c c e r	T e n n i s	P i c n i c k i n g	Inadequate Parking or Other Facilities	Poorly Maintained Facilities	Inadequate Lighting	Unsafe Area	Unknown Location
Arruda Playground (Marion Rd.)											
Besse Park (Main St.)											
Onset School Playground (Union Ave.)											
Carver Road Courts (Carver Rd.)											
East Wareham Playground (Knowles Ave.)											
Ellis Playground (North Blvd.)											
High School Tennis Courts (Viking Dr.)											
Indian Mound Playground (Shawnee Dr.)											
Lopes Playground (Onset Ave.)											
Oakdale Playground (Apple St.)											
Route 195 Rest Area											
Shangri-la Playground (Restful Lane)											
Swifts Neck Beach Playground (Circle Dr.)											
Sylvester Gardens Playground (Marion Rd.)											
West Wareham Playground (Main St.)											
Westfield (Cataumet Way)											
Weweantic Playground (Hathaway St.)											

Town of Wareham 2010 – 2017 Open Space and Recreation Plan Questionnaire

8.

Which of these natural areas do you or your family use for walks, wildlife viewing, relaxing...? Check all that apply.		What reasons discourage you from using this natural area? Check all that apply.				
		Inadequate Parking	Poorly Maintained Facilities	Inadequate Trails	Unsafe Area	Unknown Location
<input type="checkbox"/>	Bryant Farm (Sandwich Rd., Minot Ave.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Agawam River Pine Barrens (Agawam Rd.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Barker Conservation Area (Stockton Short Cut)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Crooked River Wildlands Trust (Crooked River Rd.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Eldridge and Brown (Shady Lane)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Fearing Hill Conservation Area (Fearing Hill Rd.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Great Neck Road Conservation Area (Great Neck Rd.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	HLM Bay Point (Broad St.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Indian Neck Land Conservation Area (Towhee Rd.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Marks Cove (Shady Lane)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Heron Point (Burgess Point Rd.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Murphy Freedom Cranberry (Indian Neck Rd.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Phillip Weld Forest (Bourne's Point Rd.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Lyman Reserve (Red Brook Rd.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Tweedy and Barnes (Blackmore Pond Rd.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	William Minot Forest (Minot Ave., Stillman Dr., Indian Neck Rd., Crooked River Rd.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

9. Please provide any additional comments or concerns.

Section 3 Community Setting

A. Regional Context

Wareham is located in southeastern Massachusetts in Plymouth County at the head of Buzzards Bay, near the southern end of the Cape Cod Canal. It is bordered by the Town of Rochester to the west, the Town of Middleborough to the northwest, the towns of Carver and Plymouth to the north, the Town of Marion to the south, and the Town of Bourne, which is in Barnstable County, to the east. Wareham is about 17 miles northeast of New Bedford, 16 miles south of Plymouth, 50 miles south of Boston, 35 miles west of Hyannis, and 45 miles east of Providence, Rhode Island.

Several major roads and highways pass through Wareham including Interstate Highways 195 and 495, State Route 25, State Route 28, and U.S. Route 6. This road network is an important regional corridor that connects Wareham to Cape Cod, Boston, New Bedford, and other communities.

Wareham, founded in 1739, is known as “The Gateway to Cape Cod”. Situated at the head of Buzzards Bay, Wareham offers an exceptional location within easy traveling distance to Boston (about an hour away) and Providence, RI (about 45 minutes away). Wareham has 23,940 acres of land, or 37 square miles, with 57 miles of saltwater shoreline enhanced by beaches, estuaries, rivers, and ponds. Being an oceanside community, Wareham enjoys a tourist industry throughout the summer months.

The Town has several rivers including the Weweantic, Wankinco, Agawam, and Wareham Rivers. There are numerous intermittent streams, wetlands, marshes, and cranberry bogs throughout the Town. The cranberry industry depends on the rivers that flow through Wareham and surrounding communities. The cranberry growers of Carver and Wareham share the water resources of the Weweantic River. These communities must communicate and cooperate to ensure that water is available to growers in both communities during all phases of the cranberry growing season and to minimize the inflow of pollutants into the river in Carver that will inevitably pass downstream into Wareham.

The Plymouth-Carver Sole Source Aquifer is Wareham’s primary source of drinking water. The Aquifer, located in eight towns in southeastern Massachusetts, exhibits regional groundwater flow patterns. It is quite vulnerable to contamination. In 2007, seven communities, including Wareham, formed the Plymouth-Carver Sole Source Aquifer Advisory Committee (PCAAC). This Committee developed the Plymouth-Carver Sole Source Aquifer Plan to provide valuable guiding principles to help advise the citizens living and working in the Aquifer region to protect the Aquifer. This regional cooperation promotes the diligence necessary to ensure excellent water quality.

Map 1—Regional Context is located at the end of Section 3.

B. History of the Community

Native Americans, including the Wampanoag, were the first settlers of the Wareham area. It is probable that they lived in coastal areas during the spring and summer then moved inland to less exposed encampments during the winter. The words on the Town seal “Nepinnae Keket” are Wampanoag for ‘summer home’.

The first European settlement in Wareham occurred in the late 17th century near the Agawam Cemetery (c. 1685). An additional settlement was established in South Wareham (Fresh Meadow Village) near the junction of the Weweantic River and Mary’s Pond Road. Scattered homes were established on Cromesett Neck and Great Neck. The Town of Wareham was incorporated on July 20, 1739. Wareham annexed Tihonet from Carver and Plymouth in 1827.

Wareham’s economy before 1800 revolved primarily around agriculture and shipbuilding. Wareham salt pans produced large quantities of salt from 1775 - 1825. The salt yards extended along the coast

between Nobska Point and Onset from which tradition says Onset acquired its early name “Old Pan” from the evaporation pans used in salt manufacture.

From 1775 to 1847, shipbuilding was the dominant local industry. The ships *Pocahontas*, *Jubilee*, *Wareham*, *George Washington*, *Republic*, and a number of smaller vessels for the coastal trade were built here. The lack of available timber and the shallowness of the Wankinco River caused the industry to decline though the latter half of the 19th century. In addition to a substantial coastal trade, Wareham-built vessels engaged in whaling and fishing for cod and mackerel.

The early 19th century saw the addition of the cut nail, hallow-ware, cotton, and paper industries to Wareham’s economic base. For most of the 19th century, Wareham’s economic development was dominated by iron-related industries made possible by the fortuitous combination of excellent waterpower from the Weweantic, Wankinco, and Agawam Rivers, ready access to the 18th century iron skills of interior Plymouth County towns, and a rapidly developing coastal trade in iron ore and products. These factors made Wareham a strong magnet for ironmasters from all over the country.

A hollow ware blast furnace was established on the Weweantic River by 1805, but the nail business, which played a large role in the development of local industries, was not begun until 1819 when Isaac and Jared Pratt arrived from Middleborough with Jesse Reed’s new nail machines. By 1822, I & J Pratt & Company, had built a small rolling mill at the site of the Tremont Nail Complex. At almost the same time, Bartlett Murdock established the Washington Ironworks on the Weweantic River in West Wareham. The peak of the iron industry appears to have been reached in 1855 when 860 men working in 7 to 8 mills produced over \$867,000 worth of nails, hoops, and iron bar.

Cranberry growing became an important industry in the latter half of the 19th century. One of the earliest known bogs was constructed on White Island (c.1860). The Hayden Cranberry Separator Manufacturing Company, a cranberry equipment manufacturer, was formed in 1895. An early example of a cranberry preserving factory was operated by R. C. Randall from 1898 to 1901. Marcus Urann formed the United Cape Cranberry Company in 1907. At that time, 37 cranberry growers were listed in the Town directory. Nine years later, this had increased to 42 growers. The cranberry industry continues to be a significant economic factor in Wareham.

While there had been some resort settlement along the shore in the 1860’s, the impetus for resort development was provided by the Onset Bay Grove Association in 1877. The Association, which was dedicated to the “principles of spiritualism and humanism” created a campground in Onset and sold building lots for summer residences; 150 summer cottages were built during 1883 – 1884. During the early 1900’s, Onset grew rapidly with the construction of hotels, rooming houses, and businesses to attract thousands of summer visitors to the beach

Although Wareham was incorporated in 1739, it was 1900 before the first Town seal appeared. The design is credited to Charles Lincoln Bates, it showed a small sailboat with a jib sail, a land background, the name of the town, and the words “Nepinnae Kekit” meaning ‘summer home’. The seal was redesigned in 1921 by Bates. The sailboat was replaced with an Indian in a canoe. This seal is still in use today.

The first Town Hall, what is known as the Old Town Hall, was built in 1901 and replaced in 1939 by the current Town Hall on Marion Road. Wareham established an official police force in 1903 and in 1917, Elwell Smith was appointed the first year-round chief of police. The first police car was purchased in 1929.

In 1894 residents of Onset created the Onset Water Company, which evolved into the Onset Fire District. The Wareham Fire District was established in 1907. The two fire districts continued to expand but they did not provide services to the entire Town. In the early 1900’s, the Town of Wareham created a Forest Fire and Out of District Fire Department to provide services to the areas of Town not covered by the two fire districts. In 2000, the Town asked the Onset and Wareham Fire

Districts to annex the Out of District areas. The Onset Fire District and the Wareham Fire District now provide services to the entire Town. The Fire Districts are separate governmental bodies not under the care, control, or custody of the Town.

Wareham had a library early in its history; the Wareham Social Library (established in 1798) was Wareham's first lending library with 118 titles. In 1891, the Monday Club started a free library for the Town and by 1899, there were 1,800 books on the shelves. The Wareham Free Library has moved several times and occupied its current location on Marion Road in 1991.

In the early 1930's, inspired by the Wareham Chamber of Commerce, the Town built two fieldstone lighthouses facing each other on opposite sides of Route 28 as symbols to show that Wareham is the 'Gateway to Cape Cod surrounded by the sea'. These stately replicas of real lighthouses that guided ships to a safe harbor were rejuvenated in 1953.

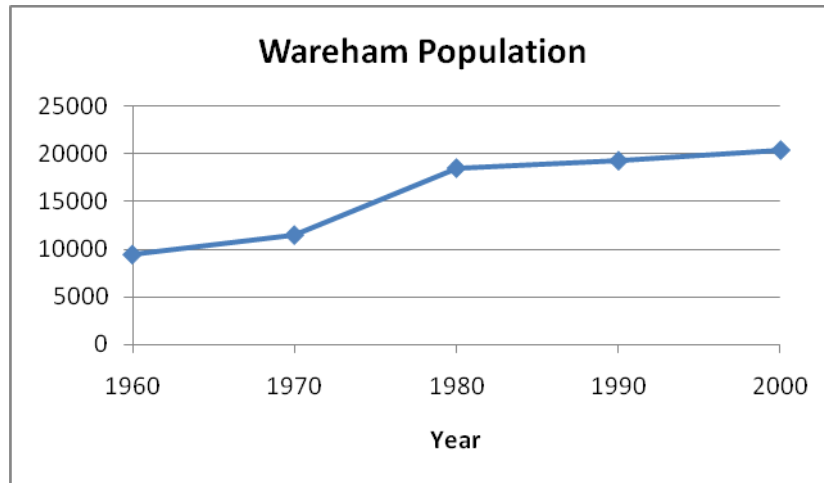
In 1925, Wareham's rivers fell an average of 50-feet from the headwaters to the sea making it feasible to erect many dams. There were more than nine dams on the Agawam, Wankinco, and Weweantic Rivers. Grist mills, saw mills, tanneries, hallow ware manufacturers, cotton mills, paper mills, nail factories, and bog iron producers thrived. In 1928, a textile mill of modern design was erected on the Agawam River and operated for years. By the late 1930's, Wareham's industries had dwindled to the Tremont Nail Company, Cape Cod Shipbuilding, and Anderson's Boat Shop.

Anderson's Boat Shop met its demise when a railroad bridge was constructed across the Narrows, blocking the channel with its supporting pillars. A major effort by Anderson to open the waterway failed, contributing to the eventual failure of his boat shop. The Tremont Nail Company was the oldest continually operating cut nail factory in the United States until it became a division of Acorn Manufacturing and moved to Mansfield, Massachusetts. The Town of Wareham purchased Tremont Nail in 2004. The Cape Cod Shipbuilding Company, founded in 1899, has remained in continuous operation for over 100 years and remains one of the largest boat yards along the Wareham River.

From its early beginnings of farming and shipbuilding in the 1700s, Wareham has evolved a diversified industrial and commercial economy with ample human and natural resources to support continued growth. Wareham offers a distinctive social and economic mix from stately tech industry to traditional boat building.

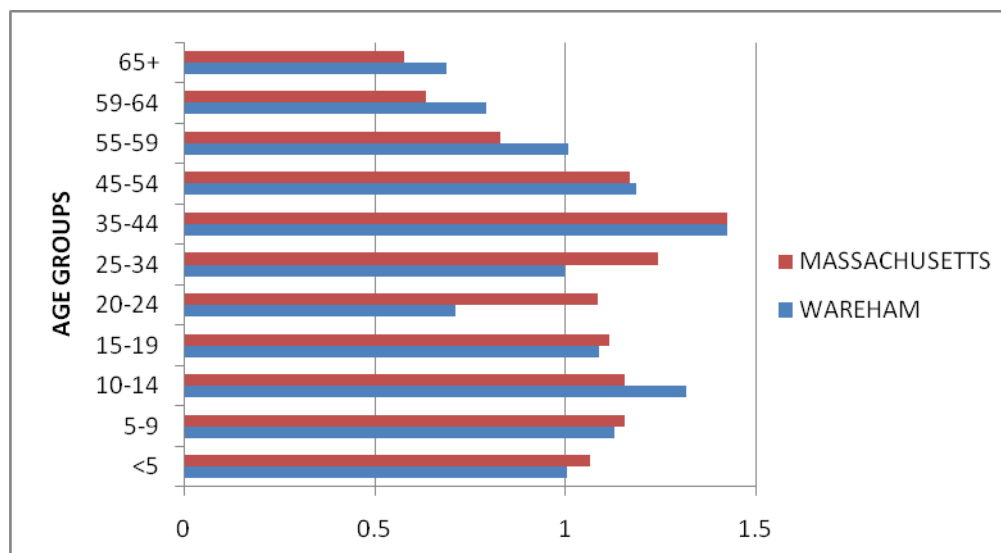
C. Population Characteristics

The 2000 census indicates that Wareham's fulltime (does not include summer residents) population has doubled in the past forty years. Estimates indicate that before the next census in 2010 the population will increase approximately 4.5 percent. The entire region has shown a similar increase in population. Despite the increase in population, Wareham maintains its rural character.



Source: U.S. Census Bureau, 2000 Census

The population distribution of Wareham's residents and how it relates to the rest of Massachusetts is more important than the number of individuals living in Wareham. For example, from 1990 to 2000 there was a 22.9 percent decrease in children under 5 years old (U.S. Census 2000). This decrease is now reflected in Wareham's teenage population and, as the figure below shows, Wareham's population is aging. Wareham is seeing an increase in retirees and a decrease in middle age people. This trend drives down the average household income and has caused a decline in school enrollment since 2000 (MA DOE).



Normalized Population Based on U.S. Census Bureau Data, 2000 Census

Wareham's population has some ethnic diversity — 87.4 percent white, 2.9 percent black or African American, 3.4 percent Hispanic or Latino (U.S. Census 2000). People of many ethnic backgrounds

including Cape Verdean, Irish, Italian, Portuguese, English, and French reside in Wareham. Minorities are integrated into the community; they are not in isolated neighborhoods. Wareham's cultural diversity contributes to its wonderful town character.

Environmental Justice (EJ) is based on the principle that all people have a right to be protected from environmental pollution, and to live in and enjoy a clean and healthful environment. Environmental justice is the equitable distribution of environmental benefits such as open space and recreation areas. Wareham has five Environmental Justice Populations. An Environmental Justice community meets one or more of these criteria:

- Households earn 65% or less of the statewide household median income
- 25% or more of the residents are minority
- 25% or more of the residents are foreign-born
- 25% or more of the residents are lacking English language proficiency

In 2000, Massachusetts' median household income was \$46,947 (Department of Economic Development)—65% of this value is \$30,515. According to the 2000 Census Block Data, Wareham has three Environmental Justice Populations that meet this low-income threshold and two areas where 25% or more of the residents are minority. English proficiency is high in all five areas—three have 97% English proficiency and two have 100% English proficiency.

Map 2—Environmental Justice Populations is located at the end of Section 3.

According to the U.S. Bureau's 2000 census, Wareham's population density is 545 people per square mile; a low to moderate density that varies throughout the Town. West Wareham and Great Neck are less dense with scattered subdivisions. Wareham Center is a residential village of moderate density. Higher density areas include Swifts Beach, Rose Point, Shangri-La, Weweantic Shores, Parkwood Beach, and Onset Village, where most cottages are situated on 0.1-acre lots or smaller.

In 2000, Wareham had 8,200 homes occupied, 450 vacant homes, and 2,020 homes occupied seasonally (U.S. Census 2000). Of the 8,200 homes, 75.6 percent were owner occupied and 24.4 percent were rented. According to the Warren Group, median house prices in Wareham from 2000 – 2008 were among the lowest in the region and much lower than the median price for Massachusetts. This phenomenon, coupled with the residential tax rate of 7.4 percent (MA DOR, 2009), one of the lowest in the region, has made Wareham attractive for development.

Wareham's part-time seasonal residences promote extremely dense communities. Represented by 2,020 summer homes (U.S. Census 2000), this population is important to the demographics and economics of the Town. During the recent housing boom of the past ten years, Wareham has seen many of these summer homes converted into year-round residences. The full significance of this is not yet realized.

In Wareham, the population over the age of 25 without a high school diploma or GED is 17.5 percent; this is much higher than the rest of Plymouth County at 12.4 percent. In Plymouth County, 4.9 percent of the population is below the poverty level, in Massachusetts the average is 6.7 percent, in Wareham, 10.7 percent of the population is below the poverty level. Wareham's median household income is \$40,422, in Plymouth County, it is \$55,615, and for Massachusetts, the median household income is \$50,502 (U.S. Census 2000).

Wareham's working adults are: 45 percent in service and sales, 25.7 percent professional, 16.3 percent transportation, 12.1 percent construction, and 0.9 percent farming and fishing (U.S. Census 2000). According to the Massachusetts Labor and Workforce Development, Wareham's employment from 2001 to 2007 shows rising employment in the retail and service industries. Manufacturing is less significant and is declining, health care and social assistance is a significant employer but shows no growth from 2001 - 2007. Education and public administration is increasing greatly. However, not everyone who lives in Wareham works in Wareham. Only 32 percent of Wareham residents work in

Town; this is down from 37 percent in 1990. Another 21 percent work within the region but 47 percent commute outside the region for employment (CTPP, 2000).

The cranberry industry accounts for nearly all of Wareham's employment in agriculture. The community has more than 1,500 acres of cranberry bogs, making it the second largest cranberry producer in Massachusetts, after the neighboring Town of Carver. The cranberry industry has been depressed for the past several years and great uncertainty exists with respect to the future of the cranberry industry in Wareham. In recent years, the price to cranberries has not covered their production costs and some cranberry growers in Wareham have left their bogs idle or have gone out of business. The largest cranberry grower in Wareham, the A.D. Makepeace Company, has proposed developing thousands of acres of land for both residential and commercial use. The cranberry industry is the dominant holder of land held under MGL Chapter 61. Lands held in "chapter" protection are restricted from development only at the discretion of the owner. Cranberry growers provide much of the open space in Wareham; it would be a devastating loss of green space if the owners of this land opt to leave the program and develop their properties,

D. Growth and Development Patterns

Patterns and Trends

The Town of Wareham has 57 miles of coastline—more than any other community in Massachusetts. Water access has played an important role in Wareham's development from its initial settlement to the present. Early shipbuilding and fisheries industries were directly water-dependent, while salt works and iron products industries were viable because of ready access to water. The availability of water transportation was important for the growth of commerce. Today, most shorefront property remains in private ownership and public access to the shoreline is limited.

The overall development pattern reflects the Town's close ties to the sea. Historically, Wareham developed along main roads and in farming areas. As its waterfront resources became attractive, Wareham developed densely clustered beach communities on small lots long before the benefits of zoning were recognized and before infrastructure was in place to support them. Many beach areas were developed for summer homes, most have small yards with lot sizes smaller than what is allowed under present regulations. Concentrated waterfront development occurred in the Swifts Beach area, Indian Mound Beach, Parkwood, Penehurst, Rose Point, Weweantic Shores, and Briarwood. Dense inland developments include the Shargri-La area, Aga-Pine area, Pine Tree Estates, and Westfield. These communities were designed with little or no public open space. Because many neighborhoods were developed at higher densities than are currently allowed, access to public open space plays an important role in the life of the community.

Historically, the important commercial center of the Town was downtown Wareham. During the early settlement period, various mills were constructed along the Wankinco River, processing cotton, paper, and iron. The need for tools and other iron products made Wareham an important contributor to the early development of southeast Massachusetts. As the Town grew, commerce on Cranberry Highway surpassed the Village center and today dominates the commercial activity of the community. Cranberry Plaza and Wareham Crossing, both on Cranberry Highway, are the centers of commercial activity with many businesses attracting shoppers from a regional market. Lower concentrations of businesses are found in Wareham center, Onset, and on Cranberry Highway west of the industrial parks. In recent years, downtown Wareham and Onset have had difficulty competing with businesses on Cranberry Highway. Both villages have many vacant or underutilized commercial properties. The Onset Bay Association and the Wareham Village Association are dedicated to attracting desirable and appropriate economic activities to the villages.

Prior to the construction of Interstate Routes 495/25 and 195, Cape-bound traffic was funneled through Cranberry Highway. This created enormous traffic congestion in the summer and provided opportunity for numerous retail businesses. The eastern third of the Wareham stretch of the highway was developed to virtual build-out from 1950 through 1970.

This build-out included numerous mobile home parks containing many manufactured homes on small lots with no public open space. The revenue collected from these parks includes the modest personal property tax paid by the homeowner and the real estate tax the park owner pays on the land. This revenue does not begin to cover the cost of Town services for these residents. Additionally, the Commonwealth does not include mobile homes in the Subsidized Housing Inventory (SHI). In 1969, Massachusetts General Law Chapter 40B (a.k.a. the Comprehensive Permit Law) passed by a margin of one vote to help address the shortage of affordable housing by reducing barriers created by local zoning and other restrictions. Only units listed on a town's SHI count towards the 10 percent affordable housing goal for that town. As of September 28, 2009, the Department of Housing and Community Development Chapter 40B Subsidized Housing Inventory shows 701 (8.1 percent) SHI units for Wareham. The efforts to reach the 10 percent SHI promotes proposals to develop housing on small lots in already densely packed neighborhoods. These developments would put further strain on Town services and compete with the objectives described in this Plan to provide more open space and recreational opportunities for Wareham's residents.

The opening of Route 25 removed pass-through traffic from Cranberry Highway in 1987. The local economic impact was disastrous. Traffic was reduced by more than half, causing numerous businesses to fail. Surviving commercial activity became less profitable resulting in poorly maintained properties. Business investment in the strip was almost nonexistent until the Walmart store opened in 1994. In 2007, Wareham Crossing opened on Cranberry Highway just northwest of the interchange of Route 28 and Interstate 195, 5 miles north of Cranberry Plaza. This 45-store plaza has many businesses that attract shoppers from a regional market.

Present conditions indicate that downtown Wareham is still in economic decline. Businesses continue to close or leave the area for better locations and much of the office space in upper levels remains vacant. Steps must be taken in the near future to bring new investment to the downtown.

Infrastructure

Transportation

Wareham's transportation system is comprised of interstate highways, secondary routes, minor streets, and bus service.

Two interstate highways intersect in Wareham. Interstate 195 offers convenient access to New Bedford, Fall River, and Providence. Interstate 495/25 provides access to the greater Boston area to the north and Cape Cod to the south. This makes Wareham a convenient location for commuting to employment in the larger population centers.

Cranberry Highway, a.k.a. U.S. Route 6 and State Route 28, is the most economically significant road in Town. The state road runs 10 miles through Wareham and has a high volume of daily traffic. The stretch from the Route 6/28 merge to the Bourne line is a major commercial strip. Much of the Town's retail businesses are located on the Highway.

Massachusetts Highway has plans to completely reconstruct Route 6/28 from the "split" to the Bourne line. The major change will be a center turning lane to allow for safer left turns. In addition, curbs will be installed along the entire project length. Sidewalks will be constructed on the north side of the street and other traffic safety features will be added. These improvements will increase safety and encourage economic growth to develop in an orderly manner (Comprehensive Community Plan). Route 6 is the major east-west road in Wareham. It is part of Cranberry Highway up to the bypass, where it veers southwest toward Marion. Before Interstate 195 was constructed, Route 6 was the main route to New Bedford, Fall River, and Providence.

Wareham has 180 miles of streets. The Town is responsible for the maintenance of all public streets and performs routine grading on many private streets to maintain access for emergency vehicles.

Great Neck Road and Indian Neck Road are designated as Scenic Roads. This classification provides protection of the roads' rural and scenic character. Any alterations to these roads require approval by the Board of Selectmen and the Commonwealth of Massachusetts.

The Onset-Wareham Link Bus Service (OWL) is sponsored by the Greater Attleboro Taunton Regional Transit Authority (GARTA). OWL makes connections to destinations in Wareham, Onset, Buzzards Bay, Bourne Village, and along Waterhouse Road. GARTA provides public transportation services throughout 26 communities in southeastern Massachusetts. All GARTA transportation is equipped with accessibility for wheelchairs and Dial-A-Ride services are available for persons with disabilities.

Map 3—Road Network is located at the end of Section 3.

Water Supply

The Town of Wareham is served by two water departments—the Wareham Fire District and the Onset Fire District. These water districts provide Town water to most of Wareham; the northern agricultural areas do not have water service. All water provided by Wareham's Water Departments is drawn from the Plymouth-Carver Sole Source Aquifer.

The Wareham Fire District has 8,000 service connections, most are residential with about 10 percent commercial and 2 percent industrial. Wareham's water originates from seven gravel packed wells within the Plymouth-Carver Sole Source Aquifer. Each well is drilled to a depth of 60 – 90 feet. The wells are located in isolated areas of Maple Springs and Seawood Springs and collectively can produce up to 4,800 gallons of water per minute. The water system includes two corrosion control facilities, two water storage towers, 1,200 hydrants, and approximately 200 miles of water main. A new Uni-directional hydrant flushing program optimizes the cleaning of all water mains throughout the distribution system. In 2010, the installation of a mixing system for the two water towers will eliminate the potential of any stagnant water or temperature stratifications in the water storage tanks, thus ensuring better water quality. A third water storage tower will be added in 2010 and a new well in 2013. Also in 2010, the four Maple Springs wells are scheduled to have well cleaning and rehabilitation performed. For corrosion control and pH adjustment, lime (calcium hydroxide) is added to increase the lower raw water pH to between 7.0 and 8.5 for the finished water. Water with a pH of less than 7.0 has a tendency to corrode and dissolve the metal piping it flows through. This can damage pipes and add harmful metals, such as lead and copper, to the water. Sodium hypochlorite is added as a disinfectant for emergency disinfection purposes and during the annual hydrant Uni-directional flushing program.

The Wareham Water District takes an active role in promoting water source protection. They have permanently protected almost 300 acres in the Water Supply Protection Area.

The Onset Fire District has 3,800 service connections; most are residential with some commercial connections. Onset's water originates from four wells within the Plymouth-Carver Sole Source Aquifer. Two of the wells are located off Red Brook Road and two are off Sand Pond Road. Collectively, they can produce up to 1,700 gallons of water per minute. The Sand Pond Road Reservoir is no longer used as a backup water supply. A new well will be completed in 2010-2011. Sodium hydroxide is added to the water at each of the four wells to raise the pH to a level that inhibits lead and copper from leaching into the water system.

Both Water Districts have a mandatory water conservation program. Odd / Even lawn sprinkler restrictions are in effect from May 1st thru September 30th. Even numbered houses are allowed to water on even days and odd numbered houses are allowed to water on odd numbered days. Penalties apply.

Map 4—DEP Zone II Water Supply Protection Areas is located at the end of Section 3.

Sewer Service

Wareham's Water Pollution Control Facility, located on Tony's Lane, provides the treatment of public sewerage from Wareham, Onset, and up to 200,000 gallons per day from Bourne. The facility's tertiary treatment capacity is 1.56 million gallons per day; treated effluent is discharged into the Agawam River. Wareham continues to expand its sewer service to comply with the Commonwealth of Massachusetts' mandate to protect water quality. By July 2010, sewer service will be complete on Linwood / Ladd Avenue, Tempest Knobb, and Parkwood Beach. In the next 15 months, the sewer system will extend to Cromesett Park, Agawam Beach, Oakdale, and Mayflower Ridge. No further sewer expansion projects are planned. Once the mandated system expansion is complete, at the end of 2011, the Water Pollution Control Facility will reach its permitted annual capacity of 110 percent. The last facility upgrade was in 2005; there are no plans for future upgrades or expansions.

Map 5—Water and Sewer Infrastructure is located at the end of Section 3.

Long-term Development Patterns

An evaluation of the patterns of land use and development influence land use policies that determine the nature of a community. A land use inventory identifies past trends, areas of incompatible or conflicting land uses, areas where future growth is likely to occur, areas where growth is suitable, and areas that should be protected from future growth. These factors, as well as others, provide valuable information for future planning. As Table 1 shows, Wareham's 23,940 acres have a diversity of land use.

Map 6— Land Use – 2005 is located at the end of Section 3.

Land Use	Acres	Land Use	Acres
Brushland / Successional	59.6	Non-Forested Wetland	820.9
Cemetery	41.2	Nursery	10.5
Commercial	345.3	Open Land	256.5
Cranberry Bog	2654.2	Orchard	1.8
Cropland	9.2	Participation Recreation	99.5
Forest	11739.7	Pasture	91.5
Forested Wetland	821.4	Powerline / Utility	178.7
Golf Course	113.9	Saltwater Sandy Beach	345.6
High Density Residential	1221.4	Saltwater Wetland	913.4
Industrial	248.1	Transitional	53.4
Junkyard	39.2	Transportation	464.5
Low Density Residential	1107	Urban Public/Institutional	134.8
Marina	11.5	Very Low Density Residential	366.2
Medium Density Residential	1018.8	Waste Disposal	24.7
Mining	21.4	Water	2027.4
Multi-Family Residential	199.7	Water-Based Recreation	23.1

Source: MassGIS, 2005

TABLE 1: LAND USE

Future development in Wareham is primarily regulated under the provisions of the Zoning By-Law. The 2008 Zoning By-Law of the Town of Wareham identifies five residential districts, four village districts that are a mix of residential and commercial, three commercial districts, one industrial district, one institutional district, and two special use districts. There are also two overlay districts designed to preserve Buttermilk Bay and create office park development opportunities. An overlay district is superimposed over one or more established zoning districts; it is an additional zoning requirement that does not change the underlying zoning.

The Zoning By-Law favors development of single-family homes. More than half of Wareham's land area is zoned R-60 or R-130 for development of single-family homes on minimum lot sizes of 60,000 square feet or 130,000 square feet respectively. Much of the land in these districts is agriculture or undeveloped. There is significant potential for large subdivisions. However, large-lot zoning and the presence of numerous wetlands would reduce the overall number of future homes in this area. In areas where Town water and/or sewer service is not available, future development must provide private wells and adequate septic systems.

Map 7—Zoning is located at the end of Section 3.

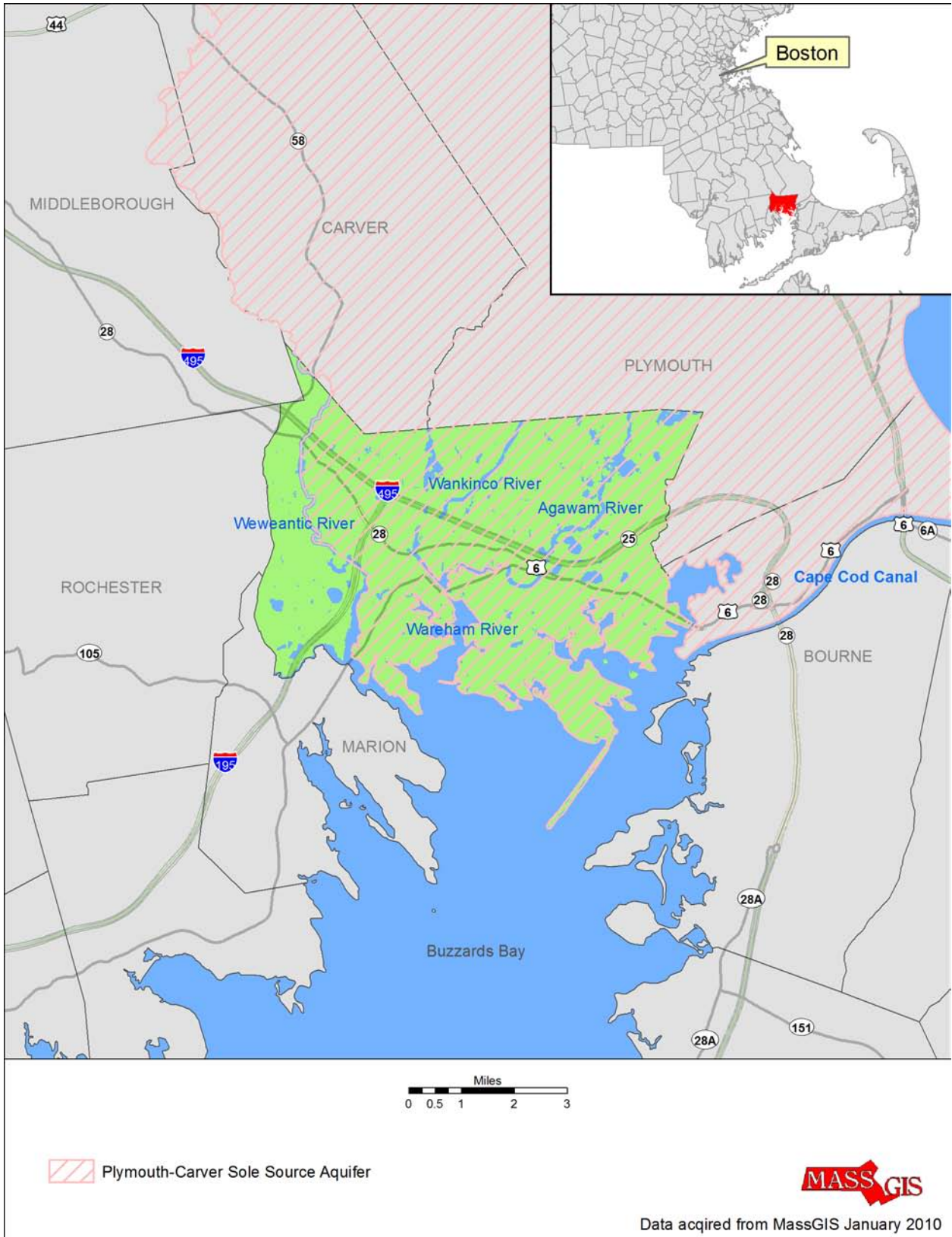
Cranberry growers own large tracts of land in Wareham. The viability of the cranberry industry is an important factor in controlling residential growth. Wareham's dependence on the cranberry industry is precarious and will eventually be threatened by development pressures. The open space provided by cranberry and agricultural land is not permanently protected open space since the resource depends on the continued viability of the industry. Many parcels adjacent to cranberry bogs could be developed without impacting agricultural operations. Areas surrounding cranberry bogs often have water access or water views thus increasing the value of the land for development, which could potentially outweigh its value as farmland. The Town should recognize the importance of maintaining this open space resource and take appropriate steps to maintain it.

Wareham's Comprehensive Community Plan includes a build-out analysis using two methods. A build-out analysis is an estimate of the community's potential growth based on existing zoning and land development regulations. It is a useful tool to assist a community in projecting the amount of residential growth that could occur in the community in the future. This analysis lists 14,371 separate parcels in the Tax Assessors' database—9,000 residential, 600 business, and 469 owned by governmental entities leaving just over 4,300 vacant parcels. It was determined that 2,800 of those parcels may be buildable. In the first analysis, all parcels were matched with their associated zoning requirements, e.g. minimum lot size. The potential for subdividing each parcel into buildable lots was calculated and the size of the parcel was corrected to account for roads and wetlands. This method yielded a potential of 7,767 new lots. In the second analysis, a wetlands coverage was overlaid with the parcel coverage to create a new set of parcel shapes—the parcel, the wetland, and the new "wetland-in-the parcel" polygon. This resulted in a lower build-out estimate yielding a potential of 5,140 new lots.

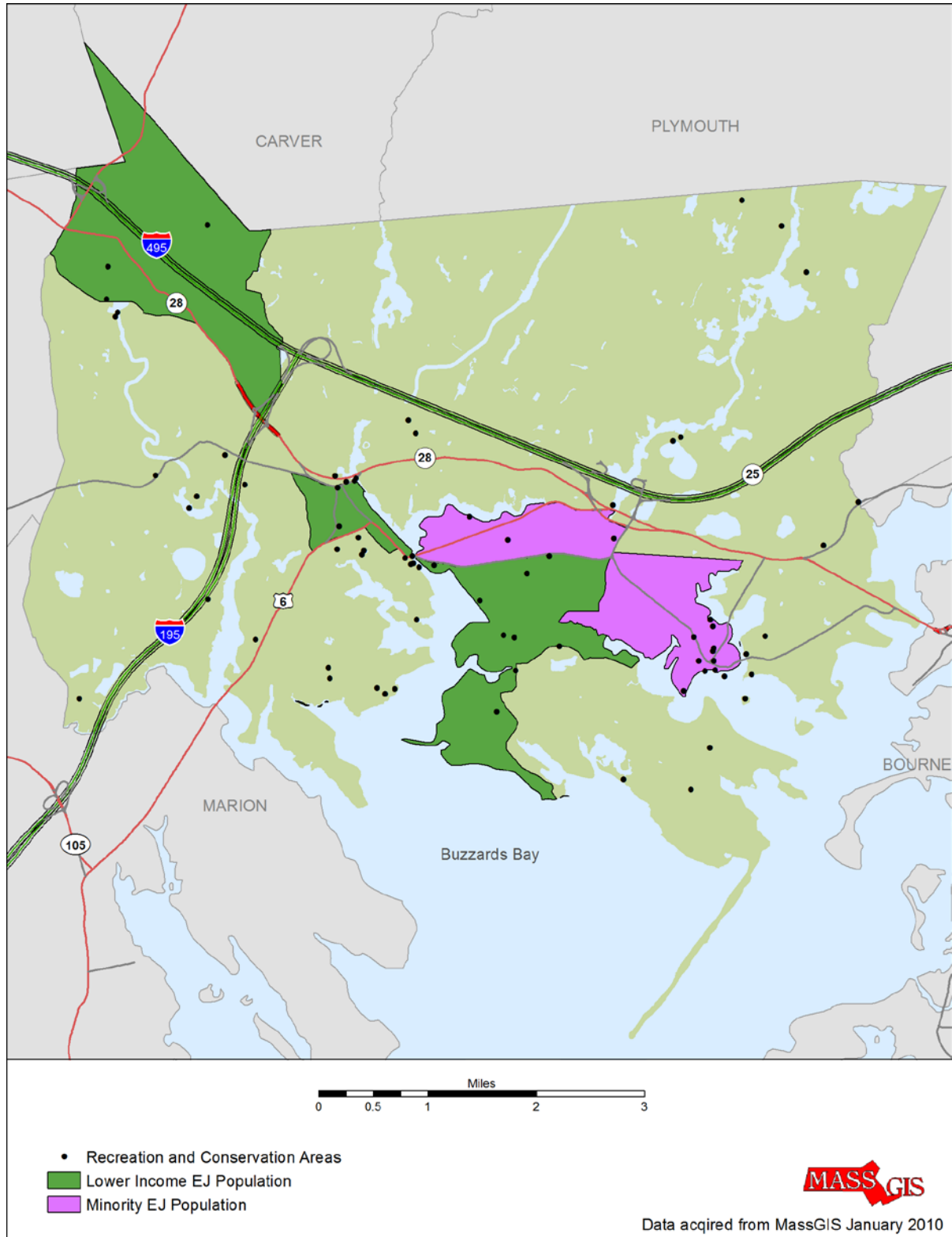
Both methods of build-out analysis provide an imprecise projection of total potential house lots in Wareham. The number of potential building lots does not account for new water and sewer service extensions, which could increase the number of existing buildable lots. Wareham's residential build-out potential could double the current population.

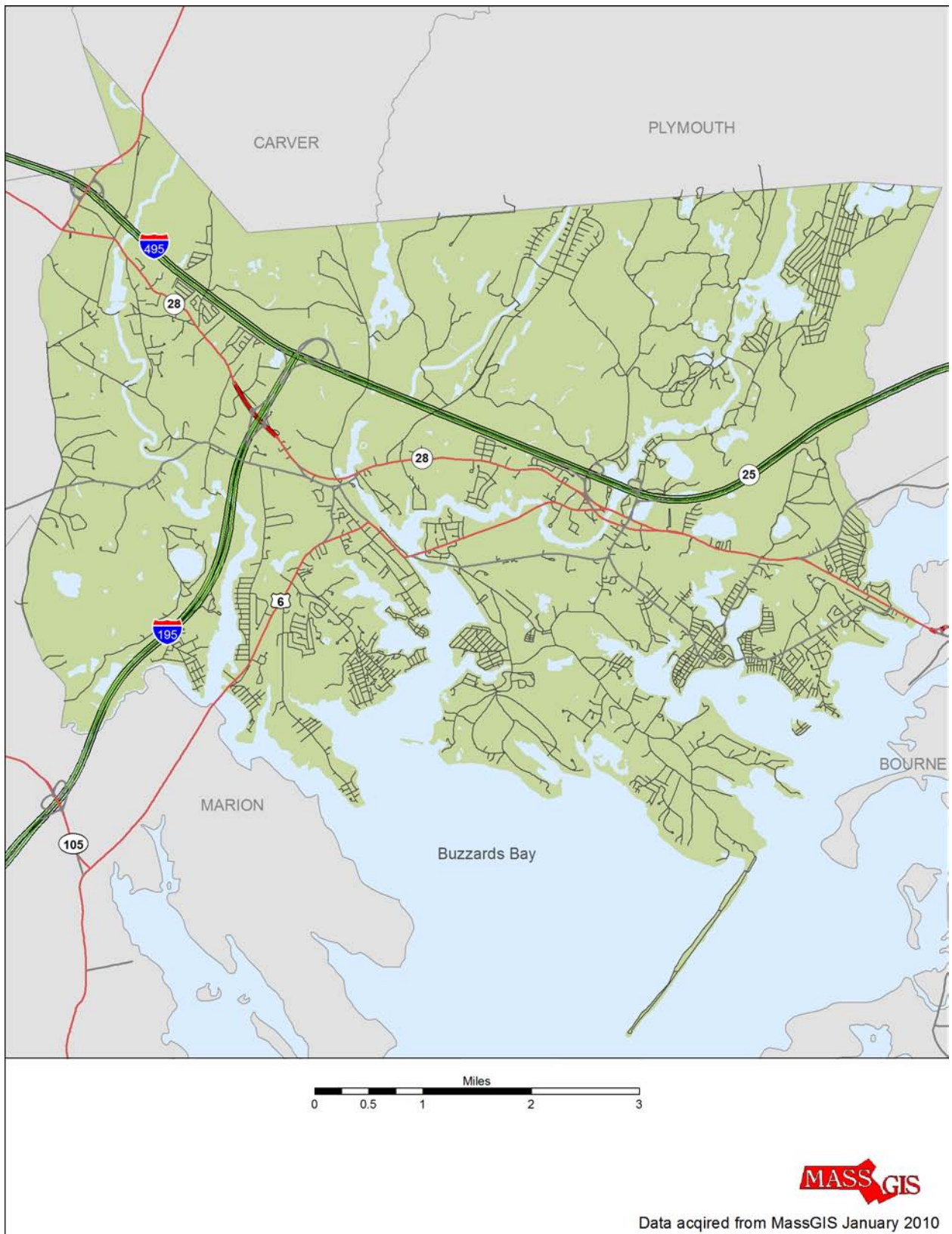
Agricultural interests control nearly 40 percent of the land that could be subdivided in Wareham. If cranberry growers ever decide to sell a significant portion of their lands for development, the character of the community would change significantly. As long as cranberry production remains economically viable, residents will continue to enjoy the open space benefits of the bogs and their associated buffer areas without having to take any action to protect them. The non-essential lands held by the cranberry growers, however, is attractive for residential development.

Studies have shown that residential growth contributes to the demand for local services to a greater degree than any other category of land use. However, responsible and well-planned economic growth is a critical component for a healthy local economy and the overall sustainability of any community, including Wareham. Wareham needs targeted growth and development. Therefore, it is in the best interests of all residents to maintain a viable local cranberry industry and to take action to permanently preserve a reasonable level of open space from development.

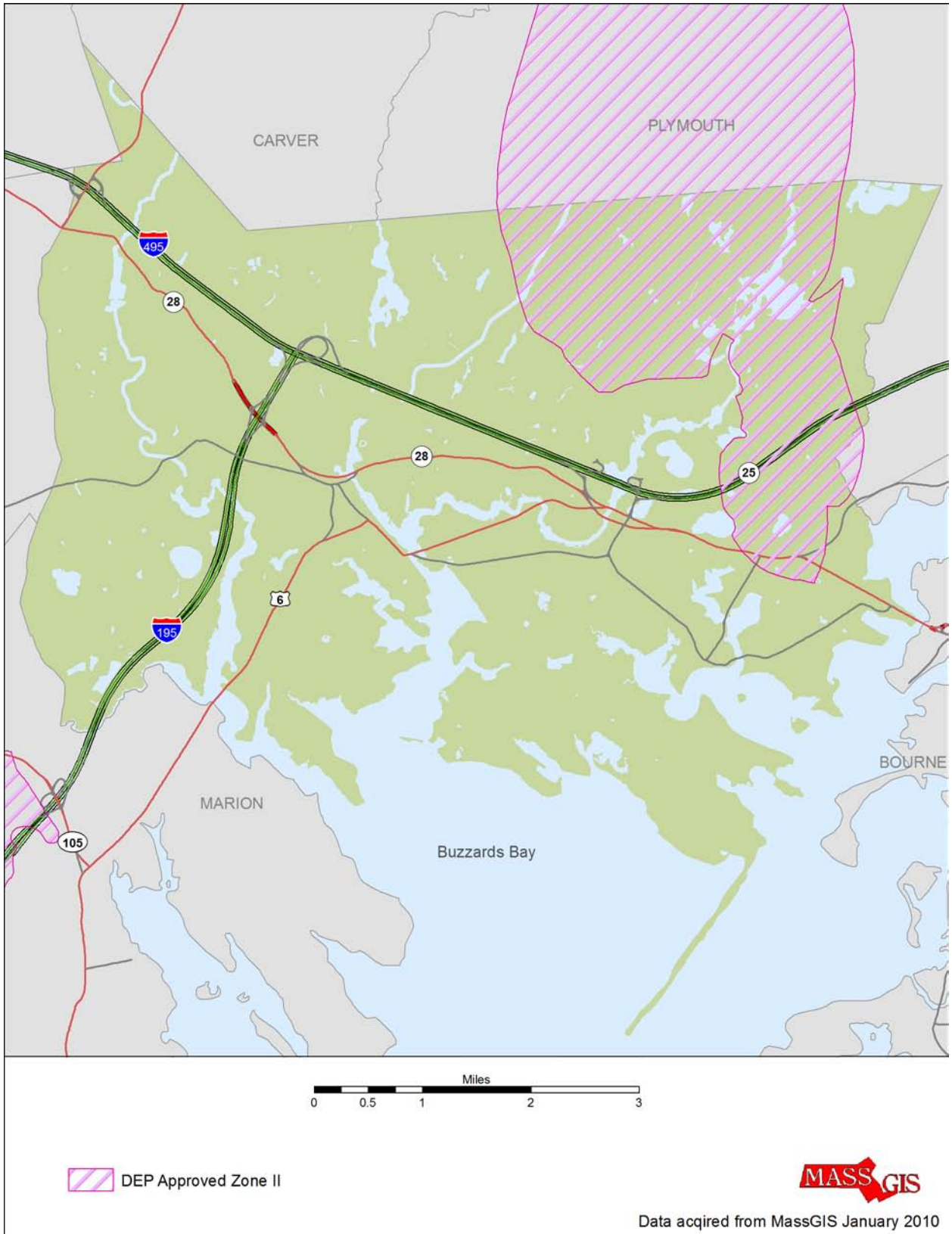


MAP 1—REGIONAL CONTEXT

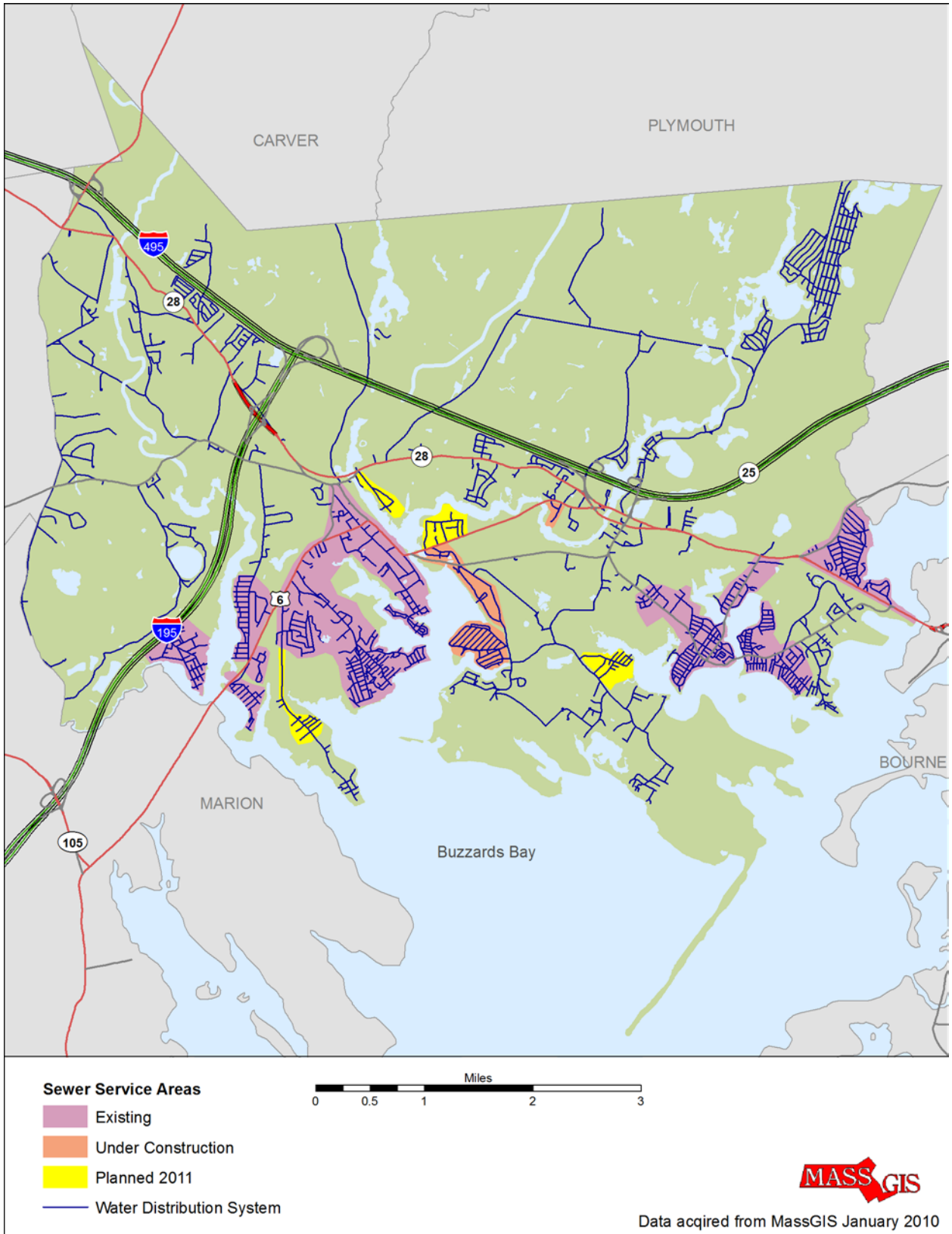
**MAP 2—ENVIRONMENTAL JUSTICE POPULATIONS**

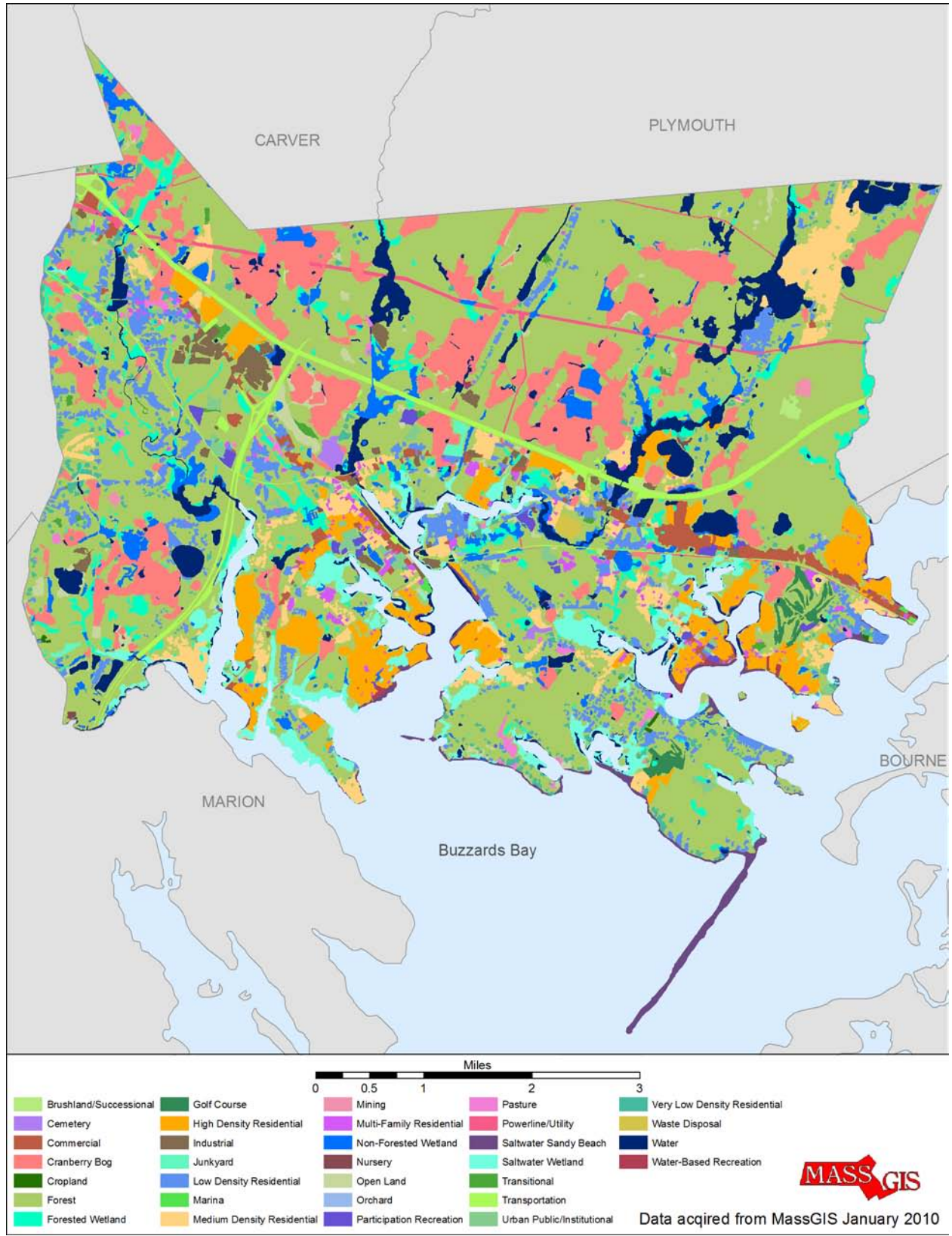


MAP 3—ROAD NETWORK

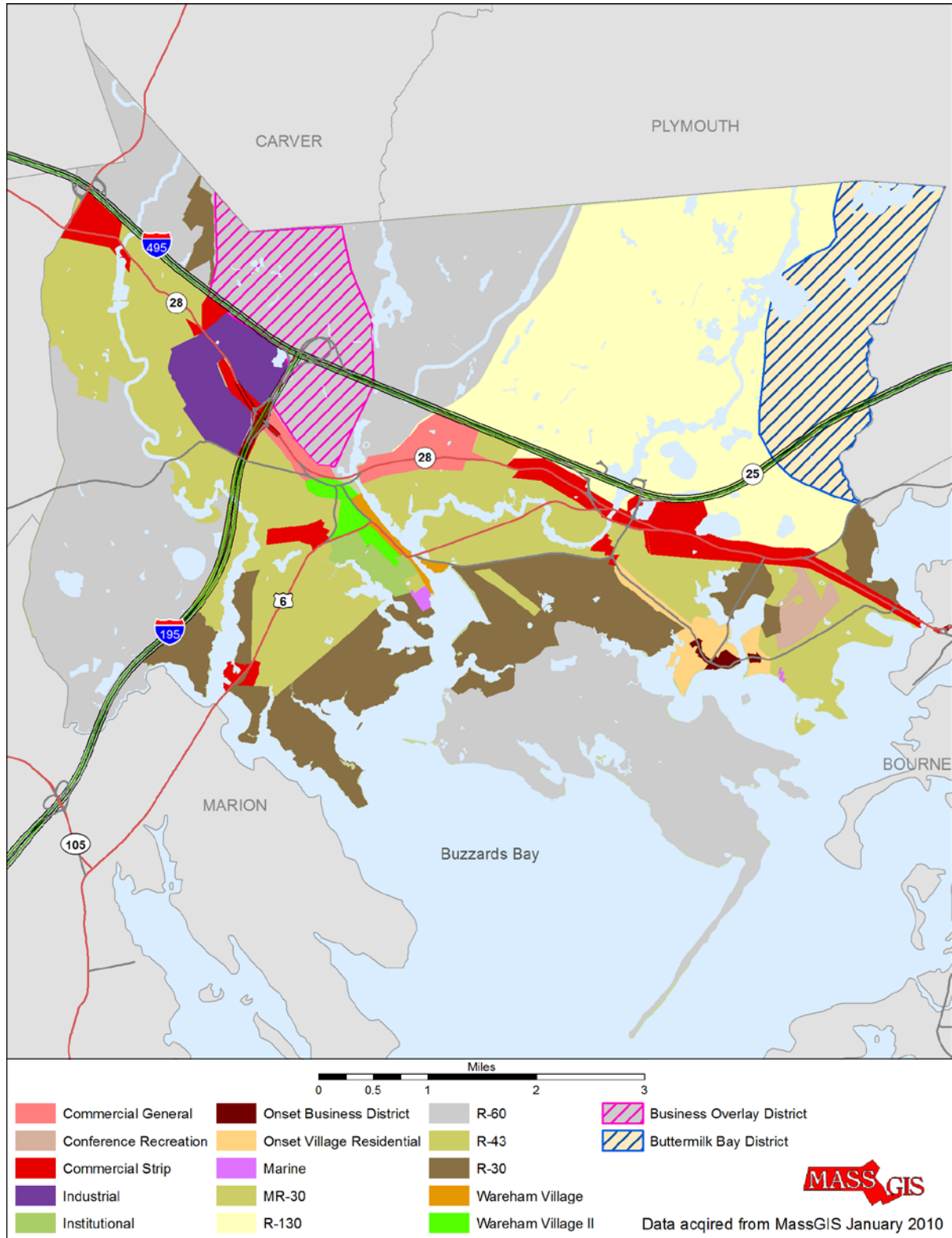


MAP 4—DEP ZONE II WATER SUPPLY PROTECTION AREAS

**MAP 5—WATER AND SEWER INFRASTRUCTURE**



MAP 6—LAND USE - 2005

**MAP 7—ZONING**

Section 4 Environmental Inventory and Analysis

Wareham is located on an outwash plain in a temperate environment. The area has a wealth of natural resources. The natural environment is important not only for ecological purposes but also serves a role in the economy, attracting tourism, and in maintaining commercial and recreational fisheries.

Future growth must be balanced with resource protection to ensure the community continues to be an attractive place to live. As development pressures intensify, so does the potential for destruction or damage to the environment. Sound land management policies are essential to produce development that minimizes adverse impacts on natural systems. Planning is especially critical in coastal and wetland areas where much of the wildlife is fragile and cannot tolerate environmental changes. However, due to the beauty and uniqueness of these areas, they are in the greatest demand for development.

A. Geology, Soils, and Topography

Wareham is on the Coastal Lowlands of Buzzards Bay. Land surfaces are predominantly covered by glacial outwash, a reminder of the time when it was covered by glaciers. The land rises gradually from sea level in the south to an altitude of approximately 70 feet in the north, with a few hills above the 100-foot level. There are 57 miles of saltwater shoreline, including over 30 barrier beaches. Good topsoil in Wareham is sparse, being only a few inches in depth and containing a high percentage of sand. Watersheds in Wareham are defined by the Weweantic, Wareham, and Agawam Rivers. The Town has moderate topographic relief with extensive low-lying areas suitable for bogs and man-made ponds.

Nearly all of Wareham is located in the Carver general soil association. Wareham is predominantly flat with well-drained soils although poorly drained soils occur in low areas. There are numerous small ponds. Some of these ponds were converted to cranberry bogs and some, over time, became swamps. Other ponds remain today and provide recreation areas for swimming, boating, and fishing. About 23 percent of Wareham's total land area is made up of wetlands or cranberry bogs. These areas contain hydric soils. A hydric soil is one of the indicators for a regulated wetland and have constraints for building and other activities. Aside from the wetlands, which are ideal for cranberries and blueberries, development of the land for agricultural use is limited.

Map 8—Hydric Soils is located at the end of Section 4.

Map 9—Topography located at the end of Section 4.

Bedrock Geology

The type of bedrock has a role in chemical and physical properties associated with the development of the soils within the region. The type and depth of bedrock also influences water movement and availability, construction site limitations, and plant growth. The bedrock in Wareham consists of crystalline rocks (igneous and metamorphic rocks from the late Proterozoic and Paleozoic formed 2,500,000,000 to 248,000,000 years ago). The crystalline rocks are buried 100 to 300 feet below the surface by glacial deposits.

Surficial Geology

The glaciers of the great ice ages deposited the parent material that formed the local soils. Glacial till and fluvial deposits are the two dominant types of glacial deposits that occur in Wareham. Till is unsorted, unstratified material that consists of a heterogeneous mixture of clay to boulder size particles. Soils developed in glacial till have a high percentage of surface and subsurface gravel to boulder size rock fragments. The upland soils are capped with a mantle of sand to silty soil textures. The melting ice from retreating glaciers provided huge amounts of water, which left outwash deposits of stratified sand and gravel sediments hundreds of feet thick. These outwash deposits are important aquifer recharge areas, often are prime farmland areas, and commercially important sources of sand

and gravel. The outwash plains are “pitted” with kettle holes that were formed by blocks of ice (detached from the retreating glaciers) that were buried in the sediment for many years until they melted, leaving a depression. If the kettle hole was deep enough to intercept the water table, it formed a kettle pond such as Charge Pond. Some of the kettle ponds eventually filled with organic sediments forming bogs. Many of these bogs are used for cranberry production.

Map 10—Surficial Geology is located at the end of Section 4.

B. Landscape Character

Wareham has a varied landscape including forested land, bogs that are used extensively for growing cranberries, and seaside marshes. A special attribute of the Town is its coastal location with fine beaches and excellent small boat harbors both in Onset Bay and at the mouth of the Wareham River. These assets provide a desirable spot for the residents to call home and an area that tourists enjoy. As Wareham’s population increases, through new development and through the transformation of summer cottages into year-round homes, it is necessary to ensure that over-development and over-use does not destroy our fragile coastal environment.

The Wareham River once enjoyed the distinction of being the last spot north of the Chesapeake Bay where oyster spat grew naturally. Unfortunately, pollution has robbed us of that distinction. Our shellfish industry has suffered. Now it is common for our beaches and shellfish areas to be closed several times during the summer due to pollution.

Most of Wareham’s beaches are privately owned; public access is limited. A notable exception is in Onset, where the Massachusetts Supreme Judicial Court granted the beaches to be held only for public purposes under the so-called “1916 Decree”. Much of Onset’s shore is protected as open space under the terms of that ruling. Although Wareham has less town-owned waterfront than other towns on Buzzards Bay, Wareham provides more public access to its coastal resources than any of the surrounding communities. This Open Space and Recreation Plan strongly recommends protecting our undeveloped coastline and if the opportunity arises, acquire privately owned land and maintain it as open space for the benefit of all.

C. Water Resources

Surface Water

The Town of Wareham has 57 miles of coastline, more than any other town in the Commonwealth of Massachusetts. Wareham’s beaches attract tourists and are one of many reasons to call this area home. In 2009, an Ecological Evaluation of Natural Resources was completed for Swifts Beach (BSC, 2009). It documents flora found in the salt marsh, coastal beach, and coastal dune areas. Birds, mammals, shellfish, and crustaceans were also inventoried. The study provides recommendations to protect and enhance the area. It serves as a reminder that we must be vigilant and maintain stewardship of our water resources.

Three major river systems flow through the Town and empty onto Buzzards Bay. The drainage area for the Wareham, Weweantic, and Sippican River systems includes land in Middleborough, Carver, Rochester, and Wareham. Much of this area has been extensively developed for cranberry bogs.

The Wareham River Basin is made up of the Wankinco and Agawam Rivers. These rivers originate in Myles Standish State Forest, flow southward through a series of ponds, bogs, and swamps, and then join to form the Wareham River. The Wareham River Basin drains approximately 29,795 acres.

The Weweantic and Sippican Rivers, along with their tributaries, drain 55,438 acres. The Weweantic River and the Sippican River tributaries include Beaverdam Creek, Cohackett Brook, Crane Brook, and Patterson Brook.

The meandering coastline creates numerous coves, bays, rivers, and estuaries. Onset Harbor, located in the eastern most part of Wareham, has a drainage basin of 3,240 acres and is the largest

and most important of the local water bodies. Other smaller water bodies include Mark's Cove, Bourne Cove, Butler Cove, Broad Cove, Shell Point Bay, Muddy Cover, Bass Cover, Widows Cove, Sunset Cove, Little Harbor, Buttermilk Bay, the Broad Marsh River area, the Crooked River, and the East River.

Map 11—Water Resources is located at the end of Section 4.

Outstanding Resource Waters (ORW) are designated under the Massachusetts Surface Water Quality Standards of 2007. "Certain waters shall be designated for protection under this provision. Waters that constitute an outstanding resource as determined by their outstanding socioeconomic, recreational, ecological and / or aesthetic value may be designated as ORWs. The quality of these waters shall be protected and maintained." (Source: 314 CMR) In Wareham, the 261-acre Sand Pond Reservoir Watershed is designated as an ORW.

Natural Heritage and Endangered Species Program (NHESP) certified vernal pools are designated as Class B Outstanding Resource Waters. Vernal pools are unique wildlife habitat best known for the amphibians and invertebrate animals that use them to breed. The NHESP certifies vernal pools that are documented by citizens. Finding vernal pools is the first step for protection. As of March 2009, Wareham has three certified vernal pools. A greater effort must be made to certify more vernal pools to prevent their destruction due to development.

Map 12—Outstanding Resource Waters is located at the end of Section 4.

The Town's ponds, rivers, and streams are used extensively for recreational activities such as boating, fishing, swimming, bird watching, kayaking, and canoeing. Wareham has numerous freshwater ponds, many greater than ten acres. Two ponds are designated by NHESP as Natural Communities. Spectacle Pond, 42-acres, and Bartlett Pond, 11-acres, are designated as large Coastal Plain Pondshores. The water level changes with the water table, typically leaving the shoreline exposed in summer where many rare species grow. These areas are threatened by water drawdown (wells), development, and trampling from heavy recreational use.

Other NHESP Natural Communities include an area adjacent to the Agawam River (near Depot Street), which is an example of a Freshwater Tidal Marsh. This 12-acre marsh is in fairly good condition despite having minimal buffering provided by naturally vegetated land. A 4.5-acre area along the Sippican River near Blackmore Pond Road is an Estuarine Intertidal Brackish Tidal Marsh. It is a small area, not well buffered, but it does have some unusual native plant species as well as some exotic invasive species. Invasive species such as *Phragmites australis* and *Lythrum salicaria*, as well as polluted runoff can threaten these communities.

Map 13—NHESP Natural Communities is located at the end of Section 4.

Salt Marshes

Wareham has approximately 900 acres of salt marshes. Salt marshes are coastal wetlands rich in marine life. They are important for many reasons. Salt marsh systems provide nursery areas for fish, shellfish, and crustaceans. Hidden within the tangle of salt marsh plants are animals in various stages of life. The plants that grow in salt marshes have extensive root systems that enable them to withstand brief storm surges, buffering the impact on upland areas. Salt marshes also act as filters. Tidal creeks meander through the marshes transporting valuable nutrients as well as pollutants from upland development. Salt marshes can absorb, or trap, some of these pollutants, reducing the pollutant load entering estuaries. Salt marshes also prevent sediments from washing offshore, often creating more land on which the salt marshes can expand. Many water birds depend on salt marshes as habitat area. Broad Marsh, approximately 95 acres, is the largest single expanse of salt marsh in Wareham. Salt marshes are an important resource and further protection efforts are advantageous.

Barrier Beaches

The Massachusetts Coastal Zone Management defines a barrier beach as a narrow low-lying strip of land that generally consists of coastal beaches and coastal dunes extending parallel to the trend of the coast; it usually protects nutrient-rich areas behind it. The Town of Wareham has over 30 federal or state designated barrier beaches totaling approximately 59 acres. Most of these barrier beaches are bay barriers with the landward area being a marsh or wetland system. Development has occurred on Swifts Neck, a barrier beach in the Hamilton Beach area. Development does not alter the designation as a barrier beach. The Commonwealth of Massachusetts discourages development from occurring on barrier beaches because of their sensitive nature, their importance for flood damage abatement, and their value as wildlife habitat.

Map 14— Salt Marshes and Barrier Beaches is located at the end of Section 4.

Flood Hazard Areas

Wareham is a low-lying coastal town that is subject to flooding. The Federal Emergency Management Agency (FEMA) designates the land area covered by the floodwaters of the base flood as a Special Flood Hazard Area (SFHA) on the National Flood Insurance Program (NFIP) maps. The SFHA 100-year flood zones A, AE, and VE are present in Wareham. These are the areas where the NFIP's floodplain management regulations must be enforced and the area where the mandatory purchase of flood insurance may apply. According to FEMA, Wareham has over 4,000 acres in the 100-year flood plain (SFHA Zones A and AE), about 1,000 acres in the 100-year flood zone with velocity hazard (SFHA Zone VE), and over 2,000 acres in the 500-year flood plain (Zone X-500).

Velocity zones, where the most damage occurs during coastal storm events, are of particular concern. Several velocity zone areas in Wareham are developed, including Swifts Beach, Cromesett Point, and Onset Island. In 2001 Wareham adopted a bylaw preventing further development in these areas.

Map 15—Flood Hazard Areas is located at the end of Section 4.

Plymouth-Carver Aquifer

The Plymouth-Carver Sole Source Aquifer is a 199 square mile aquifer located in eight towns in southeastern Massachusetts, primarily in Plymouth County. It includes the entire area of the Town of Plymouth, Bourne north of the Cape Cod Canal, a small portion of Sandwich, most of the Towns of Carver and Wareham, substantial portions of Kinston and Plympton, and a small section of the Town of Middleborough. In Wareham, Buzzards Bay forms the southern border and the Weweantic River forms the southwestern border. The Aquifer is the primary source of the public and private water supply for the communities located upon it and is one of the largest designated aquifers in New England.

The unconsolidated stratified glacial deposits that form the aquifer were deposited during the last retreat of glacial ice about 15,000 years ago. These deposits are saturated with water fed by direct infiltration of precipitation (the aquifer recharge). The groundwater table elevations range from approximately sea level to approximately 125 feet at interior groundwater highs, with the maximum saturated thickness of more than 160 feet at some locations. The coarse nature of the deposits results in very low surface runoff and high infiltration rates. There is an estimated 540 billion gallons of water stored within the aquifer.

The Plymouth-Carver Aquifer is quite vulnerable to contamination. Because of its highly permeable and transmissive character, and large size granular materials, groundwater contaminants can quickly travel long distances and affect a large area. The recharge area is characterized by moderate relief. Activities occurring in the upland areas can have direct impact on groundwater quality in the rest of the Aquifer. The present quality of the water from the Aquifer is characterized as good to excellent. Municipal supply wells in the Aquifer area have been affected by relatively few instances of major

contamination. There have been several instances of local contamination at several places in the Aquifer.

Wareham has 20,238 acres located in the Plymouth-Carver Aquifer, which is 84.4 percent of the Town (Fuss & O'Neill 2007). Both the Wareham Fire District and the Onset Fire District use the Aquifer as their main source of water. The well fields for both districts are on protected land. Wareham's zoning helps to protect the groundwater resources. Diligence must be exercised to ensure that the water quality of the Aquifer does not degrade. Development creates impervious surface (e.g. roads) that increase runoff and prevents groundwater recharge.

The Plymouth-Carver Aquifer exhibits regional groundwater flow patterns. Awareness and protection of this vulnerable resource is the responsibility of all the towns that share it, including Wareham. In 2007, the Massachusetts Executive Office of Energy and Environmental Affairs coordinated the creation of the Plymouth-Carver Sole Source Aquifer Advisory Committee (PCAAC). Delegates from the towns of Bourne, Carver, Kingston, Middleborough, Plymouth, Plympton, and Wareham formed the committee and contributed time and effort to the creation of the Plymouth-Carver Sole Source Aquifer Plan. This Plan provides many valuable guiding principles to help advise the citizens living and working in the Aquifer region on how to protect the Plymouth-Carver Sole Source Aquifer.

Map 16—Plymouth-Carver Sole Source Aquifer is located at the end of Section 4.

D. Vegetation

Forest, wetland, and brushland / successional areas cover approximately 60 percent of Wareham's 23,940 acres; this does not include cranberry bogs (source: MassGIS 2005 Land Use Data; see Table 1: Land Use in Section 3D, and Map 6—Land Use – 2005 at the end of Section 3). Forested land and open space are an important aspect of the rural character valued by Wareham's residents.

Wareham recognizes the importance of public shade trees—trees in parks, Town-owned cemeteries, the Town Commons, and within the road right-of-ways. The preservation of existing large trees is encouraged; only dead trees that pose a threat to pedestrians or property are removed. The Town By-Laws require a landscape buffer strip between potentially incompatible land uses. Buffers must be placed along the sideline of roadways, sidewalks, utility easements, and internal streets to minimize and mitigate potential negative impacts such as noise, stormwater runoff, and air pollution. Buffers must include native and naturalized shade trees and shrubs. Planting a row of native trees with a shade-providing canopy is desirable along the primary street frontage. Properly vegetated and maintained landscaped buffers serve to enhance and preserve the rural and visual character of Wareham.

Wareham's hardwood forests consist of scarlet and black oak, sugar and red maple, white ash, American beech, and black gum. The softwoods include Eastern hemlock, Atlantic white cedar, pitch pine, and white pine. The only commercially important wood is white pine. The forest understory is composed of arrowwood, spicebush, greenbrier, wild grape, wintergreen, partridge berry, pipsissewa, wild rose, sheep laurel, inkberry, sassafras, beachplum, huckleberry, blueberry, bayberry, witch hazel, blackberry, sarsaparilla, club moss, and salt spray rose. In the spring, lady slippers, star flowers, and trailing arbutus (mayflowers) are abundant on the forest floor. The forest provides watershed land for our well fields as well as hiking and nature viewing, and in some of the larger forested areas, hunting.

A 1,483-acre pitch pine-scrub oak community in northeast Wareham is part of almost 17,000-acres designated by NHESP as a Natural Community. This Pitch Pine-Scrub Oak Community is the largest of its kind remaining in the northeast. Many other rare community types occur within it, as well as many state-endangered insects; aquatic community types are not included. The NHESP Natural Communities map represents the extent of this natural community in Wareham

Map 13—NHESP Natural Communities located at the end of Section 4.

A large area of Wareham is classified as wetlands. While this is primarily open water, it also includes a nearly equal amount of freshwater and saltwater wetlands. The freshwater wetlands are varied and include shrub swamps, shallow and deep marshes, and seasonally flooded flats. The vegetation is varied. Shrub swamps commonly contain alder, buttonbush, dogwood, willow, and sedges. Shallow marshes generally contain emergent vegetation such as cattails, bulrushes, barreed, pickerweed, and arrowhead, in addition to grasses, sedges, water lilies, and the yellow cow lily. Saltwater wetlands are mostly salt meadows, which support cordgrass, saltgrass, and black rush.

Agricultural land in Wareham is primarily used for growing cranberries. Thousands of acres occupied by cranberry farms are the most notable factor in Wareham's rural character. On average, every planted acre of cranberries is supported by approximately four acres of surrounding wetlands and uplands. This acreage provides open space, wildlife habitat, and groundwater recharge. In recent years, changes in the economics in production of cranberries have put pressure on landowners to consider more lucrative development opportunities. Development in the region has been increasing steadily (Fuss & O'Neill 2007).

The Natural Heritage and Endangered Species Program, which is part of the Massachusetts Division of Fisheries and Wildlife, lists 259 species of native plants that are officially listed as endangered, threatened, or species of concern in Massachusetts, 19 of these species are found in Wareham (current as of August 2008). Table 3, located at the end of Section E, is a list of MESA (Massachusetts Endangered Species Act) and Federal Status for Rare Species in Wareham.

E. Fisheries and Wildlife

Shellfish

The many small bays, coves, marshes, and rivers in Wareham provide excellent habitat for a variety of shellfish species, such as quahogs, soft-shell clams, oysters, and scallops. Wareham's shellfish resources support local commercial fishermen and numerous recreational shell-fishing enthusiasts.

Each year, the Town of Wareham issues Shellfish Grants. Shellfish Grants are analogous to underwater farms with the crop being shellfish. These grants are operated by individuals who obtained permits through the Town's Board of Selectmen. Wareham also does a shellfish relay, which involves purchasing quahogs from contaminated areas in New Bedford and transplanting them into Wareham's cleaner waters. Once the shellfish have had ample time to purify themselves, they are available for consumption. Wareham also has a shellfish propagation program, which involves planting shellfish and setting suitable substrate for the shellfish spat to adhere.

The majority of the shellfish beds are open to fishing during the winter months although there are areas that remain permanently closed to shell fishing due to poor water quality. Certain areas are classified as seasonal closure areas. These areas are closed to shell fishing during a specified portion of the year, generally in the warmer months. This is due to increased human activity around the waterfront and a climate that is more suitable for bacteria growth. The shellfish beds in Wareham are very productive. Table 2 shows Wareham's estimated shellfish catch for the years 2002 – 2008.

Finfish

Wareham's numerous ponds and streams contain a variety of freshwater fish species, including large-mouth bass, small-mouth bass, trout, pickerel, yellow and white perch, sunfish, catfish, suckers, and minnows. Trout are stocked annually by the MA Division of Fisheries and Wildlife. Coastal areas contain many fish species, including popular game fish such as striped bass, bluefish, scup, flounder, and fluke.

Each spring alewives (*Alosa pseudoharengus*), blueback herring (*Alosa aestivalis*), American shad, and rainbow smelt migrate from the coastal water through the major river systems and several smaller brooks in Wareham to reach fresh water ponds to spawn. Alewives return between March and April to spawn and herring return from late April to late May. These anadromous fish return annually to the Weweantic River, Agawam River, Wankinco River, Gibbs Brook, and Red Brook.

Smelt run primarily up the Weweantic River, however, they also occur in the Agawam River in lesser numbers. Anadromous fish hatch in freshwater, spend their adult lives in saltwater, and return to freshwater to spawn. Anadromous fish generally use the same route that they followed to the ocean as juveniles to return to spawn in the same location where they were hatched. These fish are important links in both marine and freshwater food webs and they are important renewable resource to humans. They are recreationally, aesthetically, and commercially important (Woods Hole Research Center).

Anadromous fish migrate by fish runs – streams connecting bodies of marine and freshwater. Often, natural fish runs are enhanced with man-made fish ladders that allow the fish to navigate obstructions, such as dams, during their annual migration. In 2000, the Town of Wareham, with help from the Massachusetts Division of Marine Fisheries, secured funds to reconstruct the Elks Fishway on the Agawam River. The Elks Fishway Rehabilitation Project reconstructed the fishway to improve the passage over the dam. The new fishway slows the river's flow thus preventing the herring from expending all of their energy before reaching their spawning grounds. The first dam at this site, built in 1632, included a fishway to help the fish migrate to their freshwater spawning grounds. Wareham established an improved herring run at this location in 1838. Several modifications to the fish ladder have taken place since then. The installation of new fish ladders at this site has significantly improved the ability for river herring to migrate to their freshwater spawning grounds in Wareham and Plymouth.

On October 2, 2008, the Massachusetts Marine Fisheries Advisory Commission approved the continuation of a moratorium on the harvest, possession, and sale of river herring in the Commonwealth through 2011. The decision extends the original moratorium that has been in effect since January 2006. Other states including Connecticut, Rhode Island, and North Carolina have also closed their fisheries for river herring and the National Marine Fisheries Service has listed both species of river herring (alewife, *Alosa pseudoharengus* and blueback herring, *A. aestivalis*) as species of concern due to an overall decline coast-wide. (Massachusetts Division of Marine Fisheries).

Before the 2006 moratorium, herring were distributed to permit holders through the Town Herring Agent, who is the only person allowed to take herring.

Estimated Number of Herring Distributed to Permit Holders for the Elks Herring Run				
<i>Source: Habormaster's Office, Town of Wareham, January 2010</i>				
2001	2002	2003	2004	2005
37,547	65,160	31,080	37,024	20,681

Map 17—Anadromous Fish is located at the end of Section 4.

Estimated Shellfish Catch				
<i>Source: Harbormaster's Office, Town of Wareham, January 2010</i>				
Year	Recreational		Commercial	
2008	Permits 1,168		Permits 17	Grants
	Quahog Mixed	2,336 bushels	Quahog Neck/Cherry	485,732 pieces
	Soft Shell Clam	584 bushels	Quahog Chowder	21,917 pounds
	Oyster	73 bushels	Soft Shell Clam	200 pounds
2007	Permits 1,352		Permits 22	Grants
	Quahog Mixed	2,704 bushels	Quahog Neck/Cherry	389,196 pieces
	Soft Shell Clam	676 bushels	Quahog Chowder	12,934 pounds
	Oyster	85 bushels	Soft Shell Clam	44 pounds
2006	Permits 1,332		Permits 20	Grants
	Quahog Mixed	2,664 bushels	Quahog Neck/Cherry	175,057 pieces
	Soft Shell Clam	,332 bushels	Quahog Chowder	6,023 pounds
	Oyster	167 bushels	Soft Shell Clam	3,610 pounds
2005	Permits 1,247		Permits 11	Grants
	Quahog Mixed	2,694 bushels	Quahog Neck/Cherry	175,895 pieces
	Soft Shell Clam	1,247 bushels	Quahog Chowder	10,913 pounds
	Oyster	156 bushels	Soft Shell Clam	1,147 pounds
2004	Permits 1,547		Permits 23	Grants
	Quahog Mixed	3,094 bushels	Quahog Neck/Cherry	392,703 pieces
	Soft Shell Clam	1,547 bushels	Quahog Chowder	15,439 pounds
	Oyster	193 bushels	Soft Shell Clam	2,626 pounds
2003	Permits 1,198		Permits 31	Grants
	Quahog Mixed	2,396 bushels	Quahog Neck/Cherry	688,356 pieces
	Soft Shell Clam	599 bushels	Quahog Chowder	24,247 pounds
	Oyster	149 bushels	Soft Shell Clam	2,325 pounds
2002	Permits 2,165		Permits 41	Grants
	Quahog Mixed	3,248 bushels	Quahog Neck/Cherry	970,640 pieces
	Soft Shell Clam	1,624 bushels	Quahog Chowder	28,590 pounds
	Oyster	270 bushels	Soft Shell Clam	717 pounds
Conversion Information:				
Neck – 500 pieces / bushel		Quahogs – 60 pounds / bushel		
Cherry – 400 pieces / bushel		Clam – 50 pounds / bushel		
Oyster – 350 pieces / bushel		Oyster – 50 pounds / bushel		

TABLE 2: ESTIMATED SHELLFISH CATCH

Wildlife

Wareham's densely wooded areas are habitat for whitetail deer, cottontail rabbit, gray squirrel, flying squirrel, raccoon, ruffed grouse, woodchuck, opossum, skunk, coyote, and fox. Open areas provide habitat for quail, turkey, and occasionally pheasant. Nesting osprey can be observed at Little Harbor, Stony Point Dike, Burgess Point, various locations along the Weweantic River, and other areas. Black ducks, mallards, and wood ducks nest along rivers, swamps, marshes, and cranberry bogs. The coastal areas attract migratory ducks and geese. Several species of gulls are observed in abundance. Mute swans nest on Agawam Mill Pond and on many of the cranberry bog reservoirs.

In 2003, David Kay conducted a wildlife study on approximately 65 acres of forested Town property in South Wareham on the Weweantic River known as the Fearing Hill Conservation Area. The study found evidence of the following mammals, in approximate order of activity level seen (most to least): gray fox, whitetail deer, raccoon, gray squirrel, fisher, eastern chipmunk, striped skunk, red fox, mink, and red squirrel. The absence of an animal from this list does not signify absence from the property. Although this study did not include wildlife other than mammals, several other wildlife species were heard or seen. These include: wood frog, hawks (species uncertain), turkey vultures, rufous-sided towhees, chickadees, and oven birds (Kay, 2003).

A wildlife corridor is a swath of protected land or water where animals can live and travel undisturbed by development and other human activity. Wareham is committed to protecting undeveloped land in uplands and along waterways. Increasing wildlife corridors and greenways is a priority to protect and expand threatened habitat areas and help to maintain biological diversity.

Development and road networks often make it impossible to protect large tracts of land. Isolated parks and greenspaces often do not meet the habitat requirements of wildlife that require large territories. However, creating a network of contiguous protected natural areas increases the safe habitat available to support larger and more sensitive wildlife species. Linking protected areas allows wildlife to live and travel undisturbed by development and other human activity.

A recent public-private partnership of local, regional, and national partners, assisted by volunteers, worked to reverse centuries of man-made changes to Red Brook, a 4.5 mile spring-fed, cold water coastal stream that divides Wareham and Plymouth. Removal of man-made obstructions along its entire length restored the stream to its natural condition, enhancing habitat for sea-run brook trout. The entire length of the brook is now protected. This was accomplished by linking several protected natural areas including 327-acres of protected watershed and well-field area, the 210-acre Lyman Reserve, the 300-acre Red Brook Reserve, and the 176-acre Century Bog, which is scheduled to be restored to a natural riverine system. This protected greenway will hopefully be connected to the Myles Standish Reserve in the future.

A proposed project in West Wareham seeks to acquire and protect endangered habitat along the Weweantic River. If realized, this project will link other protected land. The final result would secure several miles along the river and 250-acres of estuarine shoreline, coastal wetlands, and uplands for wildlife to travel undisturbed by development. Connecting these critical habitat areas will prevent further fragmentation by new roads and development.

The Natural Heritage and Endangered Species Program, part of the Massachusetts Division of Fisheries and Wildlife, lists 176 species of native vertebrate and invertebrate animals that are officially listed as endangered, threatened, or species of concern in Massachusetts, 31 of these species are found in Wareham. (current as of August 2008). Table 3, on the next page, is a list of MESA (Massachusetts Endangered Species Act) and Federal Status for Rare Species in Wareham. The field MRO—Most Recent Observation, represents the most recent observation of that species in a town. However, because they are rare, many MESA-listed species are difficult to detect even when they are present. The fact that the 'Most Recent Observation' recorded for a species may be several years old should not be interpreted as meaning that the species no longer occurs in a town. However, records older than twenty-five years are considered historic.

NHESP identifies 5,116 acres in Wareham as Estimated Habitats of Rare Wildlife and 6,800 acres as Priority Habitats for Rare Species. Priority Habitat is based on the known geographical extent of habitat for all state-listed rare species, both plants and animals. Estimated Habitats are a sub-set of the Priority Habitats and are based on the geographical extent of habitat of state-listed rare wetlands wildlife.

NHESP developed a BioMap for Massachusetts that depicts Core Habitat which is the most viable habitat for rare plant and animal species and shows Supporting Natural Landscapes that buffer and connect the Core Habitat. The BioMap is designed to be a planning tool – a way for communities to determine where best to direct growth. It is a good indicator of important habitats within Wareham.

Map 18—NHESP Estimated Habitats of Rare Wildlife,
Map 19—NHESP Priority Habitats for Rare Species, and
Map 20—NHESP BioMap are located at the end of Section 4.

MESA (Massachusetts Endangered Species Act) and Federal Status for Rare Species in Wareham

(As listed in 321 CMR 10.90, August 8, 2008)

E = Endangered T = Threatened SC = Special Concern MRO = Most Recent Observation

Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	MRO
Amphibian	Ambystoma opacum	Marbled Salamander	T		1900
Bird	Accipiter striatus	Sharp-shinned Hawk	SC		1988
Bird	Charadrius melodus	Piping Plover	T	T	2006
Bird	Parula americana	Northern Parula	T		1889
Bird	Sterna dougallii	Roseate Tern	E	E	2008
Bird	Sterna hirundo	Common Tern	SC		2008
Butterfly/Moth	Apamea inebriata	Drunk Apamea Moth	SC		2002
Butterfly/Moth	Catocala herodias gerhardi	Gerhard's Underwing Moth	SC		2002
Butterfly/Moth	Chaetagnia cerata	Waxed Sallow Moth	SC		1900s
Butterfly/Moth	Cicinnus melsheimeri	Melsheimer's Sack Bearer	T		1974
Butterfly/Moth	Cingilia catenaria	Chain Dot Geometer	SC		1977
Butterfly/Moth	Cynia inopinatus	Unexpected Cynia	T		1975
Butterfly/Moth	Hemileuca maia	Barrens Buckmoth	SC		2002
Butterfly/Moth	Hypomecis buchholzaria	Buchholz's Gray	E		1968
Butterfly/Moth	Itame sp. 1 nr. inextricata	Pine Barrens Itame	SC		1978
Butterfly/Moth	Lithophane viridipallens	Pale Green Pinion Moth	SC		2002
Butterfly/Moth	Metarranthia pilosaria	Coastal Swamp Moth	SC		1978
Butterfly/Moth	Papaipema appassinata	Pitcher Plant Borer Moth	T		1971
Butterfly/Moth	Papaipema sulphurata	Water-willow Stem Borer	T		1987
Butterfly/Moth	Psectraglaea carnosia	Pink Sallow	SC		1978
Butterfly/Moth	Spartinophaga inops	Spartina Borer Moth	SC		1977
Dragonfly/Damselfly	Anax longipes	Comet Darner	SC		1913
Dragonfly/Damselfly	Boyeria grafiana	Ocellated Darner	SC		1912
Dragonfly/Damselfly	Enallagma laterale	New England Bluet	SC		1987
Mammal	Synaptomys cooperi	Southern Bog Lemming	SC		1894
Mussel	Alasmidonta heterodon	Dwarf Wedgemussel	E	E	Historic
Mussel	Alasmidonta undulata	Triangle Floater	SC		1999
Mussel	Leptodea ochracea	Tidewater Mucket	SC		1999
Reptile	Malaclemys terrapin	Diamond-backed Terrapin	T		2008
Reptile	Pseudemys rubriventris pop.1	Northern Red-bellied Cooter	E	E	2005
Reptile	Terrapene carolina	Eastern Box Turtle	SC		2009
Vascular Plant	Ageratina aromatica	Lesser Snakeroot	E		1935
Vascular Plant	Aristida purpurascens	Purple Needlegrass	T		1987
Vascular Plant	Cardamine longii	Long's Bitter-cress	E		2000
Vascular Plant	Carex striata	Walter's Sedge	E		1986
Vascular Plant	Corema conradii	Broom Crowberry	SC		2008
Vascular Plant	Cyperus houghtonii	Houghton's Flatsedge	E		1890
Vascular Plant	Dichanthelium dichotomum ssp. mattamuskeetense	Mattamuskeet Panic-grass	E		1950
Vascular Plant	Elatine americana	American Waterwort	E		1980
Vascular Plant	Eriocaulon parkeri	Parker's Pipewort	E		2006
Vascular Plant	Liatris scariosa var. novae-angliae	New England Blazing Star	SC		2000
Vascular Plant	Linum medium var. texanum	Rigid Flax	T		1931
Vascular Plant	Nabalus serpentarius	Lion's Foot	E		1933
Vascular Plant	Sabatia kennedyana	Plymouth Gentian	SC		2000
Vascular Plant	Sagittaria teres	Terete Arrowhead	SC		2000
Vascular Plant	Setaria parviflora	Bristly Foxtail	SC		2000
Vascular Plant	Spartina cynosuroides	Salt Reedgrass	T		1989
Vascular Plant	Symphyotrichum concolor	Eastern Silvery Aster	E		1926
Vascular Plant	Tillaea aquatica	Pygmyweed	T		2006
Vascular Plant	Utricularia subulata	Subulate Bladderwort	SC		1975

TABLE 3: MESA AND FEDERAL STATUS FOR RARE SPECIES IN WAREHAM

F. Scenic Resources and Unique Environments

The Massachusetts Department of Conservation and Recreation (DCR) identifies Areas of Critical Environmental Concern (ACECs). ACECs receive special recognition because of the quality, uniqueness, and significance of their natural and cultural resources. These areas are identified and nominated at the community level and are reviewed and designated by the Commonwealth's Secretary of Environmental Affairs. ACEC designation gives communities an important tool to preserve and manage areas they identify as having natural and cultural resources of regional or statewide significance. If these unique areas are nominated and designated as ACECs, communities can receive additional support and assistance through state environmental reviews of development projects, stricter state regulations for wetland and waterways protections, technical assistance from ACEC Program staff, and grants or other proactive ways to protect and manage their resources. Wareham does not have any designated ACECs. For more information on nominating a unique area in our community, visit the DCR website at: <http://www.mas.gov/dcr/stewardship/acec>.

Wareham is on a sandy coastal plain and its myriad of beaches, marshes, rivers, streams, ponds, and glacial hills are the dominant natural features here. Its extensive shoreline, which includes Buzzards Bay, and numerous cranberry bogs are the Town's most unique geologic features. The area was "pitted" with kettle holes that were formed by blocks of ice that were detached from retreating glaciers and buried in the sediment for many years until they melted, leaving a depression. If the kettle hole was deep enough to intercept the water table, it formed a kettle pond such as Charge Pond. Some of the kettle ponds eventually filled with organic sediments forming bogs. Many of these bogs are used for cranberry production.

Wareham has an abundance of areas, landscapes, and sites that have architectural and historic interest. Wareham's Parker Mills, Center Park, and The Narrows are areas protected through local historic district designation. Cranberry bogs, scenic vistas of Onset Bay and the Narrows, the Parker Mill Bridge overlook, Little Harbor, and Horseshoe Pond, serve not just as natural resources but as community assets which contribute to Wareham's sense of place, way of life, economy, and connect it to its past.

Map 21—Unique Features is located at the end of Section 4.

In 2001, Wareham participated in the Massachusetts Department of Conservation and Recreation's (DCR) Heritage Landscape Inventory Pilot Project. A heritage landscape, as defined by the DCR, is a place which results from human interaction with the natural environment and development of the land, and helps define the character of the community and reflect its past. These areas contain both natural and cultural resources and come in many forms, including cemeteries, mill sites, cranberry bogs, river corridors, village centers, scenic roads, camp meeting grounds, and shipyards. The areas identified as heritage landscapes in Wareham include: Agawam River Watershed, Captain John Kendrick House, Cranberry Commons, Fearing Tavern, Greer Lumber, On-I-Set Wigwam, Wankinco River Watershed, Weweantic River Watershed, Ancient Indian Route, Horseshoe Pond, Wicket's Island, Tobey Homestead, and Tremont Dam. The Cape Cod Ship Building Company, cranberry bogs, and the Tremont Nail Factory are also cited as having great historic significance (Wareham Preservation Plan 2007).

Cranberry bogs are a prominent feature in Wareham. The cranberry, the blueberry, and the Concord grape are the only three fruits that can trace their roots to North American soil. Cranberries, a native wetland plant, are the largest agricultural crop in the Commonwealth. The cranberry industry maintains extensive wetland systems. For each acre of producing bogs, there are approximately four acres of ditches, dikes, reservoirs, ponds, and uplands. Just like natural wetlands, the cranberry wetland system recharges the aquifer, provides flood control, storm water drainage, preserves habitats for plants and animals, and filters the groundwater. The cranberry industry is the largest economic business in Wareham with approximately 1,500 acres of bogs and 6,000 acres of additional open space, but in recent years, there has been a dramatic drop in cranberry prices causing an economic uncertainty and a destabilization of the cranberry industry (Cape Cod Cranberry Grower's

Association). The agricultural lands owned by the cranberry industry provide large expanses of undeveloped areas as both bog and surrounding woodlands. Development pressure, as well as a decline in the profitability of the cranberry industry, has led to the recent sale of agricultural land. The cranberry industry is an important economic resource and a valuable contributor to Wareham's open space.

Map 22—Cranberry Production and Support Areas is located at the end of Section 4.

Wareham has various types of scenic resources and unique environments in addition to the acres of cranberry bogs. The view of Onset Bay from the elevated bluffs of Onset Village is a visual panorama of the various activities associated with a coastal existence. Beaches, private piers, marinas, and fishing vessels coexist within this moderately protected embayment. The surrounding area is densely developed and becomes heavily populated in summer months.

Just above the Narrows Bridge, near Wareham Village, a sprawling salt marsh provides habitat for many plants and animals. This marks the area where the Wankinco River joins the Agawam River. Looking upriver, past the marsh, is the Tremont Nail Factory. In the other direction, the Wareham River continues on to Buzzards Bay. Mary Besse Park and Pier is located along the edge of the Wareham River adjacent to the bridge. This scenic park is frequented by recreational fishermen and sightseers.

The Nantucket II, a lightship designated WLV-613, is moored at a shipyard downstream from the Narrows Bridge. It was built at a U.S. Coast Guard yard in 1952. After just a year of service, WLV-613 underwent a transformation that made it unique amongst U.S. lightships: it received a tripod foremast topped by a cylindrical, lighthouse-style lantern room housing a new optical apparatus. The beacon made it the brightest of all American lightships. The Nantucket II patrolled the dangerous shoals off Nantucket Island from 1979 until it was relieved of duty in 1983. It was the last lightship in service in the United States. The lightship has passed through several owners and has been privately owned since 1998. The Nantucket II underwent a million-dollar-plus overhaul and is now berthed on the Wareham River.

Little Harbor is a barrier beach system that offers excellent views of Buzzards Bay. A thriving estuarine community exists behind the low dunes of the barrier. This beach offers shallow calm waters for swimming and wind surfing; it is a popular summer destination. The barrier beach and coastal banks have suffered erosion in several areas during past storm events. Efforts have been made to reestablish beach grass on the over-washed areas to stabilize the dunes.

Horseshoe Pond is an inland freshwater pond with a diverse wetland habitat. Open water, shallow and deep freshwater marsh, and wooded swamps exist here. The pond is an impoundment created when the Weweantic River was dammed to provide water for a bog iron factory at the site. Remnants of the building foundations remain. The dam at Horseshoe Pond is in a state of disrepair and is not actively managed. Several areas of the pond are bordered by Town and privately held conservation land. The scenic, natural undisturbed shores are aesthetically attractive and valuable wildlife habitat. Land near the pond is identified as Estimated Habitat of Rare Wildlife.

Map 18—NHESP Estimated Habitat of Rare Wildlife is located at the end of Section 4.

Wareham has many historic structures including the Tremont Nail Factory Complex and the Tobey Homestead; both are listed on the National Registry of Historic Places. Other historic resources include the Cape Cod Shipbuilding Company, the Roland Hatcher House, the Fearing Tavern, the Prince Burgess House, the Onset Avenue Bridge, and the Great Neck Cemetery. The Great Neck Road area contains a concentration of fourteen structures of historical importance. Wareham has established local historic districts at Parker Mills, Center Park, and the Narrows.

The 19th century Tremont Nail Factory was listed in the National Registry of Historic Places in 1976. This group of buildings is set along Elm Street surrounded by the Parker Mills Pond and the Wankinco River. Tremont Nail was the oldest continually operating cut nail factory in the United States until the factory became a division of Acorn Manufacturing and moved to Mansfield, Massachusetts. The Town of Wareham used CPA funds to purchase the site in 2004. In addition to its historic significance, a fish ladder adjacent to Tremont Nail allows herring to navigate the Parker Mills Pond dam in their annual trek upriver to their freshwater spawning grounds.

The Tobey Homestead is a historic farmhouse on Main Street near Mary Besse Park. The site was built in 1825 and added to the National Historic Register in 1986.

The Cape Cod Shipbuilding Company was founded in 1899 by Captain Charles S. Gurney. During his lifetime, over 16,000 boats were built. The largest boats were 100 feet, but most were 12 to 20 feet. The shipbuilding company was relocated to its present site on Narrows Road in 1919 and purchased by E. L. Goodwin in 1939. The Cape Cod Shipbuilding Company has remained in continuous operation for over 100 years. Seven buildings built in the 1930's represent the historic core of one of the last boat yards along the Wareham River.

The Fearing Tavern, on Elm Street, was built in 1690 by the Bump family. One of Wareham's oldest homes became the Fearing Tavern when Israel Fearing purchased it in 1747. Additions were added in 1765 and 1820. The tavern remained in the Fearing family for 200 years. Fearing Tavern is an important survivor of Wareham's colonial past and is now operated as a museum by the Wareham Historical Society. The tavern contains sixteen period rooms displaying 18th and 19th century furnishings, toys, tools, and other objects.

The On I-Set Wigwam, located on Crescent Place in Onset, is one of Wareham's most iconic buildings. Onset was settled in 1877 by the Onset Bay Grove Association. They were a group of professional businessmen dedicated to the principals of Spiritualism and the interest of human progress. The On I-Set Wigwam, completed in 1894, was built by the Onset Bay Grove Camp Meeting Co. Workers and was dedicated to the Wampanog Indians. The Wigwam is a 26-foot octagonal structure with a healing pole at its center. The wooden edifice was designed to resemble a Native American teepee. The Wareham Historical Commission holds a preservation restriction from the National Spiritualist Association of Churches (NSAC) and has worked with the NSAC to obtain funding for necessary repairs to the Wigwam.

The Kendrick House, located on Main Street in Wareham Village, was purchased by Captain John Kendrick (c 1740 – 1794) in 1778. Kendrick was an American sea captain during the Revolutionary War and later a prominent sea captain, fur trader, and explorer. He sailed to the Sandwich Islands (now Hawaii), China, and Japan. The Kendrick house is now owned by the Wareham Historical Society and serves as a maritime museum. The museum contains furnishings from the 18th and 19th century, textiles, costumes, Maritime paintings, and a model of the schooner "Ernestina", which served as a packet ship for many years sailing between the United States and the Cape Verdean Islands.

Center Park, on Main Street, is the site of the Town Commons. A plaque describes it as "the original center of Town, known as Fresh Meadow, until its incorporation as Wareham in 1739. Here livestock grazed and the first meetinghouse was built, in which early settlers worshiped and Town business was conducted". A Soldiers and Sailors Monument graces the park. Erected in 1904, the 25-foot monument is flanked by two cannons donated by Fairhaven; a pyramid of cannon balls is nearby. It was erected "in memory of her loyal sons" in the Army and Navy that were lost in these wars: King George's War, Revolutionary War, War of 1812, Civil War, Philippine War. A World War I Veterans Plaque is displayed nearby.

G. Environmental Challenges

Hazardous waste sites are a potential environmental problem that could conflict with recreation and open space goals. As of December 9, 2009, Wareham has seven hazardous waste sites with open DEP files (source Massachusetts Department of Environmental Protection (DEP), Bureau of Waste Site Cleanup). These sites are monitored and efforts made to mitigate their impact on the environment.

Map 23—Hazardous Waste Sites is located at the end of Section 4.

Wareham does not have a landfill or any transfer stations. Residents may contract private businesses to provide home pick-up of solid waste or they can drop it off at either the Marion Transfer Station or the Rochester Transfer Station. The refuse is then delivered to the SEMASS Resource Recovery Facility. SEMASS is a 95-acre facility in Rochester that offers southeastern Massachusetts's communities an alternative to land filling their municipal solid waste. SEMASS employs a shed-and-burn technology to create refuse-derived fuel, enabling the plant's processing of approximately one million tons of solid waste each year. The resulting electricity meets the needs of more than 75,000 homes.

Sedimentation of wetlands, streams, and rivers can cause poor water circulation, which may lead to a degradation of wildlife habitat. It has been a common practice to channel stormwater into nearby waterways. This road runoff is a significant contributor to sedimentation in streams and rivers. Sedimentation is a concern in some locations. Wareham continues to upgrade its road drainage systems to eliminate this environmental problem. Sedimentation and leaching basins have been installed under roads in problem areas. These projects are difficult due to lack of available space in which to build new drainage structures. Improvements to the collection and treatment of stormwater should dramatically improve water quality. Dredging of waterways may present environmental problems but they can be essential to maintaining wildlife habitat. These projects are cost prohibitive and the Town must depend on funding assistance from other government agencies for dredging projects.

Wareham is a low-lying coastal town subject to flooding problems associated with coastal storm events. Wareham has approximately 5,000 acres in the 100-year flood plain and over 2,000 acres in the 500-year flood plain. The majority of this land is heavily developed. This development contributes to ongoing erosion with damage to structures and property along the coast during hurricanes and winter storms. In the Swifts Beach area, several homes were reconstructed on concrete pilings after being damaged during Hurricane Bob (1991). Current flood construction regulations require that new structures be elevated above the base flood elevation designated on the FEMA Firm Maps. Because of the extensive development in flood zones, flooding continues to be a problem with structures damaged during storm events.

Flooding sometimes occurs along inland river systems but does not result in the same level of damage as is done along the coast. Inland flooding results from heavy rain events and does not necessarily coincide with storms that cause coastal damage.

Map 15—Flood Hazard Areas is located at the end of Section 4.

Water quality problems in Wareham have resulted in the intermittent closure of individual shellfishing areas. The degradation of water quality may be related to human activity and the impacts associated with that activity.

Nitrogen loading from activities in the towns upstream from Wareham directly contributes to water quality degradation in Wareham's major river and estuarine systems. Nitrogen overloading is a complex management issue due to the size of the watersheds involved and the fact that much of the nitrogen emanates from communities outside of Wareham's municipal boundaries.

Sewage disposal is also a difficult issue. By the end of 2011, more than half of Wareham residents will have public sewer service, the remainder must use individual septic systems. Failing systems can add nitrogen to the groundwater. Another source of nitrogen pollution results from overuse of fertilizers on lawns and agricultural fields. Excessive nitrates in surface water can cause algal blooms and other undesirable effects. To minimize the effects of sewage disposal, septic systems must be properly constructed and should be located as far from wells and surface waters as is practical. Fertilizer should be used with care, especially when near a body of open water. As the population continues to increase and the exploitation of undersized lots intensifies, the Town may find it necessary to enact more stringent septic regulations than those mandated by the Commonwealth.

In the summer months, many Canada Geese populate Wareham's waters. In great numbers, these birds produce large quantities of fecal matter and have been blamed for the destruction of lawns. There is also a considerable swan population in and around the Wankinco and Agawam Rivers. Currently, the Massachusetts Division of Fisheries and Wildlife allows extended hunting seasons and may issue permits for egg addling to curb the Canada Geese population.

The William Minot Forest is 200 plus acres of protected forestland acquired by the Town of Wareham in 1951. It is comprised of norway maple, red pine, white pine, mixed oaks, pitch pine, red maple, and black locust with an understory of black cherry, sassafras, huckleberry, highbush and lowbush blueberry, wild raisin, bayberry, sheep laurel, briars, bittersweet, grasses, wintergreen, arrowwood, goldenrod. Several areas are seasonally wet.

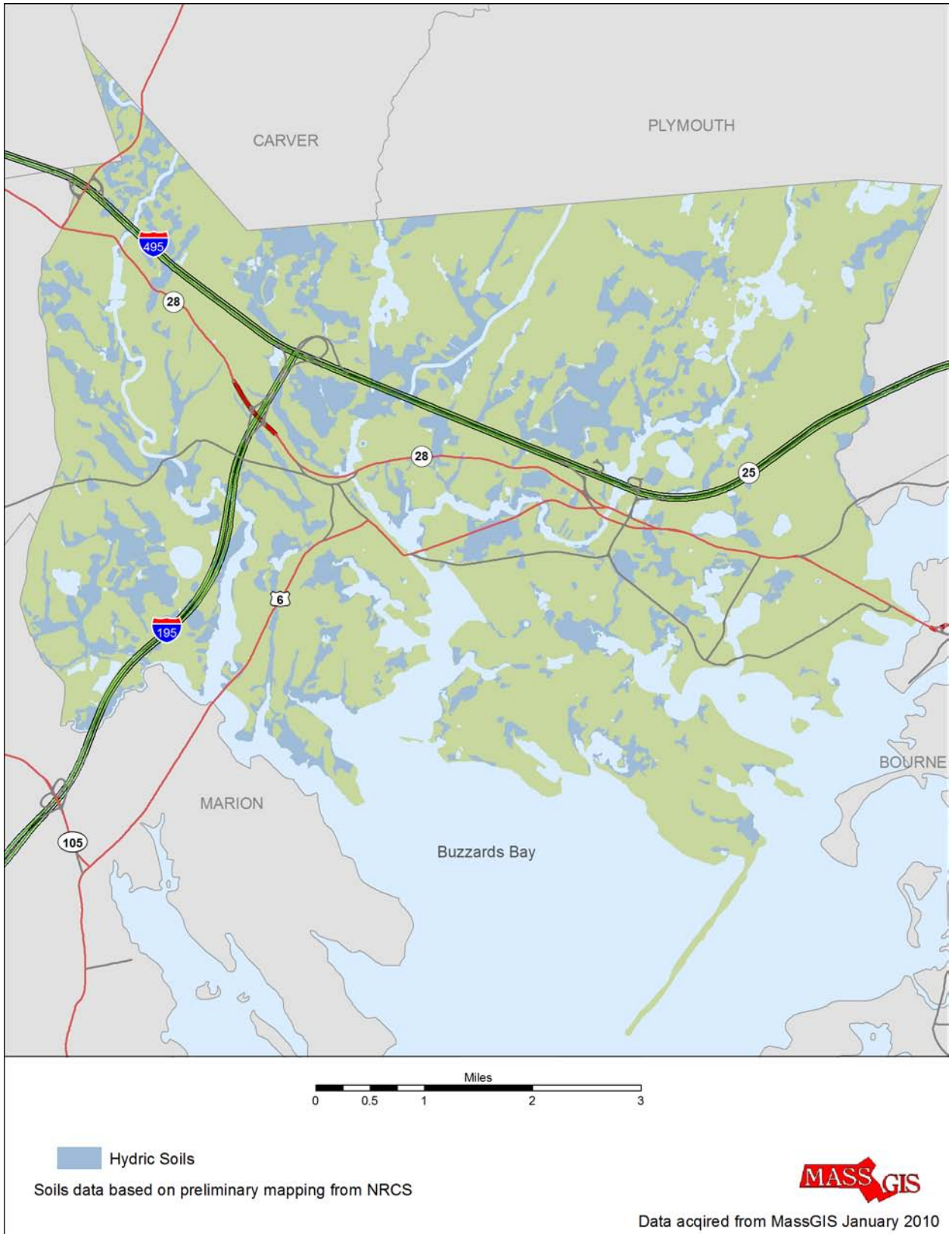
Several areas of the forest have a fair amount of Invasive species, which include bittersweet, winged euonymus, buckthorn, and barberry. Efforts are being considered to control the spread of these species before they begin to significantly alter the composition of the existing stands. Wildlife habitat enhancement is recommended to ensure the forest remains attractive for a greater variety of wildlife. Periodically mowing power line easements, thinning, and individual selection harvest would both stimulate the natural regeneration of the white pine and improve the growing conditions of the remaining trees (Forest Management Plan, 2010).

Environmental Equity

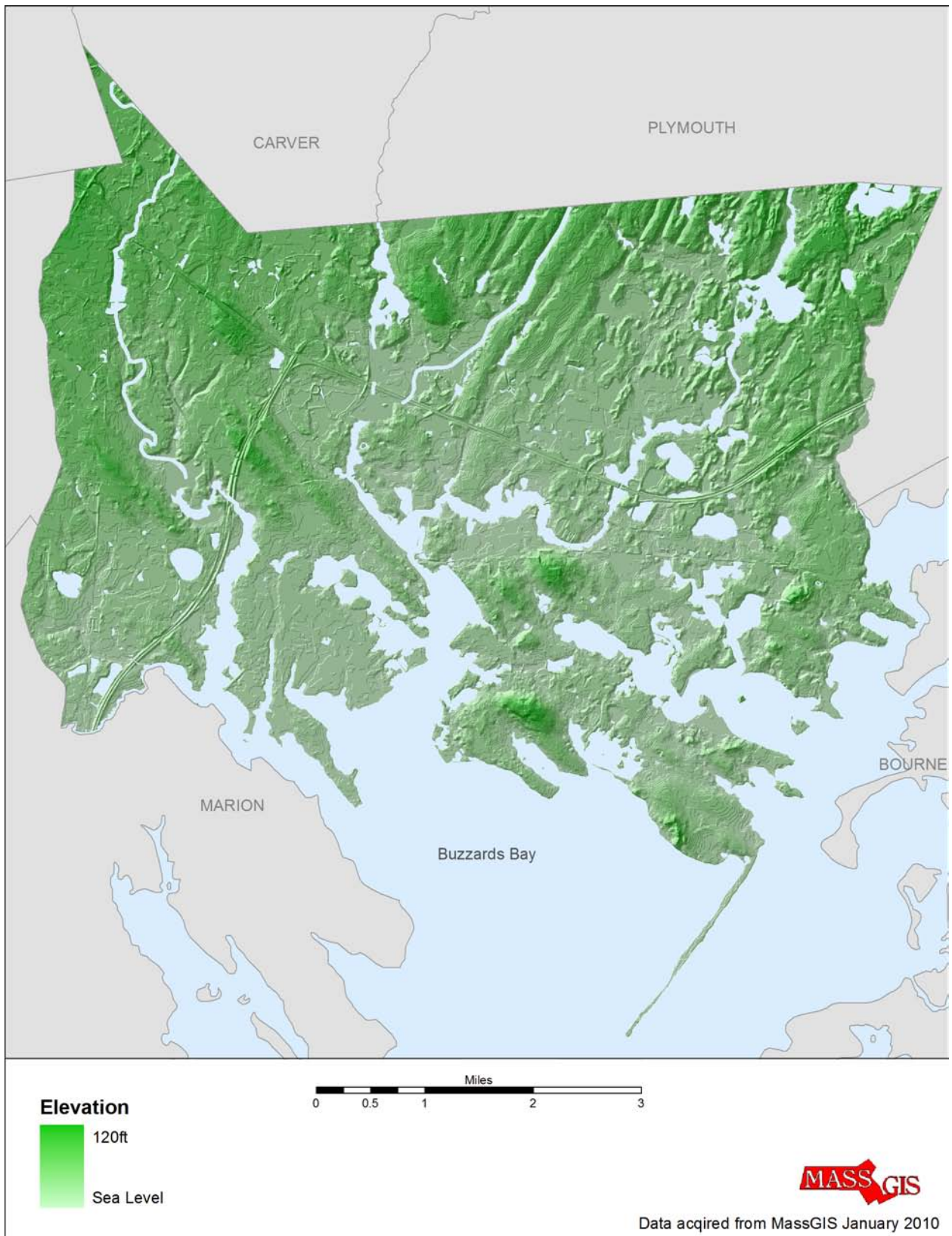
All of the residents of Wareham, including those belonging to Environmental Justice (EJ) populations, have access to and many opportunities to enjoy the recreational facilities and the extensive protected open space in Town. (For more information on Wareham's EJ populations, see Section 3C – Population Characteristics.) Environmental Justice is based on the principle that all people have a right to be protected from environmental pollution, and to live in and enjoy a clean and healthful environment. Environmental equity assures an unbiased distribution of environmental benefits such as open space and recreation areas to all neighborhoods, including communities designated as EJ populations. These lower income and minority populations live alongside the remaining residents and have access to the same parks, recreation areas, and green amenities.

Wareham's EJ populations live within 19% of the Town's total land area and represent 29% of the residents. These designated areas contain one-third of the Town's neighborhood parks, playgrounds, recreation facilities, and conservation areas. All conservation areas are free of charge and many are located along public transportation routes. Four out of five of Wareham's most popular playgrounds, including Lopes Playground—voted Wareham's most popular recreation area, and both public tennis courts are located in EJ areas. The Wareham Free Library, located in an EJ area and accessible via public transportation, is an excellent source for information on the Town's recreation sites.

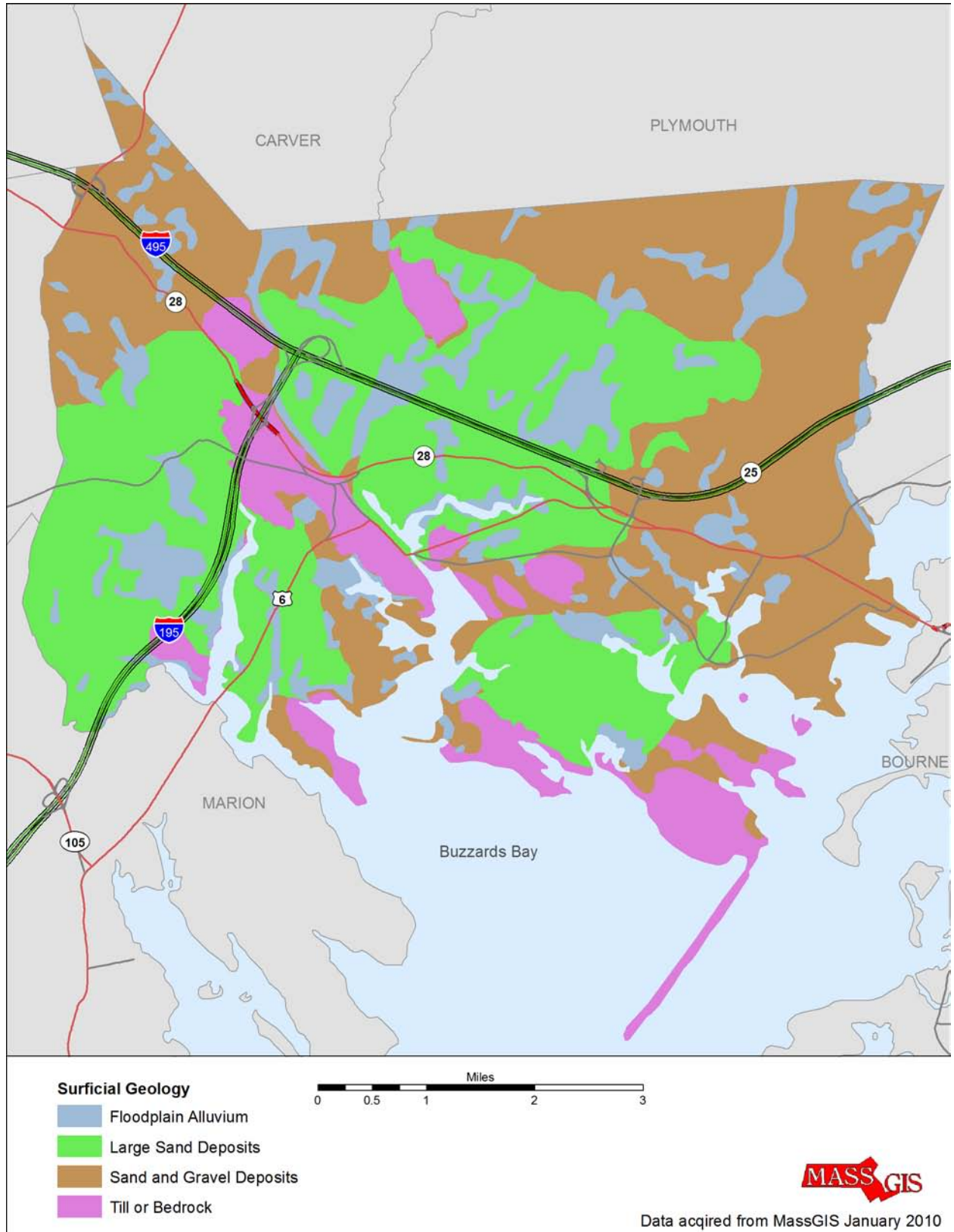
Wareham is committed to providing all residents with equal access to parks, conservation areas, and recreational opportunities.

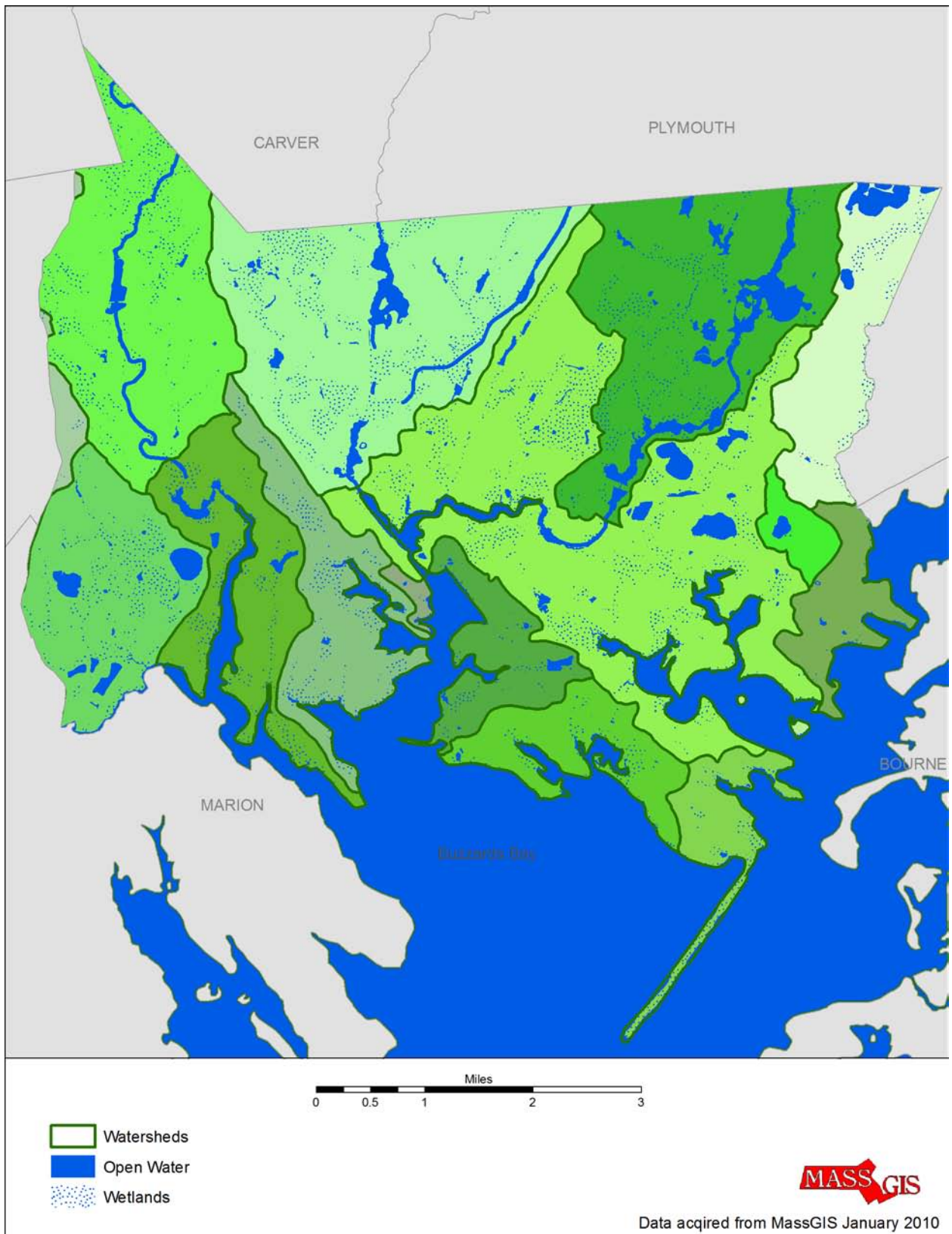


MAP 8—HYDRIC SOILS

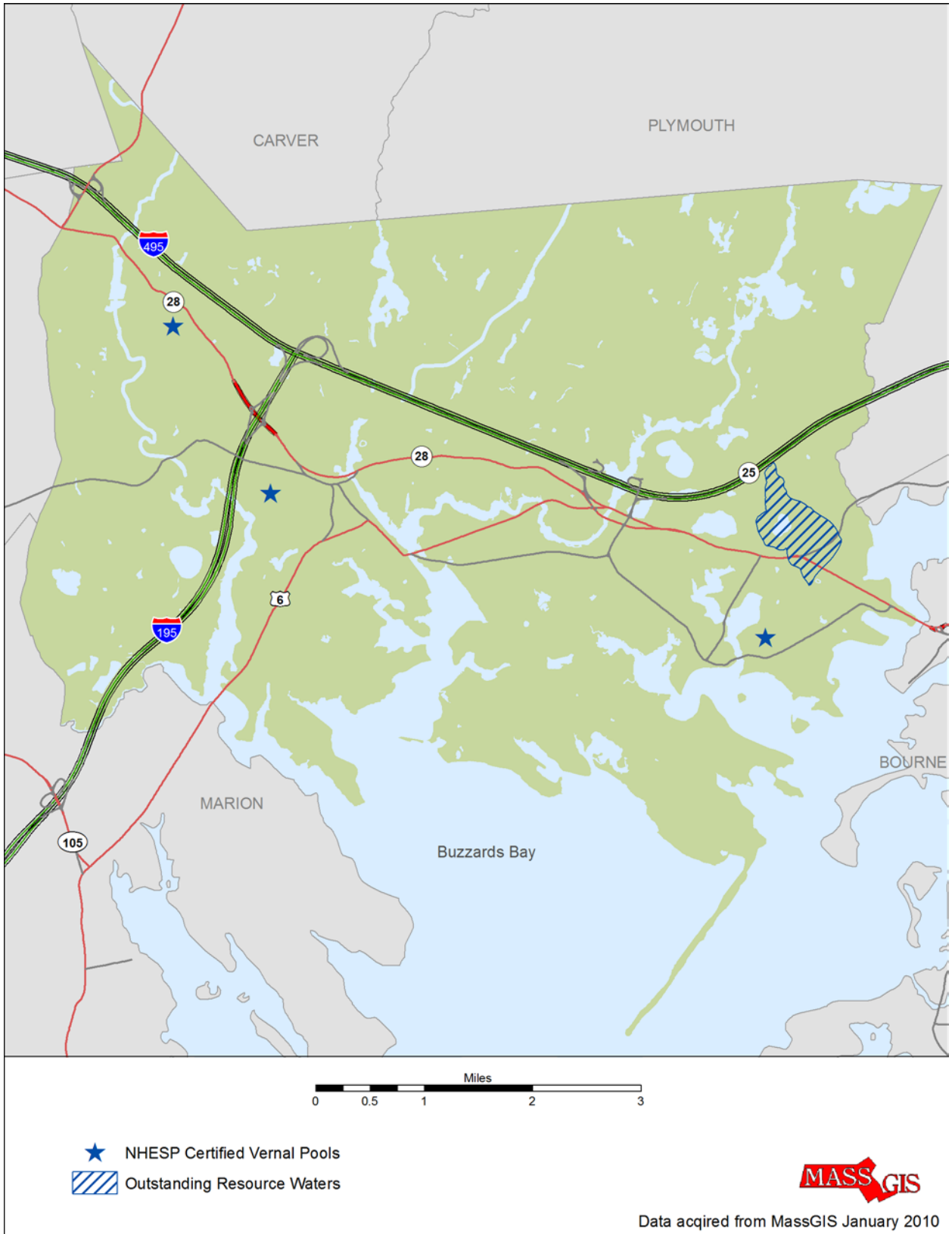


MAP 9—TOPOGRAPHY

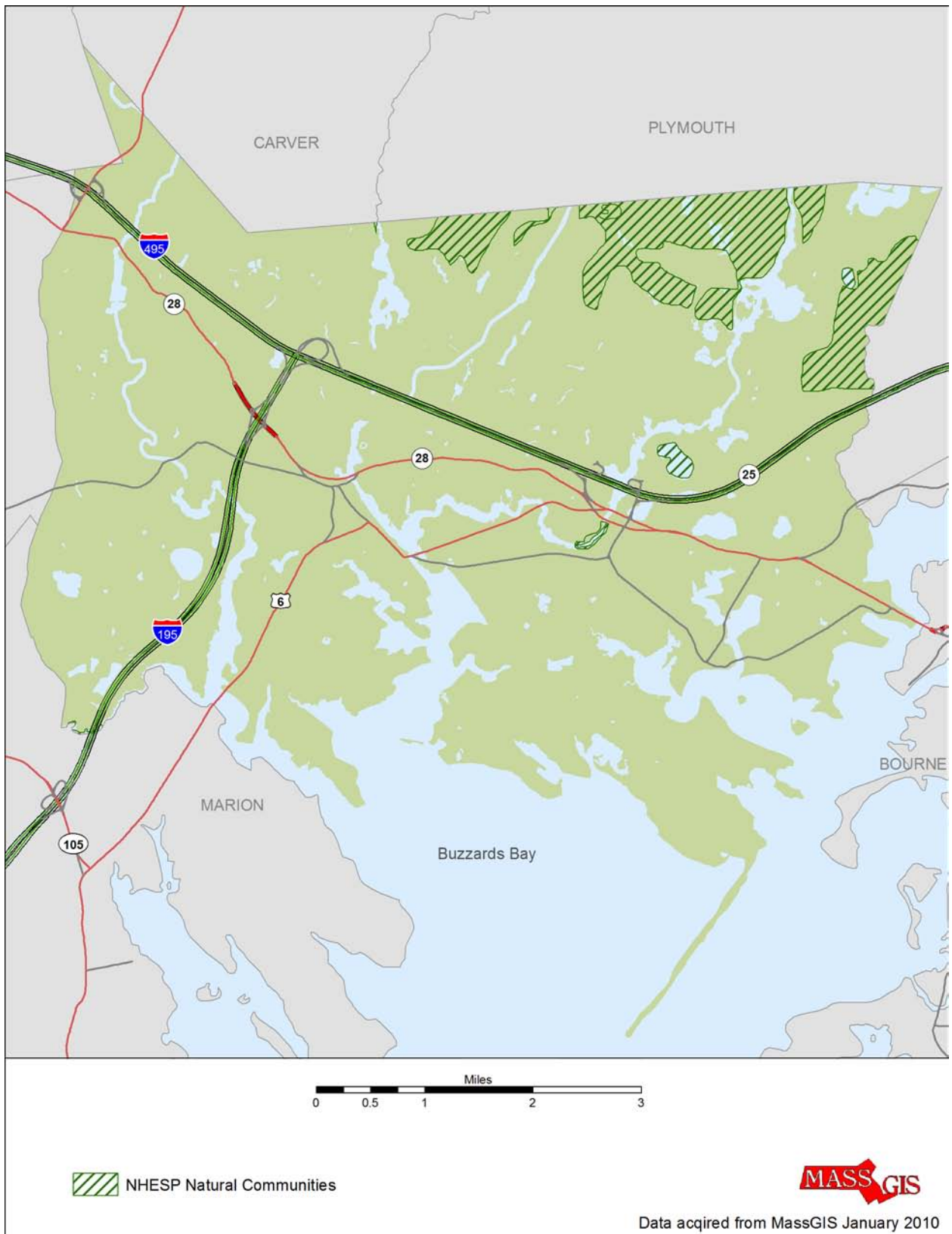
**MAP 10—SURFICIAL GEOLOGY**



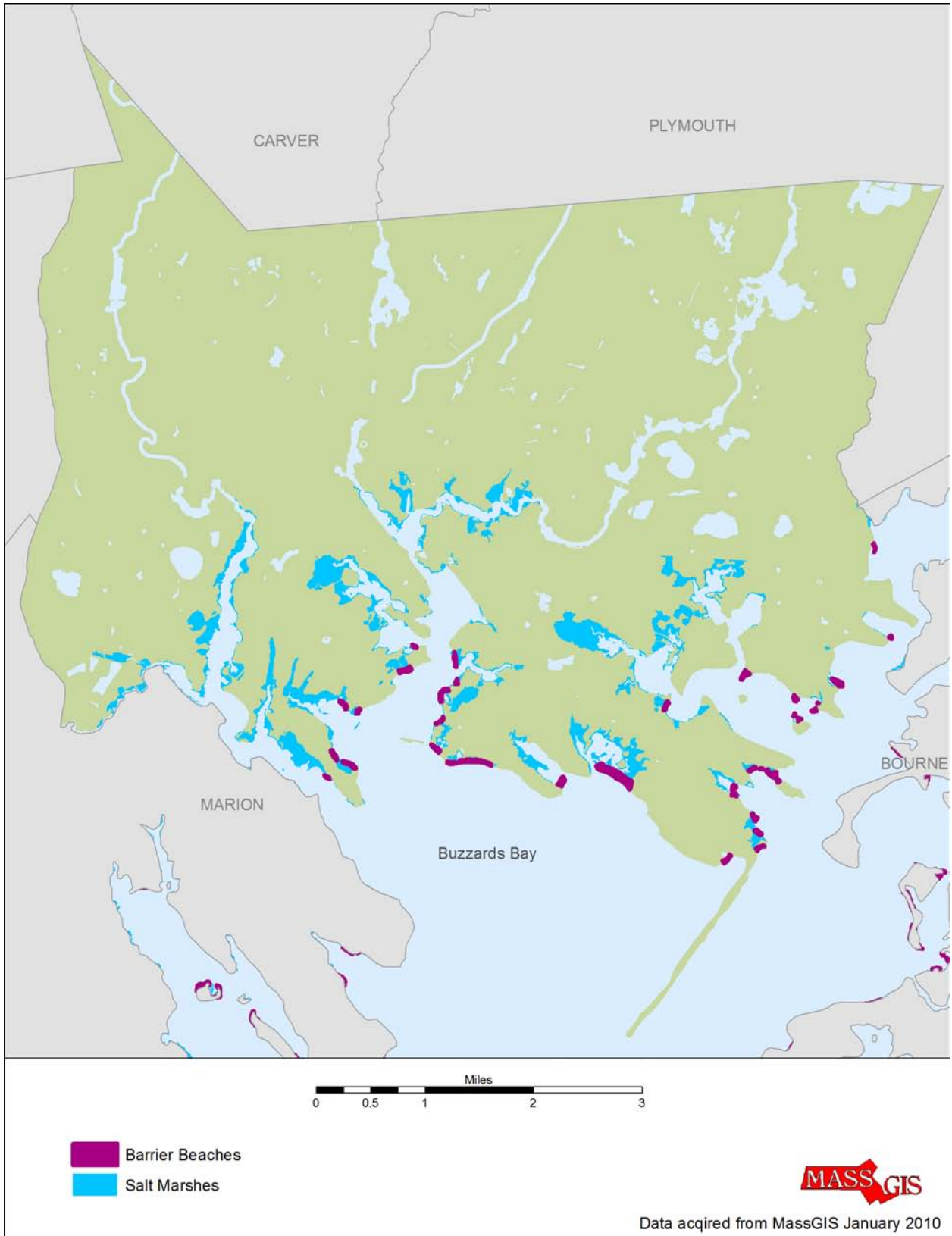
MAP 11—WATER RESOURCES



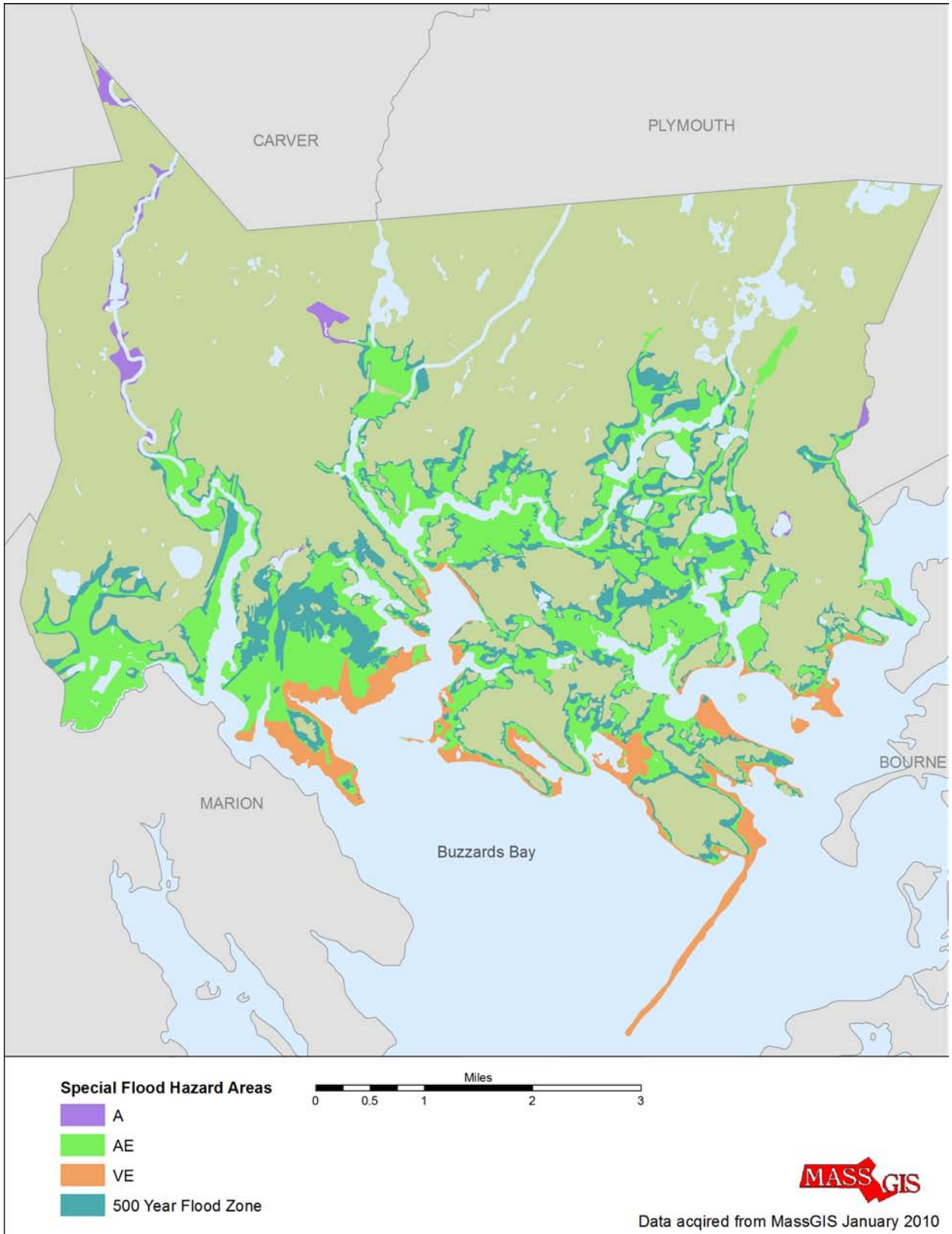
MAP 12—OUTSTANDING RESOURCE WATERS



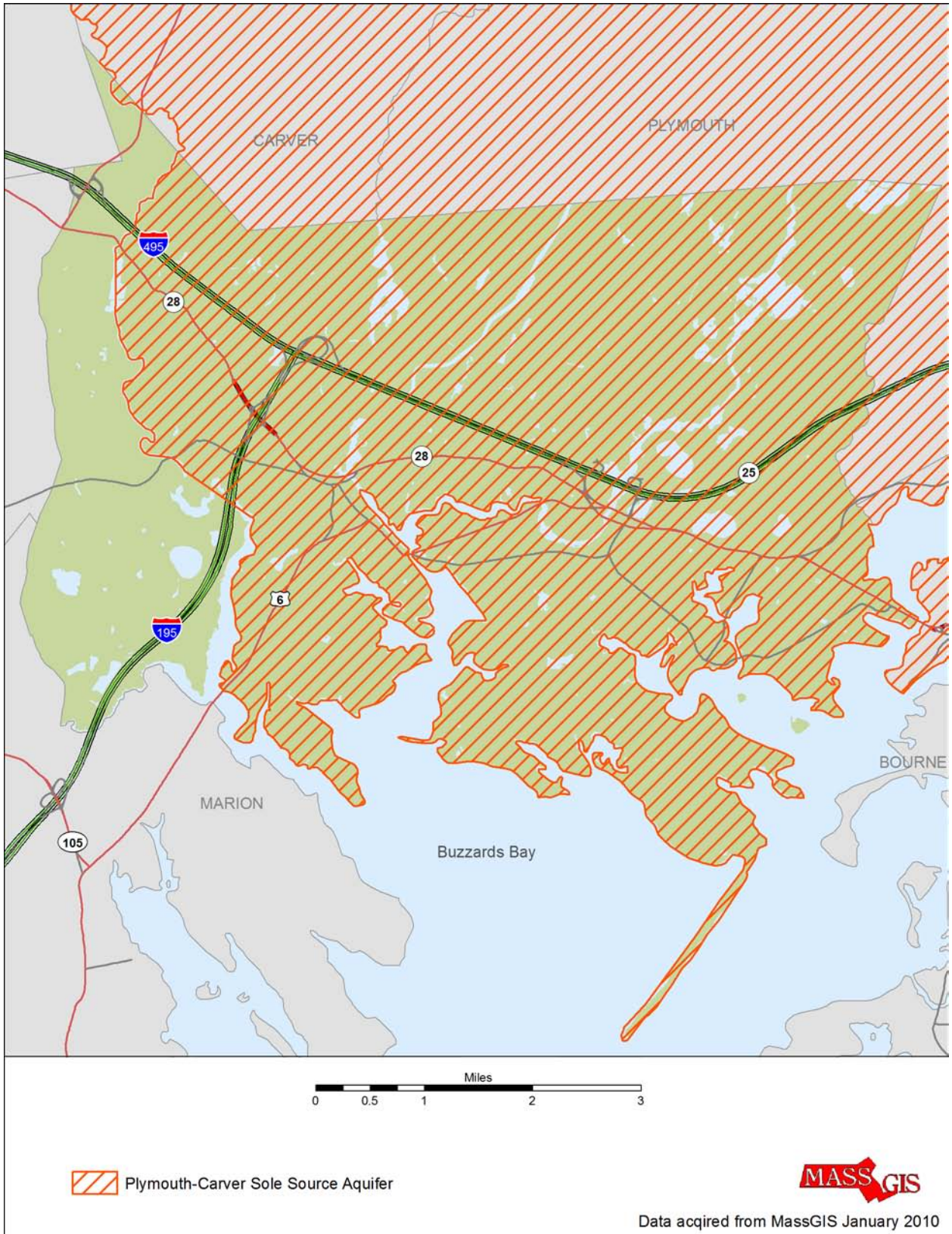
MAP 13—NHESP NATURAL COMMUNITIES



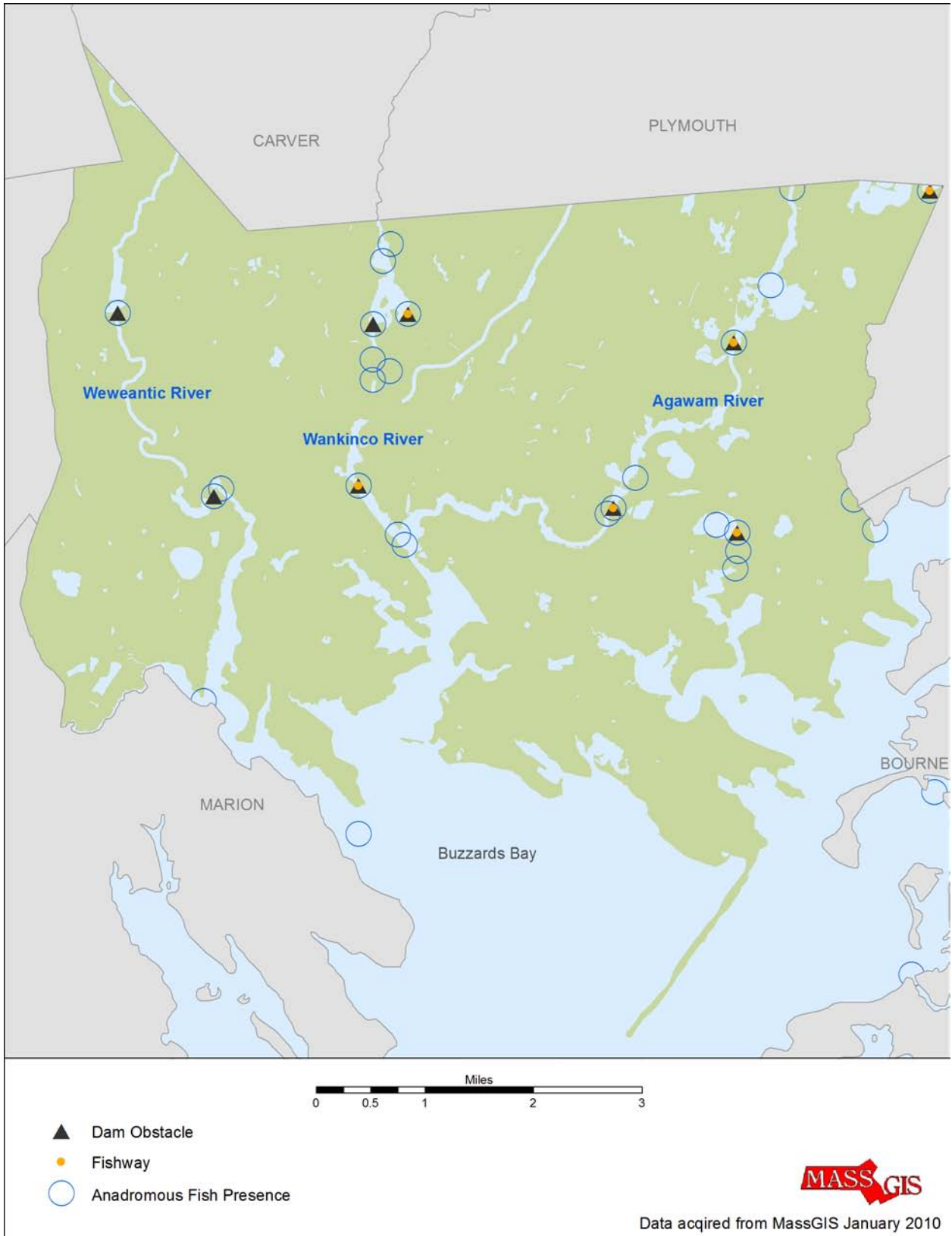
MAP 14—SALT MARSHES AND BARRIER BEACHES



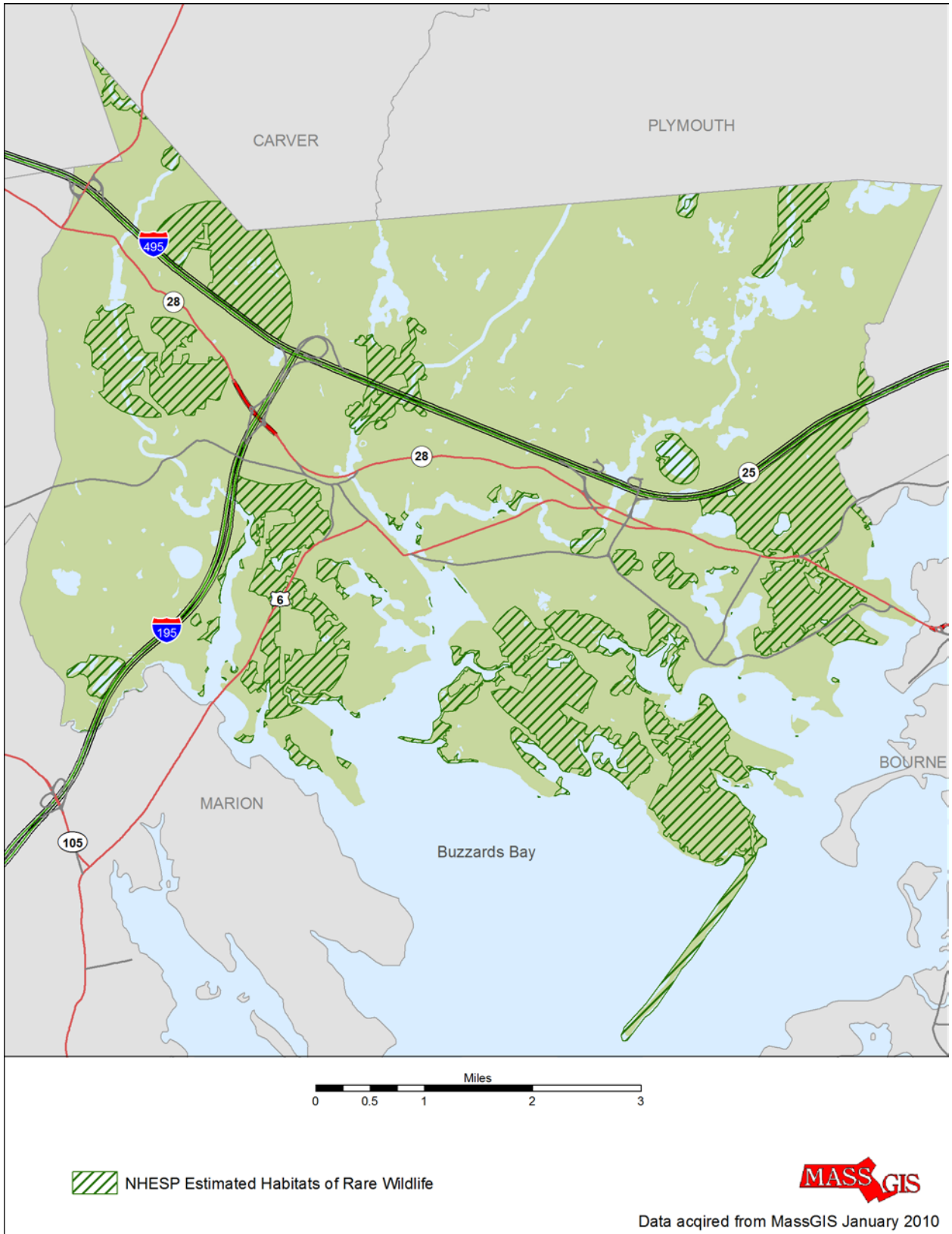
MAP 15—FLOOD HAZARD AREAS



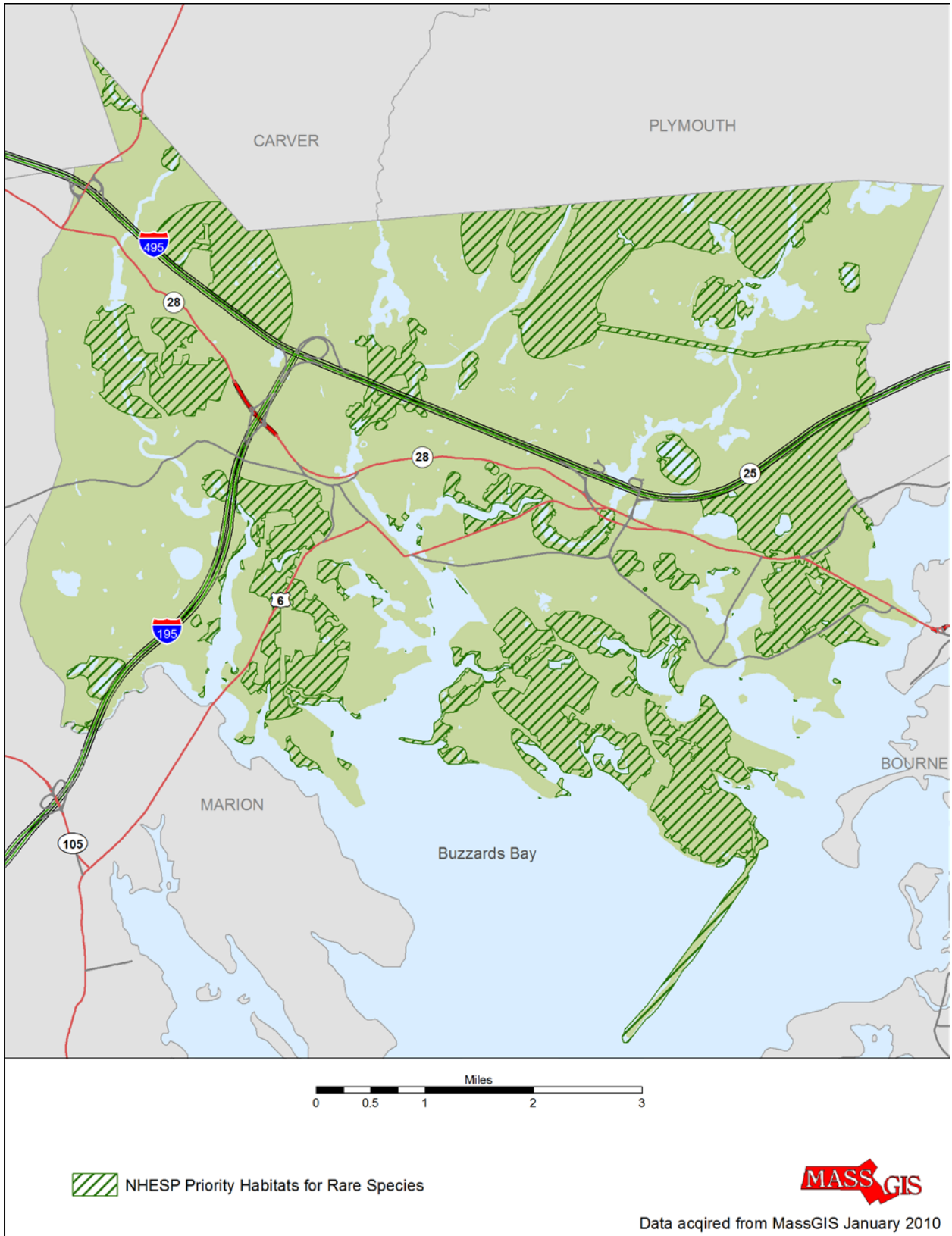
MAP 16—PLYMOUTH-CARVER SOLE SOURCE AQUIFER



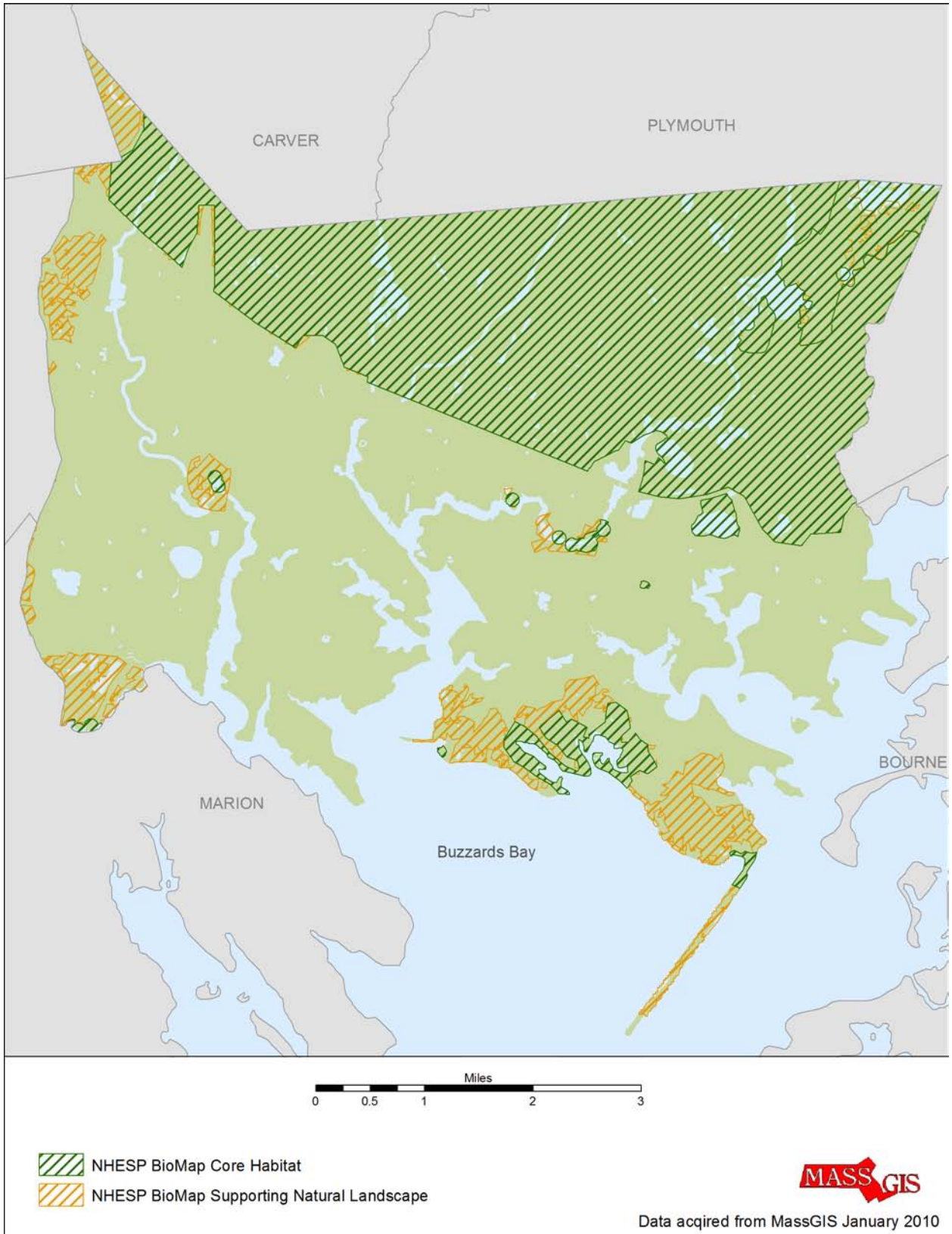
MAP 17—ANADROMOUS FISH



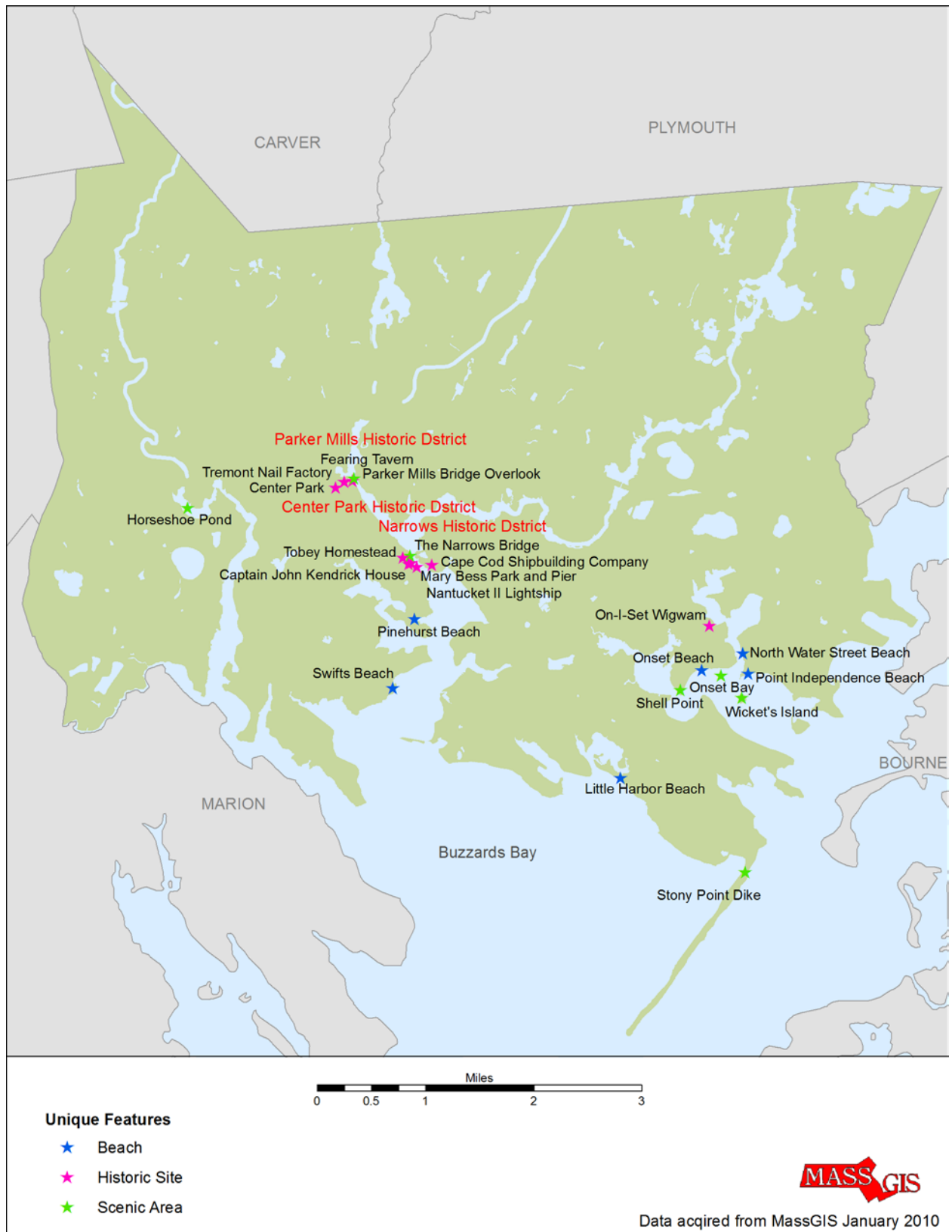
MAP 18—NHESP ESTIMATED HABITATS OF RARE WILDLIFE



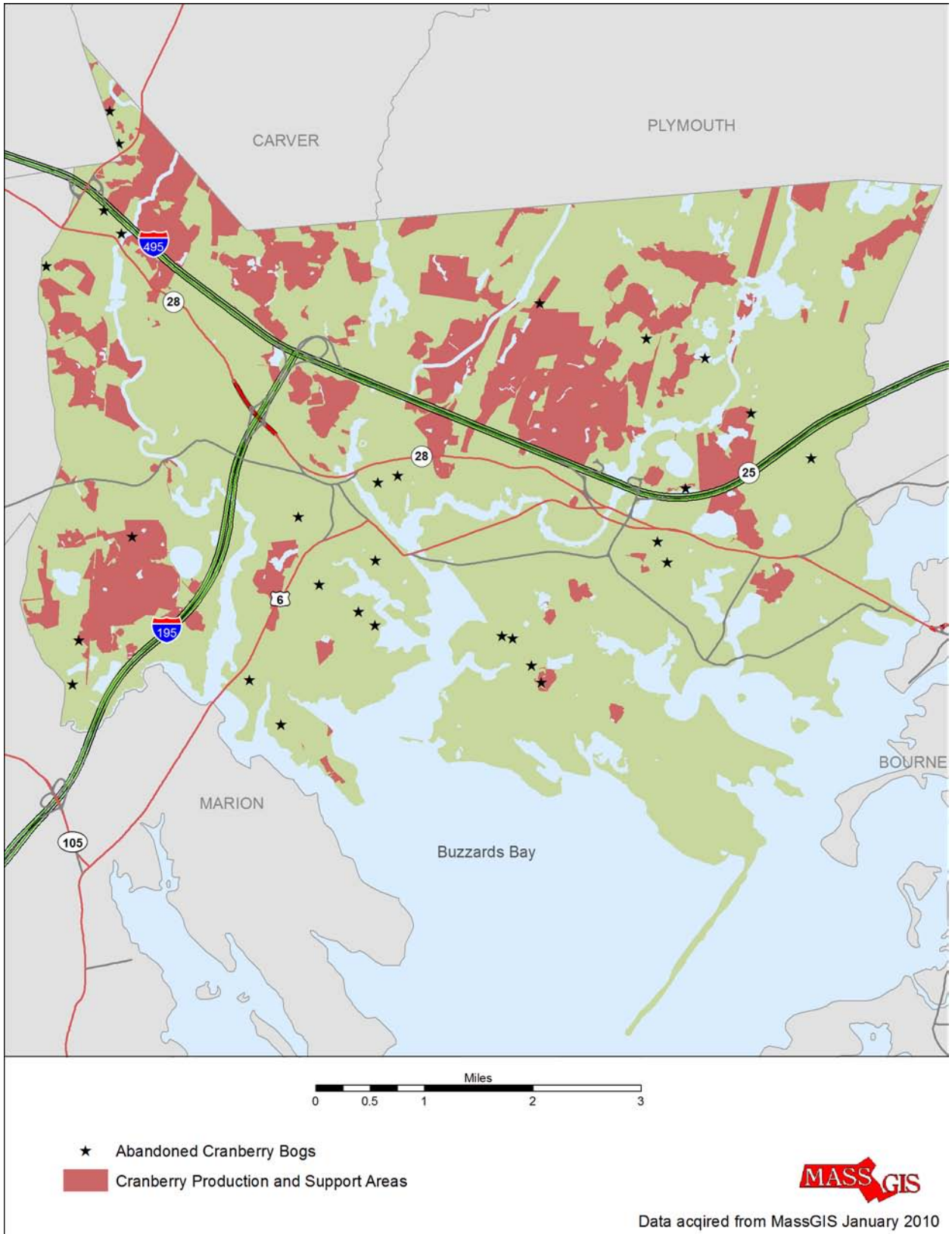
MAP 19—NHESP PRIORITY HABITATS FOR RARE SPECIES



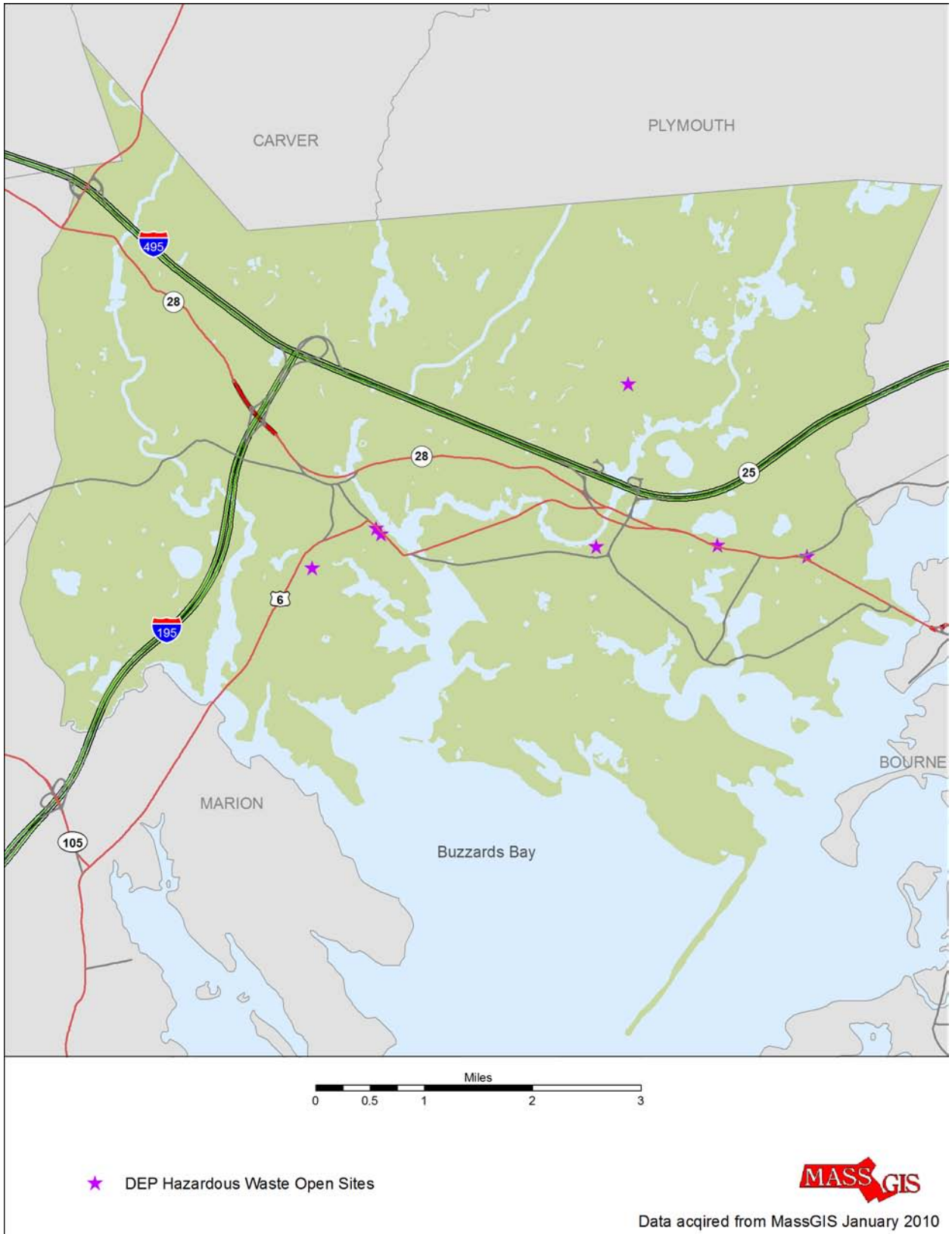
MAP 20—NHESP BioMap



MAP 21—UNIQUE FEATURES



MAP 22—CRANBERRY PRODUCTION AND SUPPORT AREAS



MAP 23—HAZARDOUS WASTE SITES

Section 5 Inventory of Lands of Conservation and Recreation Interest

The value of open space is shown in many ways. Open space protection leads to financial benefits, recreational opportunities, preserves natural resources, and safeguards public health. It provides visual respite, ecological benefits, and has a positive effect on physical and mental health. Open space is critical for maintaining recharge of the Plymouth-Carver Sole Source Aquifer – Wareham's only source of drinking water. Open space supports the continued existence of rare species and critical habitats.

In dollar terms, open space increases the property value of adjacent properties, makes tourism more attractive, and reduces demand for public services. Open space is sound fiscal policy for a municipality. Studies have shown that residential growth contributes to the demand for local services to a greater degree than any other category of land use. Open space can reduce financial burdens on the town—the cost of providing municipal services to newly developed neighborhoods typically outweighs its potential tax revenue and an active Open Space and Recreation Plan makes the town eligible to apply for grants sponsored by the Department of Conservation Services.

Maintaining land as open space is an integral component of preserving the overall quality of life for Wareham's residents. Protected open space ensures that the Town's rural character will be maintained. In this tough economic time, open space acquisition should be continued and, to the extent practical, targeted to encourage efficacious groundwater recharge, stream flow maintenance, and habitat protection.

Responsible and well-planned economic growth is a critical component for a healthy local economy and the overall sustainability of any community, including Wareham. Wareham needs targeted growth and development that will work synergistically with our goals to permanently protect a reasonable level of open space. This effort will enhance the Town and preserve its rural character.

Protected open space is land that is set aside, in perpetuity, for the benefit of all. Unprotected open space provides many of the same benefits as protected open space with one exception; it remains open space only at the discretion of the owners. Unprotected open space can be developed at any time thus losing a valuable resource forever.

Open space in Wareham is protected through a variety of means. To protect private land in perpetuity, the deed must be restricted. A Conservation Restriction is the most common type of deed restriction, but there are others. The following list, although not complete, describes some common methods to protect open space.

Acquisition

The most straightforward way of preserving open space is outright purchase and encumbering the deed with a restriction that will protect it in perpetuity.

Article 97

In 1972, Massachusetts's voters approved an amendment to the Massachusetts Constitution, Article 97, granting people the right to a clean environment. Article 97 requires that any land or easements taken or acquired for natural resource purposes shall not be used for other purpose unless the Massachusetts legislature approves the change by a two-thirds vote. Article 97 is intended to be a legislative 'check' to ensure that lands acquired for conservation purposes were not converted to other inconsistent uses.

Chapter 61

Massachusetts General Law authorizes three tax reduction programs known as: 1) Chapter 61 – the Forestland Act; 2) Chapter 61A – the Farmland Assessment Act; and 3) Chapter 61B – the Recreational Land Act. Property taxes on farm, forest, and open space lands are reduced, provided the owners make a commitment to keep their lands in one or more of those uses and withhold the land from development. These programs retain open space and municipalities have a "right of first

refusal” to acquire lands that are removed from the program at the same price as a named buyer. The three Chapter 61 laws also allow municipalities to assign the right of first refusal to a nonprofit conservation organization or the Commonwealth of Massachusetts and its political subdivisions. Lands in “chapter” protection are not permanently protected. These properties are partially or fully developable at some time in the future. During the first ten years, there is a penalty for removing a property from the program. Nearly all Wareham parcels in the program have passed the inception period. After the first ten years, in order for a property to be developed, the owner would have to pay current year property taxes plus the taxes for the previous four years. As property values and development pressures increase, it is likely that some owners will opt to leave the program and develop their properties.

Conservation Easements

The most traditional tool for conserving private land, a “conservation easement” (also known as a conservation restriction or CR) is a legal agreement between a landowner and a land trust or government agency that permanently limits uses of the land in order to protect its conservation value. A conservation easement allows landowners to continue to own and use their land and they can sell it or pass it on to heirs. In some cases, the deed stipulates that the CR will only be in effect for a period of years, in this case the land is not permanently protected. Without this time-limit restriction, any land that has a conservation restriction in the deed is protected in perpetuity.

Donation of Land

Land may be donated to a land trust, government agency, or municipality for conservation.

Bargain Sale

In a bargain sale, land is sold to a land trust for less than its fair market value. A charitable income tax deduction is allowed based on the difference between the land’s fair market value and its sale price.

Donation with a Lifetime Income (Charitable Trust)

A charitable gift annuity or a charitable remainder unitrust allow a landowner to donate land to a land trust and receive income over the course of their lifetime. Charitable gift annuities and charitable remainder unitrusts are most useful for highly appreciated land, the sale of which would incur high capital gains tax.

Watershed and Aquifer Protection

Lands acquired by municipalities for watershed and aquifer protection are often permanently protected open space under Article 97.

Land of Conservation and Recreation Interest Inventory

The Land of Conservation and Recreation Interest Inventory includes land that has significant value for conservation, recreation, and agriculture, some of this land is protected in perpetuity and some is not. Private, public, and nonprofit landowners are included.

Map 24—Inventory of Open Space is located at the end of Section 5.

The Natural Heritage and Endangered Species Program (NHESP) identifies areas in Wareham that are important for the protection of rare species, habitats vital for rare wildlife, and land that harbors exemplary natural communities. These areas are not included in this inventory, but they are identified in Map 13—NHESP Natural Communities, Map 18—NHESP Estimated Habitats of Rare Wildlife, Map 19—NHESP Priority Habitats for Rare Species, and Map 20—NHESP BioMap. These maps are displayed at the end of Section 4.

Private Parcels inventories significant private holdings including:

- Lands encumbered by a Conservation Restriction
- Land encumbered by a deed restriction specifying conservation or recreation use
- Lands greater than one acre that have some conservation or recreation interest, but are not protected open space
- Forestlands including those held in Chapter 61
- Agricultural property including those held in Chapter 61A
- Private recreation facilities such as golf courses, marinas, and recreational land including those held in Chapter 61B

The Private Parcels inventory consists of privately held land that has conservation or recreation interest. The Private Parcel inventory includes 7,038.6 acres of land but only 189.2 acres, a mere 2.7 percent, is permanently protected open space. The only land protected in perpetuity in the Private Parcels inventory is land encumbered by a Conservation Restriction or other deed restriction. Land in “chapter” protection (Chapter 61, Chapter 61A, and Chapter 61B) is not permanently protected. These properties are partially or fully developable at some time in the future. Almost 78 percent of the agriculture land in Chapter 61A is held by the cranberry industry. Maintaining this land as agriculture and withholding it from development is important to preserving Wareham’s rural character.

Private Parcel Summary

Organization	Acres
Land encumbered by Deed Restrictions	189.2
Chapter 61—Forestland	326.1
Chapter 61A—Cranberry	4,580.5
Chapter 61A—Orchard	6.9
Chapter 61A—Nonproductive land	1,303.3
<u>Total</u> of Agricultural land held in Chapter 61A	<u>5,890.9</u>
Agriculture land <u>not</u> held in Chapter 61A	310.0
Recreational land held in Chapter 61B	120.6
Recreational land <u>not</u> held in Chapter 61B	201.8

For a detailed list, see Table 4: Private Parcels Inventory located in Section 5 A— Private Parcels.

Public Parcels inventories federal, state, and municipal lands and facilities for conservation and recreational use including:

- Conservation and recreational land owned by the Town of Wareham, the Commonwealth of Massachusetts, and the United States of America
- Land acquired for watershed and aquifer protection
- Protected public recreation and conservation areas
- Unprotected public recreation and open space areas
- Other unprotected public land

Information about access for persons with disabilities for the Town of Wareham's recreation areas can be found in Appendix A: ADA Accessibility Self-Evaluation.

Public Parcels Summary

Organization	Acres
U.S. Army Corp of Engineers—Stony Point Dike	84.2
Commonwealth of Massachusetts	636.2
<u>Town of Wareham</u>	
Conservation and Recreation—Protected	538.9
Fire District Land for Water Supply Protection—Protected	716.4
Conservation and Recreation—Not Protected	207.4
Other land—Not Protected	354.5

For a detailed list, see Table 5: Public Parcels Inventory located in Section 5 B— Public and Nonprofit Parcels.

Nonprofit Parcels inventories conservation and recreation land owned by nonprofit organizations including:

- Properties owned by land trusts
- Properties owned by other nonprofit conservation organizations
- Properties owned by nonprofit organizations that support recreation

Nonprofit Parcels Summary

Organization	Acres
Massachusetts Audubon Society	148.4
Trustees of Reservations	97.8
Wareham Land Trust	120.7
Wildlands Trust of SE Massachusetts	313.8
Narragansett Council BSA	53.2
New England Forestry Foundation, Inc.	39.8
Wareham Historical Society	1.0
Wareham Little League, Inc.	11.1
Young Men's Christian Association (YMCA)	14.9

For a detailed list, see Table 6: Nonprofit Parcels Inventory located in Section 5B—Public and Nonprofit Parcels.

A. Private Parcels**TABLE 4: PRIVATE PARCELS INVENTORY**

Private Parcels Owner	Manager	Site Name	Current Use	Public Access	Zone	Level of Protection	Acres	Map -Lot
Eagle Holt Company Inc			Agriculture-Not 61A	No	R60	None	47.1	65-1006
Private Landowner			Agriculture-Not 61A	No	MR30	None	11.3	102-1007C
Private Landowner			Agriculture-Not 61A	No	R60	None	53.3	103-1038
Private Landowner			Agriculture-Not 61A	No		None	6.0	103-1039
Private Landowner			Agriculture-Not 61A	No	R60	None	3.7	110-1006
Private Landowner			Agriculture-Not 61A	No	MR30	None	6.4	115-1021
Private Landowner			Agriculture-Not 61A	No	SC	None	7.1	133-1085B
Private Landowner			Agriculture-Not 61A	No	MR30	None	11.9	14-1002
Private Landowner			Agriculture-Not 61A	No	MR30	None	4.0	14-1006
Private Landowner			Agriculture-Not 61A	No	MR30	None	3.5	14-1018
Private Landowner			Agriculture-Not 61A	No	R60	None	18.4	66-1001
Private Landowner			Agriculture-Not 61A	No	R60	None	3.3	86-1003
Private Landowner			Agriculture-Not 61A	No	MR30	None	3.7	86-B
Private Landowner			Agriculture-Not 61A	No	MR30	None	2.6	90-1007C
Robbins Trout Trust			Agriculture-Not 61A	No	MR30	None	9.4	81-1018
Rounsville Hammond & Rounsville Inc.			Agriculture-Not 61A	No	R130	None	6.4	130-1017
Main Street Realty Trust			Chapter 61A-Cranberry	No	MR30	None	16.2	57-1004A2
Adm Cranberry Company			Chapter 61A-Cranberry	No	R60	None	7.0	106-1004
Baptiste Brothers Ltd			Chapter 61A-Cranberry	No		None	10.5	105-1004
Baptiste Brothers Ltd			Chapter 61A-Cranberry	No		None	3.9	105-1005
Bayside Agricultural Inc			Chapter 61A-Cranberry	No	R130	None	22.7	113-1013B
Bayside Agricultural Inc			Chapter 61A-Cranberry	No	R130	None	54.6	113-1014
Bayside Agricultural Inc			Chapter 61A-Cranberry	No	R130	None	16.6	114-1006
Bayside Agricultural Inc			Chapter 61A-Cranberry	No		None	21.2	115-1001
Bayside Agricultural Inc			Chapter 61A-Cranberry	No		None	34.5	115-1002
Bayside Agricultural Inc			Chapter 61A-Cranberry	No		None	6.8	115-1007
Bayside Agricultural Inc			Chapter 61A-Cranberry	No		None	16.0	115-1008

Private Parcels Owner	Manager	Site Name	Current Use	Public Access	Zone	Level of Protection	Acres	Map -Lot
Bayside Agricultural Inc			Chapter 61A-Cranberry	No		None	6.2	115-1009
Blackmore Cranberry Bogs Inc			Chapter 61A-Cranberry	No		None	9.2	77-1001
Blackmore Cranberry Bogs Inc			Chapter 61A-Cranberry	No	R60	None	6.7	77-1005
Eagle Holt Company Inc			Chapter 61A-Cranberry	No	R60	None	4.0	70-1000
Eagle Holt Company Inc			Chapter 61A-Cranberry	No	R60	None	94.0	70-1001
Eagle Holt Company Inc			Chapter 61A-Cranberry	No	R60	None	14.6	71-1001
Eagle Holt Company Inc			Chapter 61A-Cranberry	No	R60	None	14.2	71-1002
Eagle Holt Company Inc			Chapter 61A-Cranberry	No	R60	None	24.7	71-1003
Eagle Holt Company Inc			Chapter 61A-Cranberry	No	R60	None	6.9	71-1004
Eagle Holt Company Inc			Chapter 61A-Cranberry	No	R60	None	2.5	71-1005
Eagle Holt Company Inc			Chapter 61A-Cranberry	No	R60	None	6.5	71-1006
Eagle Holt Company Inc			Chapter 61A-Cranberry	No	R60	None	1.4	71-1007
Eagle Holt Company Inc			Chapter 61A-Cranberry	No	R60	None	2.2	71-1008
Eagle Holt Company Inc			Chapter 61A-Cranberry	No		None	1.1	72-1004C
Eagle Holt Company Inc			Chapter 61A-Cranberry	No	R60	None	24.4	72-1006
Eagle Holt Company Inc			Chapter 61A-Cranberry	No	R60	None	11.4	72-1007
Eagle Holt Company Inc			Chapter 61A-Cranberry	No	R60	None	7.7	72-1008
Eagle Holt Company Inc			Chapter 61A-Cranberry	No	R60	None	9.1	72-1009
Eagle Holt Company Inc			Chapter 61A-Cranberry	No	R60	None	2.8	72-1010
Eagle Holt Company Inc			Chapter 61A-Cranberry	No	R60	None	30.9	72-1015
Eagle Holt Company Inc			Chapter 61A-Cranberry	No	R60	None	5.5	72-1016
Eagle Holt Company Inc			Chapter 61A-Cranberry	No	R60	None	2.2	72-1018
Eagle Holt Company Inc			Chapter 61A-Cranberry	No	R60	None	4.8	72-1019
Eagle Holt Company Inc			Chapter 61A-Cranberry	No	R60	None	1.4	72-1020
Eagle Holt Company Inc			Chapter 61A-Cranberry	No	R60	None	5.4	72-1021
Eagle Holt Company Inc			Chapter 61A-Cranberry	No	R60	None	8.4	72-1022
Eagle Holt Company Inc			Chapter 61A-Cranberry	No	R60	None	60.2	73-1001
Makepeace Co A D			Chapter 61A-Cranberry	No	R60	None	21.4	106-1000B
Makepeace Co A D			Chapter 61A-Cranberry	No	R60	None	4.0	106-1005
Makepeace Co A D			Chapter 61A-Cranberry	No	R60	None	6.4	106-1009

Private Parcels Owner	Manager	Site Name	Current Use	Public Access	Zone	Level of Protection	Acres	Map -Lot
Makepeace Co A D			Chapter 61A-Cranberry	No	R60	None	19.4	106-1012
Makepeace Co A D			Chapter 61A-Cranberry	No	R60	None	20.4	106-1013
Makepeace Co A D			Chapter 61A-Cranberry	No		None	15.1	107-1000
Makepeace Co A D			Chapter 61A-Cranberry	No		None	17.8	107-1001
Makepeace Co A D			Chapter 61A-Cranberry	No		None	5.6	107-1007
Makepeace Co A D			Chapter 61A-Cranberry	No		None	12.5	107-1009
Makepeace Co A D			Chapter 61A-Cranberry	No	IND	None	20.0	108-1006A1
Makepeace Co A D			Chapter 61A-Cranberry	No	R60	None	52.6	109-1000
Makepeace Co A D			Chapter 61A-Cranberry	No	R60	None	154.6	109-1001
Makepeace Co A D			Chapter 61A-Cranberry	No	R60	None	83.1	109-1002
Makepeace Co A D			Chapter 61A-Cranberry	No	R60	None	1.0	109-1013
Makepeace Co A D			Chapter 61A-Cranberry	No		None	2.1	109A-1-1038
Makepeace Co A D			Chapter 61A-Cranberry	No	R60	None	567.5	111-1000
Makepeace Co A D			Chapter 61A-Cranberry	No	R60	None	112.4	112-1000
Makepeace Co A D			Chapter 61A-Cranberry	No	R60	None	52.7	113-1000
Makepeace Co A D			Chapter 61A-Cranberry	No	R60	None	8.5	113-1015
Makepeace Co A D			Chapter 61A-Cranberry	No	R60	None	2.1	113-1016
Makepeace Co A D			Chapter 61A-Cranberry	No	R60	None	37.0	113-1021
Makepeace Co A D			Chapter 61A-Cranberry	No	R60	None	210.0	114-1000
Makepeace Co A D			Chapter 61A-Cranberry	No	R60	None	22.1	114-1001
Makepeace Co A D			Chapter 61A-Cranberry	No	R130	None	92.3	116-1000
Makepeace Co A D			Chapter 61A-Cranberry	No	R130	None	3.8	116-1005
Makepeace Co A D			Chapter 61A-Cranberry	No	R130	None	14.5	116-1006
Makepeace Co A D			Chapter 61A-Cranberry	No	R130	None	99.3	116-1007
Makepeace Co A D			Chapter 61A-Cranberry	No	R130	None	4.2	116-1008
Makepeace Co A D			Chapter 61A-Cranberry	No	R130	None	2.8	116-1009
Makepeace Co A D			Chapter 61A-Cranberry	No	R130	None	81.3	116-1010
Makepeace Co A D			Chapter 61A-Cranberry	No	R130	None	69.4	116-1012
Makepeace Co A D			Chapter 61A-Cranberry	No	R130	None	3.0	116-1013
Makepeace Co A D			Chapter 61A-Cranberry	No	R130	None	2.6	116-1015

Private Parcels Owner	Manager	Site Name	Current Use	Public Access	Zone	Level of Protection	Acres	Map -Lot
Makepeace Co A D			Chapter 61A-Cranberry	No	R130	None	32.0	116-1016
Makepeace Co A D			Chapter 61A-Cranberry	No	R130	None	131.1	117-1001
Makepeace Co A D			Chapter 61A-Cranberry	No	R130	None	60.3	117-1002
Makepeace Co A D			Chapter 61A-Cranberry	No	R130	None	48.8	118-1002
Makepeace Co A D			Chapter 61A-Cranberry	No	R130	None	5.5	125-CA
Makepeace Co A D			Chapter 61A-Cranberry	No	R130	None	7.0	126-1000
Makepeace Co A D			Chapter 61A-Cranberry	No	R130	None	79.1	126-3
Makepeace Co A D			Chapter 61A-Cranberry	No	R130	None	18.9	126-6
Makepeace/F-H Acquisition Corp			Chapter 61A-Cranberry	No	R60	None	3.4	106-1000A
Makepeace/F-H Acquisition Corp			Chapter 61A-Cranberry	No	R60	None	178.5	106-1002
Makepeace/F-H Acquisition Corp			Chapter 61A-Cranberry	No	R60	None	1.8	106-1006
Makepeace/F-H Acquisition Corp			Chapter 61A-Cranberry	No	R60	None	1.3	106-C
Patterson Brook Corp.			Chapter 61A-Cranberry	No		None	2.2	105-1019
Patterson Brook Corp.			Chapter 61A-Cranberry	No	SC	None	20.7	105-1020A
Popes Pond Cranberry Co			Chapter 61A-Cranberry	No	R30	None	21.8	41-1012A
Private Landowner			Chapter 61A-Cranberry	No	MR30	None	2.8	10-1012
Private Landowner			Chapter 61A-Cranberry	No	R60	None	25.0	103-1019A
Private Landowner			Chapter 61A-Cranberry	No	R60	None	1.7	103-1019B
Private Landowner			Chapter 61A-Cranberry	No	R60	None	18.8	103-1032
Private Landowner			Chapter 61A-Cranberry	No		None	5.3	103-1035
Private Landowner			Chapter 61A-Cranberry	No	R60	None	28.3	104-1046
Private Landowner			Chapter 61A-Cranberry	No		None	37.8	104-1049A
Private Landowner			Chapter 61A-Cranberry	No	R60	None	17.1	104-1049B
Private Landowner			Chapter 61A-Cranberry	No	R60	None	18.8	104-1049D
Private Landowner			Chapter 61A-Cranberry	No	R60	None	10.5	104-VB
Private Landowner			Chapter 61A-Cranberry	No	R60	None	156.4	113-1020
Private Landowner			Chapter 61A-Cranberry	No		None	29.6	115-1005
Private Landowner			Chapter 61A-Cranberry	No		None	39.7	115-1011
Private Landowner			Chapter 61A-Cranberry	No		None	41.3	115-1012
Private Landowner			Chapter 61A-Cranberry	No		None	29.3	115-1013

Private Parcels Owner	Manager	Site Name	Current Use	Public Access	Zone	Level of Protection	Acres	Map -Lot
Private Landowner			Chapter 61A-Cranberry	No	R130	None	238.1	115-1014
Private Landowner			Chapter 61A-Cranberry	No		None	3.6	115-1015
Private Landowner			Chapter 61A-Cranberry	No		None	2.2	115-1016
Private Landowner			Chapter 61A-Cranberry	No		None	2.0	115-LC6
Private Landowner			Chapter 61A-Cranberry	No	R130	None	127.0	130-1002
Private Landowner			Chapter 61A-Cranberry	No	R130	None	26.7	130-1006
Private Landowner			Chapter 61A-Cranberry	No	R130	None	25.9	130-1016
Private Landowner			Chapter 61A-Cranberry	No	R130	None	32.9	131-10A
Private Landowner			Chapter 61A-Cranberry	No	R130	None	2.4	131-E1
Private Landowner			Chapter 61A-Cranberry	No	R130	None	3.1	131-F
Private Landowner			Chapter 61A-Cranberry	No	SC	None	12.5	132-1032
Private Landowner			Chapter 61A-Cranberry	No		None	13.1	58-1054
Private Landowner			Chapter 61A-Cranberry	No		None	83.9	59-1027
Private Landowner			Chapter 61A-Cranberry	No	R60	None	28.2	62-1010
Private Landowner			Chapter 61A-Cranberry	No	R60	None	8.9	63-1005B
Private Landowner			Chapter 61A-Cranberry	No	R60	None	2.2	63-1008
Private Landowner			Chapter 61A-Cranberry	No	R60	None	3.6	63-1012
Private Landowner			Chapter 61A-Cranberry	No	R60	None	4.3	64-1001
Private Landowner			Chapter 61A-Cranberry	No	R60	None	36.4	64-1006
Private Landowner			Chapter 61A-Cranberry	No	R60	None	3.7	65-1000B
Private Landowner			Chapter 61A-Cranberry	No	R60	None	6.0	69-1004A
Private Landowner			Chapter 61A-Cranberry	No	R60	None	12.2	72-1011
Private Landowner			Chapter 61A-Cranberry	No	R60	None	5.4	93-LCA
Private Landowner			Chapter 61A-Cranberry	No	MR30	None	19.0	96-1007
Private Landowner			Chapter 61A-Cranberry	No	MR30	None	3.3	97-1028
Private Landowner			Chapter 61A-Cranberry	No	MR30	None	7.8	98-1004
Private Landowner			Chapter 61A-Cranberry	No	MR30	None	9.6	98-1012
Private Landowner			Chapter 61A-Cranberry	No	MR30	None	2.1	98-1013
Private Landowner			Chapter 61A-Cranberry	No	MR30	None	1.2	98-1014
Private Landowner			Chapter 61A-Cranberry	No	MR30	None	3.8	98-1017

Private Parcels Owner	Manager	Site Name	Current Use	Public Access	Zone	Level of Protection	Acres	Map -Lot
Private Landowner			Chapter 61A-Cranberry	No	MR30	None	8.2	98-1018
Private Landowner			Chapter 61A-Cranberry	No	MR30	None	44.4	99-1023
Slocum-Gibbs Cranberry			Chapter 61A-Cranberry	No	SC	None	15.4	104-1039
Slocum-Gibbs Cranberry			Chapter 61A-Cranberry	No	R60	None	6.9	104-1A
Slocum-Gibbs Cranberry			Chapter 61A-Cranberry	No	R60	None	1.3	104-1B
Slocum-Gibbs Cranberry			Chapter 61A-Cranberry	No	R60	None	23.8	104-A
Slocum-Gibbs Cranberry			Chapter 61A-Cranberry	No	R60	None	1.3	104-D
Slocum-Gibbs Cranberry			Chapter 61A-Cranberry	No	R60	None	3.0	104-F
Slocum-Gibbs Cranberry			Chapter 61A-Cranberry	No	R60	None	10.7	104-G
Slocum-Gibbs Cranberry			Chapter 61A-Cranberry	No	R60	None	1.0	104-H
Slocum-Gibbs Cranberry			Chapter 61A-Cranberry	No	R60	None	14.7	104-J
Slocum-Gibbs Cranberry			Chapter 61A-Cranberry	No	R60	None	12.0	104-K2
Slocum-Gibbs Cranberry			Chapter 61A-Cranberry	No	R60	None	15.3	104-M
Tremont Cranberry Company LLC			Chapter 61A-Cranberry	No		None	30.0	92-1007
Tweedy & Barnes Co			Chapter 61A-Cranberry	No	SC	None	52.8	110-1068
Tweedy & Barnes Co			Chapter 61A-Cranberry	No	MR30	None	6.7	110-1070B
Tweedy & Barnes Co			Chapter 61A-Cranberry	No	R60	None	61.2	113-1018
Tweedy & Barnes Co			Chapter 61A-Cranberry	No	R60	None	2.3	94-1014
Tweedy & Barnes Co			Chapter 61A-Cranberry	No	R60	None	9.1	94-1015
Tweedy & Barnes Co			Chapter 61A-Cranberry	No		None	6.0	95-1006
Tweedy & Barnes Co			Chapter 61A-Cranberry	No		None	48.7	95-1013H
Bayside Agricultural Inc			Chapter 61A-Land	No	MR30	None	9.0	110-1072
Bayside Agricultural Inc			Chapter 61A-Land	No		None	15.9	113-1012
Bayside Agricultural Inc			Chapter 61A-Land	No	R130	None	2.3	113-1013C
Bayside Agricultural Inc			Chapter 61A-Land	No	R130	None	1.0	113-1027
Bayside Agricultural Inc			Chapter 61A-Land	No	R130	None	1.2	113-P1013B
Bayside Agricultural Inc			Chapter 61A-Land	No		None	1.8	115-1001P
Bayside Agricultural Inc			Chapter 61A-Land	No		None	4.4	115-1003
Bayside Agricultural Inc			Chapter 61A-Land	No		None	5.6	115-1006
Bayside Agricultural Inc			Chapter 61A-Land	No	R130	None	92.7	126-1005A

Private Parcels Owner	Manager	Site Name	Current Use	Public Access	Zone	Level of Protection	Acres	Map -Lot
Bensons Pond Inc			Chapter 61A-Land	No	R60	None	1.1	103-1047
Eagle Holt Company Inc			Chapter 61A-Land	No	R60	None	3.0	63-CA
Eagle Holt Company Inc			Chapter 61A-Land	No	R60	None	3.0	64-1005
Eagle Holt Company Inc			Chapter 61A-Land	No	R60	None	8.7	65-1007
Eagle Holt Company Inc			Chapter 61A-Land	No	R60	None	6.3	65-1011
Eagle Holt Company Inc			Chapter 61A-Land	No	R60	None	2.8	68-1014
Eagle Holt Company Inc			Chapter 61A-Land	No	R60	None	15.3	69-1002
Eagle Holt Company Inc			Chapter 61A-Land	No	R60	None	10.3	70-1002
Eagle Holt Company Inc			Chapter 61A-Land	No	R60	None	4.4	70-1003
Eagle Holt Company Inc			Chapter 61A-Land	No	R60	None	2.2	72-1017
Eagle Holt Company Inc			Chapter 61A-Land	No	R60	None	2.0	73-1003
Eagle Holt Company Inc			Chapter 61A-Land	No	R60	None	1.6	73-1005
Eagle Holt Company Inc			Chapter 61A-Land	No	R60	None	8.0	75-1005
Eagle Holt Company Inc			Chapter 61A-Land	No		None	15.2	77-1006
Makepeace Co A D			Chapter 61A-Land	No		None	6.5	105-1013
Makepeace Co A D			Chapter 61A-Land	No		None	27.2	105-1014
Makepeace Co A D			Chapter 61A-Land	No	R60	None	3.1	106-B
Makepeace Co A D			Chapter 61A-Land	No		None	16.5	107-1003
Makepeace Co A D			Chapter 61A-Land	No		None	22.4	107-1004
Makepeace Co A D			Chapter 61A-Land	No		None	1.5	107-1006
Makepeace Co A D			Chapter 61A-Land	No		None	7.5	107-1008
Makepeace Co A D			Chapter 61A-Land	No		None	1.3	107-1010
Makepeace Co A D			Chapter 61A-Land	No		None	6.6	108-1008P
Makepeace Co A D			Chapter 61A-Land	No	R60	None	1.6	109-1051
Makepeace Co A D			Chapter 61A-Land	No	R60	None	1.4	109-1053
Makepeace Co A D			Chapter 61A-Land	No	R60	None	1.5	110-1000
Makepeace Co A D			Chapter 61A-Land	No	R60	None	1.6	110-1008
Makepeace Co A D			Chapter 61A-Land	No	R60	None	1.1	110-1014
Makepeace Co A D			Chapter 61A-Land	No	R60	None	129.8	110-1015
Makepeace Co A D			Chapter 61A-Land	No	MR30	None	25.7	110-1016

Private Parcels Owner	Manager	Site Name	Current Use	Public Access	Zone	Level of Protection	Acres	Map -Lot
Makepeace Co A D			Chapter 61A-Land	No	R60	None	8.5	110-1024
Makepeace Co A D			Chapter 61A-Land	No	R60	None	5.5	113-1017
Makepeace Co A D			Chapter 61A-Land	No	R60	None	20.8	114-1002
Makepeace Co A D			Chapter 61A-Land	No	R130	None	12.3	114-1008
Makepeace Co A D			Chapter 61A-Land	No	R130	None	23.0	116-1001
Makepeace Co A D			Chapter 61A-Land	No	R130	None	67.3	116-1002
Makepeace Co A D			Chapter 61A-Land	No	R130	None	4.7	116-1004
Makepeace Co A D			Chapter 61A-Land	No	R130	None	11.4	116-1011
Makepeace Co A D			Chapter 61A-Land	No	R130	None	3.7	117-1000
Makepeace Co A D			Chapter 61A-Land	No	R130	None	53.6	117-1003
Makepeace Co A D			Chapter 61A-Land	No	R130	None	1.0	117-1006
Makepeace Co A D			Chapter 61A-Land	No	R130	None	13.1	117-1007
Makepeace Co A D			Chapter 61A-Land	No	R130	None	41.6	117-1009
Makepeace Co A D			Chapter 61A-Land	No	R130	None	23.2	126-16
Makepeace Co A D			Chapter 61A-Land	No	R130	None	2.2	127-1001
Makepeace Co A D			Chapter 61A-Land	No	R130	None	48.5	127-1002
Makepeace Co A D			Chapter 61A-Land	No	R130	None	1.9	127-1003
Makepeace Co A D			Chapter 61A-Land	No	R130	None	6.6	127-1005
Makepeace Co A D			Chapter 61A-Land	No	R130	None	4.5	128-1004
Makepeace Co A D			Chapter 61A-Land	No	R130	None	1.6	129-1000A
Makepeace Co A D			Chapter 61A-Land	No	R130	None	4.7	129-1000B
Makepeace Co A D			Chapter 61A-Land	No	R130	None	320.4	129-1161
Makepeace/F-H Acquisition Corp			Chapter 61A-Land	No	R60	None	6.1	106-A
Patterson Brook Corporation			Chapter 61A-Land	No		None	14.0	105-1008
Patterson Brook Corporation			Chapter 61A-Land	No		None	1.4	105-1018
Private Landowner			Chapter 61A-Land	No	R60	None	4.7	103-1033
Private Landowner			Chapter 61A-Land	No	R60	None	7.5	103-1042
Private Landowner			Chapter 61A-Land	No	R60	None	3.4	104-1050A
Private Landowner			Chapter 61A-Land	No		None	7.0	127-A1
Private Landowner			Chapter 61A-Land	No	R130	None	1.3	130-1005

Private Parcels Owner	Manager	Site Name	Current Use	Public Access	Zone	Level of Protection	Acres	Map -Lot
Private Landowner			Chapter 61A-Land	No	R130	None	1.2	131-1009B
Private Landowner			Chapter 61A-Land	No	R60	None	1.2	62-1000
Private Landowner			Chapter 61A-Land	No	R60	None	1.8	63-1014A
Private Landowner			Chapter 61A-Land	No	R60	None	9.3	63-1018
Private Landowner			Chapter 61A-Land	No	R60	None	1.5	64-1008
Private Landowner			Chapter 61A-Land	No	R60	None	1.8	65-1001
Private Landowner			Chapter 61A-Land	No		None	13.2	77-1002P
Private Landowner			Chapter 61A-Land	No	R60	None	1.1	94-1013
Slocum Gibbs Cranberry			Chapter 61A-Land	No	R60	None	1.1	104-1053
Slocum Gibbs Cranberry			Chapter 61A-Land	No	SC	None	3.7	104-K1
Slocum Gibbs Cranberry			Chapter 61A-Land	No		None	1.6	105-1000
Tremont Cranberry Company LLC			Chapter 61A-Land	No	R60	None	17.3	92-1009
Tweedy & Barnes Co			Chapter 61A-Land	No	R60	None	5.5	110-1039
Tweedy & Barnes Co			Chapter 61A-Land	No	R60	None	2.5	110-1044
Tweedy & Barnes Co			Chapter 61A-Land	No	R60	None	7.4	113-1024
Tweedy & Barnes Co			Chapter 61A-Land	No	R60	None	3.0	94-1011
Tweedy & Barnes Co			Chapter 61A-Land	No	R60	None	3.0	94-1012
Tweedy & Barnes Co			Chapter 61A-Land	No	MR30	None	4.7	96-1001
Tweedy & Barnes Co			Chapter 61A-Land	No	MR30	None	13.3	96-1002
Tweedy & Barnes Co			Chapter 61A-Land	No	MR30	None	3.6	97-1032
Tweedy & Barnes Co			Chapter 61A-Land	No	MR30	None	7.1	97-1035A
Private Landowner			Chapter 61A-Orchard	No	R60	None	6.9	104-VC
Little Harbor Country Club Inc.			Chapter 61B-Golf	Yes; Fee		None	5.2	28-1010
Little Harbor Country Club Inc.			Chapter 61B-Golf	Yes; Fee		None	1.2	28-1014B
Little Harbor Country Club Inc.			Chapter 61B-Golf	Yes; Fee		None	3.1	28-B1
Little Harbor Country Club Inc.			Chapter 61B-Golf	Yes; Fee		None	2.0	28-B8
Parkwood Beach Improvement Ass.			Chapter 61B-Picnic	Yes	R30	None	1.7	38-1001
Parkwood Beach Improvement Ass.			Chapter 61B-Picnic	Yes	R30	None	2.2	38-1002
Parkwood Beach Improvement Ass.			Chapter 61B-Picnic	Yes	R30	None	11.2	38-1003
Parkwood Beach Improvement Ass.			Chapter 61B-Picnic	Yes	R30	None	2.1	38-1004

Private Parcels Owner	Manager	Site Name	Current Use	Public Access	Zone	Level of Protection	Acres	Map -Lot
Parkwood Beach Improvement Ass.			Chapter 61B-Picnic	Yes	R30	None	2.2	38-1005
Private Landowner			Chapter 61B-Recreation	No	R130	None	12.1	128-1006
Private Landowner			Chapter 61B-Recreation	No	R60	None	3.9	31-P1B
Private Landowner			Chapter 61B-Recreation	No	R60	None	17.6	31-P1D
Private Landowner			Chapter 61B-Recreation	No	R60	None	5.3	31-P5
Private Landowner			Chapter 61B-Recreation	No	R60	None	24.3	33-1000
Private Landowner			Chapter 61B-Recreation	No	R60	None	5.4	33-3
Private Landowner			Chapter 61B-Recreation	No	R60	None	15.3	34-A
Private Landowner			Chapter 61B-Recreation	No	R60	None	5.8	36-9A
Gleason Cromesett Land Trust			Chapter 61-Forestland	No	R30	None	19.0	52-P1007
Gleason Cromesett Land Trust			Chapter 61-Forestland	No	R30	None	6.2	51-1001
Makepeace Co A D			Chapter 61-Forestland	No	R60	None	1.4	105-1
Makepeace Co A D			Chapter 61-Forestland	No	R60	None	1.4	105-10
Makepeace Co A D			Chapter 61-Forestland	No		None	70.2	105-1002
Makepeace Co A D			Chapter 61-Forestland	No	R60	None	1.4	105-11
Makepeace Co A D			Chapter 61-Forestland	No	R60	None	1.4	105-12
Makepeace Co A D			Chapter 61-Forestland	No	R60	None	1.4	105-13
Makepeace Co A D			Chapter 61-Forestland	No	R60	None	1.4	105-14
Makepeace Co A D			Chapter 61-Forestland	No	R60	None	1.4	105-15
Makepeace Co A D			Chapter 61-Forestland	No	R60	None	1.4	105-16
Makepeace Co A D			Chapter 61-Forestland	No	R60	None	1.4	105-17
Makepeace Co A D			Chapter 61-Forestland	No	R60	None	1.4	105-2
Makepeace Co A D			Chapter 61-Forestland	No	R60	None	1.4	105-3
Makepeace Co A D			Chapter 61-Forestland	No	R60	None	1.4	105-4
Makepeace Co A D			Chapter 61-Forestland	No	R60	None	1.4	105-5
Makepeace Co A D			Chapter 61-Forestland	No	R60	None	1.4	105-6
Makepeace Co A D			Chapter 61-Forestland	No	R60	None	1.4	105-7
Makepeace Co A D			Chapter 61-Forestland	No	R60	None	1.4	105-8
Makepeace Co A D			Chapter 61-Forestland	No	R60	None	1.4	105-9
Private Landowner			Chapter 61-Forestland	No	R30	None	13.1	11-34A

Private Parcels Owner	Manager	Site Name	Current Use	Public Access	Zone	Level of Protection	Acres	Map -Lot
Private Landowner			Chapter 61-Forestland	No	R30	None	2.7	11-6A
Private Landowner			Chapter 61-Forestland	No	R130	None	14.6	130-A1
Private Landowner			Chapter 61-Forestland	No	R30	None	4.7	51-1004A
Private Landowner			Chapter 61-Forestland	No	R30	None	3.9	51-P1007A
Private Landowner			Chapter 61-Forestland	No	R60	None	9.4	52-P11A
Private Landowner			Chapter 61-Forestland	No	R60	None	3.2	67-1012P
Private Landowner			Chapter 61-Forestland	No	R60	None	2.7	67-1013P
Private Landowner			Chapter 61-Forestland	No	MR30	None	20.4	96-1005P
Private Landowner			Chapter 61-Forestland	No	MR30	None	24.4	97-1031
Private Landowner			Chapter 61-Forestland	No	MR30	None	7.9	98-1004P
Private Landowner			Chapter 61-Forestland	No	MR30	None	12.4	98-1011P
Private Landowner			Chapter 61-Forestland	No	MR30	None	5.8	98-1013P
Private Landowner			Chapter 61-Forestland	No	MR30	None	4.6	98-1015
Private Landowner			Chapter 61-Forestland	No	MR30	None	6.3	98-1031
Slocum Gibbs Cranberry			Chapter 61-Forestland	No		None	4.0	105-1000P
Slocum-Gibbs Cranberry			Chapter 61-Forestland	No	R60	None	30.2	104-PTA
Slocum-Gibbs Cranberry			Chapter 61-Forestland	No	R60	None	6.9	104-PTC
Slocum-Gibbs Cranberry			Chapter 61-Forestland	No	R60	None	2.2	104-PTF
Slocum-Gibbs Cranberry			Chapter 61-Forestland	No	SC	None	3.3	104-PTK1
Slocum-Gibbs Cranberry			Chapter 61-Forestland	No	R60	None	23.4	104-PTK2
Slocum-Gibbs Cranberry			Chapter 61-Forestland	No	R60	None	1.2	104-PTE
Adm Maple Springs LLC			Conservation	Yes	R130	None	1.6	126-M1
Adm Maple Springs LLC			Conservation	Yes	R130	None	1.2	126-M2
Adm Maple Springs LLC			Conservation	Yes	R130	None	1.1	126-M27
Adm Maple Springs LLC			Conservation	Yes	R130	None	1.0	126-M28
Adm Maple Springs LLC			Conservation	Yes	R130	None	1.1	126-M3
Adm Maple Springs LLC			Conservation	Yes	R130	None	102.1	126-MA
Adm Maple Springs LLC			Conservation	Yes	R130	None	2.9	126-MD
Adm Maple Springs LLC			Conservation	Yes	R130	None	1.1	126-M18
Indian Neck Land Conservation	Wildlands Trust of SE Massachusetts	Indian Neck CR	Conservation	Yes	R60	Protected	34.4	33-IA

Private Parcels Owner	Manager	Site Name	Current Use	Public Access	Zone	Level of Protection	Acres	Map -Lot
Private Landowner	Wildlands Trust of SE Massachusetts	Truran CR	Conservation	Yes	R131	Protected	3.1	129-1005A
Private Landowner	Wildlands Trust of SE Massachusetts	Truran CR	Conservation	Yes	R130	Protected	7.9	129-1018
Private Landowner	Wareham Conservation Commission	Decas CR	Conservation	Yes	R60	Protected	15.5	21-D
Private Landowner	Wareham Land Trust	Barker CR	Conservation	Yes	R60	Protected	19.6	27-1000
Private Landowner	Wildlands Trust of SE Massachusetts	S. Gray CR	Conservation	Yes	R60	Protected	1.8	31-1A
Private Landowner	Wildlands Trust of SE Massachusetts	J. Gray CR	Conservation	Yes	R60	Protected	2.0	31-4-B
Private Landowner	Wildlands Trust of SE Massachusetts	Peirce-Bourne's Cove CR	Conservation	Yes	R60	Protected	2.9	31-A
Private Landowner	Wareham Land Trust	Choate Indian Neck CR	Conservation	Yes	R60	Protected	3.4	33-8
Private Landowner	Wareham Land Trust	CR	Conservation	Yes	R60	Protected	3.4	33-8
Private Landowner	Wareham Land Trust	Baldwin Bourne Cove CR	Conservation	Yes	R60	Protected	4.3	36-P2
Private Landowner	Wildlands Trust of SE Massachusetts	Woods at Great Neck	Conservation	Yes	R30	Term deed restriction	4.1	37-1003
Private Landowner	Wildlands Trust of SE Massachusetts	Crooked River CR	Conservation	Yes	R60	Protected	34.6	37-B
Private Landowner	Wareham Land Trust	Gleason CR	Conservation	Yes	R30	Protected	4.4	51-1007
Private Landowner	Wareham Land Trust	Zine CR	Conservation	Yes	MR30	Protected	3.8	90-1032
Private Landowner	Wareham Land Trust	Phinney CR	Conservation	Yes	MR30	Protected	5.2	90-1034
Little Harbor Country Club			Golf Course	Yes; Fee		None	18.9	28-1001
MLG Golf LLC			Golf Course	Yes; Fee	CNRC	None	137.5	2-1004A
Noble Golf LLC			Golf Course	Yes; Fee	MR30	None	13.8	44-1006C
Private Landowner			Golf Course	Yes; Fee	MR30	None	2.0	8-1029P
Onset Bay Corporation			Marina	Yes; Fee	MRN	None	1.4	3-1014
Pt Independence Yacht Club Inc			Marina	Yes; Fee	MR30	None	2.3	2-1003
Zecco Marine LLC			Marina	Yes; Fee	MRN	None	12.3	46-1002
Wareham Athletic Association Corp.			Recreation	Yes; Fee	R130	None	7.0	115-1018
Water Wizz of Cape Cod			Recreation	Yes; Fee	SC	None	6.7	12-LC36

TABLE 4: PRIVATE PARCELS INVENTORY

B. Public and Nonprofit Parcels**TABLE 5: PUBLIC PARCELS INVENTORY**

Public Parcels Owner	Manager	Site Name	Current Use	Public Access	Condition	Recreation Potential	Zone	Grant Type	Level of Protection	Acres	Map-Lot
Commonwealth of Massachusetts	Department of Fish & Game	Agawam Mill Pond Access	Recreation	Yes	Good	Good			Protected	1.4	129-1074
Commonwealth of Massachusetts	Department of Fish & Game	Century Bog	Conservation	Yes	Good	Good	R130	Env.Bond	Protected	176.0	125-1001
Commonwealth of Massachusetts	Department of Fish & Game	Maple Springs Wildlife Management Area	Conservation	No	Good	Good			Protected	83.9	117-L2
Commonwealth of Massachusetts	Department of Fish & Game	Maple Springs Wildlife Management Area	Conservation	No	Good	Good			Protected	47.5	117-L2
Commonwealth of Massachusetts	Department of Fish & Game	Redbrook Reserve	Conservation	Yes	Good	Good	R130		Protected	300.0	128-1010
Commonwealth of Massachusetts	Department of Fish & Game	Spectacle Pond Area	Conservation	Yes	Good	Good	R130		Protected	0.3	129-1013
Commonwealth of Massachusetts	Department of Fish & Game	Spectacle Pond Area	Conservation	Yes	Good	Good	R130		Protected	0.1	129-1014
Commonwealth of Massachusetts	Department of Fish & Game	Spectacle Pond Area	Conservation	Yes	Good	Good	R130		Protected	0.1	129-1015
Commonwealth of Massachusetts	Massachusetts Highway Department	I 195 Boat Ramp Area	Recreation	Yes	Good	Good			None	26.9	77-1007
Town of Wareham	Minot Forest Committee	Minot Forest	Conservation	Yes	Good	Good	R30		Protected	0.9	39-1003
Town of Wareham	Minot Forest Committee	Minot Forest	Conservation	Yes	Good	Good	R30		Protected	13.7	39-1005
Town of Wareham	Minot Forest Committee	Minot Forest	Conservation	Yes	Good	Good	R30		Protected	38.0	39-1006
Town of Wareham	Minot Forest Committee	Minot Forest	Conservation	Yes	Good	Good	R43		Protected	6.7	39-J
Town of Wareham	Minot Forest Committee	Minot Forest	Conservation	Yes	Good	Good	R30		Protected	10.7	39-L
Town of Wareham	Minot Forest Committee	Minot Forest	Conservation	Yes	Good	Good	R30		Protected	21.9	40-1011
Town of Wareham	Minot Forest Committee	Minot Forest	Conservation	Yes	Good	Good	R30		Protected	5.6	40-1019
Town of Wareham	Minot Forest Committee	Minot Forest	Conservation	Yes	Good	Good	R30		Protected	94.4	42-1000
Town of Wareham	Minot Forest Committee	Minot Forest	Conservation	Yes	Good	Good	MR30		Protected	1.8	44-1001
Town of Wareham	Municipal Maintenance	Beach on Riverside Drive	Recreation	Yes	Good	Good	R30		Protected	2.7	11-B
Town of Wareham	Municipal Maintenance	Carver Road Tennis Courts	Recreation	Yes	Fair	Fair	MR30		None	2.6	100-1022
Town of Wareham	Municipal Maintenance	Center Park	Recreation	Yes	Good	Good	MR30		None	0.5	61-1037
Town of Wareham	Municipal Maintenance	Crescent Park	Recreation	Yes	Fair	Fair	OVR		None	0.6	1-1024
Town of Wareham	Municipal Maintenance	Ellis Playground	Recreation	Yes	Good	Good	OVR		None	2.0	1-1023
Town of Wareham	Municipal Maintenance	Indian Mound Playground	Recreation	Yes	Good	Good	R130		Protected	2.9	131-F1
Town of Wareham	Municipal Maintenance	Leonard C. Lopes Playground	Recreation	Yes	Good	Good	OVR		None	4.6	1-1031
Town of Wareham	Municipal Maintenance	Little Harbor Beach	Recreation	Yes; Fee	Good	Good	R60		None	6.2	28-1004
Town of Wareham	Municipal Maintenance	Little Harbor Wildland	Conservation	Yes	Good	Good	R60		None	21.7	29-1004
Town of Wareham	Municipal Maintenance	Longwood Park	Recreation	Yes	Good	Good	OVR		None	0.4	1-1049
Town of Wareham	Municipal Maintenance	Mary Besse Park & Pier	Recreation	Yes	Good	Good	WRVL		Protected	0.8	47-1127
Town of Wareham	Municipal Maintenance	Mary Besse Park & Pier	Recreation	Yes	Good	Good	WRVL		Protected	0.6	47-1128

Public Parcels Owner	Manager	Site Name	Current Use	Public Access	Condition	Recreation Potential	Zone	Grant Type	Level of Protection	Acres	Map-Lot
Town of Wareham	Municipal Maintenance	Mary Wing Park	Recreation	Yes	Good	Poor	R60		None	0.3	109-1014
Town of Wareham	Municipal Maintenance	Mary Wing Park	Recreation	Yes	Good	Poor	R60		None	1.0	109-1016
Town of Wareham	Municipal Maintenance	Minot Forest School Playground	Recreation	Yes	Good	Good	R30		None	20.9	42-1001
Town of Wareham	Municipal Maintenance	Oakdale Playground	Recreation	Yes	Good	Good	MR30		Protected	1.8	134-F99
Town of Wareham	Municipal Maintenance	Onset Bandstand	Recreation	Yes	Good	Good	OVC		None	9.6	1-1048
Town of Wareham	Municipal Maintenance	Onset Beach	Recreation	Yes	Good	Good	OVC		Protected	0.03	1-1005
Town of Wareham	Municipal Maintenance	Onset Beach	Recreation	Yes	Good	Good	OVC		Protected	0.1	1-1006
Town of Wareham	Municipal Maintenance	Onset Beach	Recreation	Yes	Good	Good	OVC		Protected	0.3	1-1052A
Town of Wareham	Municipal Maintenance	Onset Beach	Recreation	Yes	Good	Good	OVC		Protected	1.4	1-1052B
Town of Wareham	Municipal Maintenance	Onset Beach	Recreation	Yes	Good	Good	OVC		Protected	1.6	1-1054
Town of Wareham	Municipal Maintenance	Park at Onset Avenue	Recreation	Yes	Good	Poor	SC		None	0.1	17-1000
Town of Wareham	Municipal Maintenance	Park on Elm Street	Recreation	Yes	Good	Poor	SC		None	0.2	132-1005A
Town of Wareham	Municipal Maintenance	Park on Elm Street	Recreation	Yes	Good	Poor	SC		None	0.03	132-1005B
Town of Wareham	Municipal Maintenance	Point Independence	Recreation	Yes	Good	Good	OVR		None	2.3	2-1006
Town of Wareham	Municipal Maintenance	Point Independence Beach	Recreation	Yes	Good	Good	MR30		None	0.4	3-1033A
Town of Wareham	Municipal Maintenance	Point Independence Beach	Recreation	Yes	Good	Good	MR30		None	0.7	3-1033B
Town of Wareham	Municipal Maintenance	Prospect Park	Recreation	Yes	Fair	Good	OVC		Protected	0.7	1-1000
Town of Wareham	Municipal Maintenance	Prospect Park	Recreation	Yes	Fair	Good	OVC		Protected	3.6	1-1002
Town of Wareham	Municipal Maintenance	Prospect Park	Recreation	Yes	Fair	Good	OVC		Protected	0.0	1-1003
Town of Wareham	Municipal Maintenance	Prospect Park	Recreation	Yes	Fair	Good	OVC		Protected	0.0	1-1004
Town of Wareham	Municipal Maintenance	Richard Brown Sr. Tennis Courts	Recreation	Yes	Fair	Good	OVR		Protected	2.3	1-1019
Town of Wareham	Municipal Maintenance	Richard H. Arrunda Playground	Recreation	Yes	Good	Good	MR30		None	2.8	61-1162
Town of Wareham	Municipal Maintenance	Shangri-la Playground	Recreation	Yes	Fair	Good	R130		None	1.5	119-1002
Town of Wareham	Municipal Maintenance	Swifts Beach	Recreation	Yes, Fee	Good	Good	R30		None	1.7	50A-C9
Town of Wareham	Municipal Maintenance	Swifts Beach	Recreation	Yes, Fee	Good	Good	R30		None	5.4	50B-2-B1
Town of Wareham	Municipal Maintenance	Swifts Beach	Recreation	Yes, Fee	Good	Good	R30		None	0.2	50B-2-B2
Town of Wareham	Municipal Maintenance	Swifts Beach	Recreation	Yes, Fee	Good	Good	R30		None	0.2	50B-2-B3
Town of Wareham	Municipal Maintenance	Swifts Beach	Recreation	Yes, Fee	Good	Good	R30		None	0.1	50D-1037
Town of Wareham	Municipal Maintenance	Swifts Beach Playground	Recreation	Yes	Good	Good	R30		None	8.1	50-1031
Town of Wareham	Municipal Maintenance	Tempest Knob Terrace Beach Marina	Recreation	Yes	Good	Good	R30		Term deed restriction	1.2	39-1001
Town of Wareham	Municipal Maintenance	Tremont Mill Pond Area	Recreation	Yes	Poor	Good	SC		None	22.3	101-1000
Town of Wareham	Municipal Maintenance	Tremont Nail Complex	Municipal	Yes	Poor	Good			None	7.2	132-A1
Town of Wareham	Municipal Maintenance	Wabassa Park	Recreation	Yes	Good	Good	OVR		None	0.4	1-1050

Public Parcels Owner	Manager	Site Name	Current Use	Public Access	Condition	Recreation Potential	Zone	Grant Type	Level of Protection	Acres	Map-Lot
Town of Wareham	Municipal Maintenance	Wabun Park	Recreation	Yes	Good	Good	OVR		None	2.2	1-1022A
Town of Wareham	Municipal Maintenance	Wabun Park	Recreation	Yes	Good	Good	OVR		None	0.4	1-1022B
Town of Wareham	Municipal Maintenance	Wabun Square	Recreation	Yes	Good	Poor	OVC		None	0.4	1-1017
Town of Wareham	Municipal Maintenance	Westfield Ball Field	Recreation	Yes	Fair	Good	MR30		None	45.3	105A-90
Town of Wareham	Municipal Maintenance	Weweantic Playground	Recreation	Yes	Fair	Good	MR30		Protected	4.2	58-1031
Town of Wareham	Municipal Maintenance	Weweantic Playground	Recreation	Yes	Fair	Good	MR30		Protected	0.3	58-C6
Town of Wareham	Municipal Maintenance		Municipal	Yes			MR30		None	0.8	100-1016
Town of Wareham	Municipal Maintenance		Municipal	Yes			MR30		None	35.3	100-1029
Town of Wareham	Municipal Maintenance		Municipal	Yes			R60		None	15.5	105-1009
Town of Wareham	Municipal Maintenance		Municipal	Yes			I		None	0.3	108-1006F
Town of Wareham	Municipal Maintenance		Municipal	Yes			I		None	0.0	108-1006P
Town of Wareham	Municipal Maintenance		Municipal	Yes			R60		None	6.3	109-1001A
Town of Wareham	Municipal Maintenance		Municipal	Yes			R60		None	1.3	109-1003
Town of Wareham	Municipal Maintenance		Municipal	Yes			R60		None	1.8	109-1004
Town of Wareham	Municipal Maintenance		Municipal	Yes			R60		None	1.7	109-1005
Town of Wareham	Municipal Maintenance		Municipal	Yes			R60		None	0.1	109-1007
Town of Wareham	Municipal Maintenance		Municipal	Yes			R30		None	0.1	109-1008
Town of Wareham	Municipal Maintenance		Municipal	Yes			R60		None	0.8	109-1009
Town of Wareham	Municipal Maintenance		Municipal	Yes			R60		None	0.1	109-1010
Town of Wareham	Municipal Maintenance		Municipal	Yes			R60		None	2.8	109-1011
Town of Wareham	Municipal Maintenance		Municipal	Yes			R60		None	11.0	109-1012
Town of Wareham	Municipal Maintenance		Municipal	Yes					None	1.3	109A-1-1033
Town of Wareham	Municipal Maintenance		Municipal	Yes			R60		None	9.2	110-1036
Town of Wareham	Municipal Maintenance		Municipal	Yes			R60		None	0.3	110-1042
Town of Wareham	Municipal Maintenance		Municipal	Yes			R60		None	1.7	110-1043
Town of Wareham	Municipal Maintenance		Municipal	Yes			OVR		None	1.0	1-1015A
Town of Wareham	Municipal Maintenance		Municipal	Yes			OVR		None	0.1	1-1015B
Town of Wareham	Municipal Maintenance		Municipal	Yes			OVR		None	0.2	1-1016
Town of Wareham	Municipal Maintenance		Municipal	Yes			OVR		None	1.3	1-1018
Town of Wareham	Municipal Maintenance		Municipal	Yes			OVR		None	0.7	1-1020
Town of Wareham	Municipal Maintenance		Municipal	Yes			OVR		None	3.0	1-1025
Town of Wareham	Municipal Maintenance		Municipal	Yes			OVR		None	1.1	1-1034
Town of Wareham	Municipal Maintenance		Municipal	Yes			OVR		None	1.1	1-1037B

Public Parcels Owner	Manager	Site Name	Current Use	Public Access	Condition	Recreation Potential	Zone	Grant Type	Level of Protection	Acres	Map-Lot
Town of Wareham	Municipal Maintenance		Municipal	Yes			OVR		None	2.8	1-1038
Town of Wareham	Municipal Maintenance		Municipal	Yes			OVR		None	0.6	1-1045
Town of Wareham	Municipal Maintenance		Municipal	Yes			OVR		None	0.2	1-1046
Town of Wareham	Municipal Maintenance		Municipal	Yes			OVR		None	0.2	1-1047
Town of Wareham	Municipal Maintenance		Municipal	Yes			OVC		None	0.1	1-1051
Town of Wareham	Municipal Maintenance		Municipal	Yes			R60		None	0.2	113-1023
Town of Wareham	Municipal Maintenance		Municipal	Yes			R130		None	21.5	113-1029
Town of Wareham	Municipal Maintenance		Municipal	Yes			R130		None	7.4	113-1029P
Town of Wareham	Municipal Maintenance		Municipal	Yes			R60		None	0.3	114B-102
Town of Wareham	Municipal Maintenance		Municipal	Yes			R60		None	0.8	114B-103
Town of Wareham	Municipal Maintenance		Municipal	Yes			R60		None	0.6	114B-90
Town of Wareham	Municipal Maintenance		Municipal	Yes			R60		None	1.1	114B-91
Town of Wareham	Municipal Maintenance		Municipal	Yes			R60		None	1.6	114D-2
Town of Wareham	Municipal Maintenance		Municipal	Yes			R60		None	1.8	114D-4
Town of Wareham	Municipal Maintenance		Municipal	Yes			R130		None	0.2	119-363
Town of Wareham	Municipal Maintenance		Municipal	Yes			R130		None	0.1	119-370
Town of Wareham	Municipal Maintenance		Municipal	Yes			R130		None	0.2	119-441
Town of Wareham	Municipal Maintenance		Municipal	Yes			R130		None	0.1	121-231
Town of Wareham	Municipal Maintenance		Municipal	Yes			R130		None	0.1	122-1637
Town of Wareham	Municipal Maintenance		Municipal	Yes			OVR		None	0.5	1-230
Town of Wareham	Municipal Maintenance		Municipal	Yes			R130		None	0.1	123-122
Town of Wareham	Municipal Maintenance		Municipal	Yes			R130		None	0.3	123-1692
Town of Wareham	Municipal Maintenance		Municipal	Yes			OVR		None	0.2	1-236
Town of Wareham	Municipal Maintenance		Municipal	Yes			R130		None	0.1	124-279
Town of Wareham	Municipal Maintenance		Municipal	Yes			R130		None	0.1	124-280
Town of Wareham	Municipal Maintenance		Municipal	Yes			R130		None	1.5	128-1012
Town of Wareham	Municipal Maintenance		Municipal	Yes			R130		None	1.1	128A-1841
Town of Wareham	Municipal Maintenance		Municipal	Yes			SC		None	0.6	129-1093A
Town of Wareham	Municipal Maintenance		Municipal	Yes			MR30		None	0.2	129-RC
Town of Wareham	Municipal Maintenance		Municipal	Yes			SC		None	0.2	130-1018
Town of Wareham	Municipal Maintenance		Municipal	Yes			MR30		None	1.0	133-1021A
Town of Wareham	Municipal Maintenance		Municipal	Yes			MR30		None	1.0	133-1021B
Town of Wareham	Municipal Maintenance		Municipal	Yes			MR30		None	0.3	134-1097B

Public Parcels Owner	Manager	Site Name	Current Use	Public Access	Condition	Recreation Potential	Zone	Grant Type	Level of Protection	Acres	Map-Lot
Town of Wareham	Municipal Maintenance		Municipal	Yes			SC		None	0.8	134-F110
Town of Wareham	Municipal Maintenance		Municipal	Yes			MR30		None	1.0	13-B
Town of Wareham	Municipal Maintenance		Municipal	Yes			OVR		None	0.0	1-492A
Town of Wareham	Municipal Maintenance		Municipal	Yes			MR30		None	0.3	15-1067
Town of Wareham	Municipal Maintenance		Municipal	Yes			OVC		None	0.1	1-532
Town of Wareham	Municipal Maintenance		Municipal	Yes			OVC		None	0.1	1-533
Town of Wareham	Municipal Maintenance		Municipal	Yes			OVR		None	0.0	1-G9
Town of Wareham	Municipal Maintenance		Municipal	Yes			OVR		None	0.1	1-J6
Town of Wareham	Municipal Maintenance		Municipal	Yes			OVC		None	0.1	2-1010
Town of Wareham	Municipal Maintenance		Municipal	Yes			OVC		None	0.1	2-1011
Town of Wareham	Municipal Maintenance		Municipal	Yes			MR30		None	4.8	2-1025B
Town of Wareham	Municipal Maintenance		Municipal	Yes					None	0.4	28-A1
Town of Wareham	Municipal Maintenance		Municipal	Yes			R60		None	0.2	36-1001A
Town of Wareham	Municipal Maintenance		Municipal	Yes			R60		None	10.2	36-1004B
Town of Wareham	Municipal Maintenance		Municipal	Yes			MR30		None	0.1	3A-4-67A
Town of Wareham	Municipal Maintenance		Municipal	Yes			R30		None	7.2	40-1012
Town of Wareham	Municipal Maintenance		Municipal	Yes			R30		None	6.2	40-1014
Town of Wareham	Municipal Maintenance		Municipal	Yes			R30		None	25.8	41-P1
Town of Wareham	Municipal Maintenance		Municipal	Yes			R31		None	1.2	42-A
Town of Wareham	Municipal Maintenance		Municipal	Yes			R30		None	0.3	42-C
Town of Wareham	Municipal Maintenance		Municipal	Yes			MR30		None	60.9	43-1000
Town of Wareham	Municipal Maintenance		Municipal	Yes			MR30		None	0.9	43-1056
Town of Wareham	Municipal Maintenance		Municipal	Yes			MR30		None	0.3	43-W10
Town of Wareham	Municipal Maintenance		Municipal	Yes			R30		None	0.1	46A-2-188B
Town of Wareham	Municipal Maintenance		Municipal	Yes			MR30		None	0.2	47-1006
Town of Wareham	Municipal Maintenance		Municipal	Yes			MR30		None	0.3	47-1007
Town of Wareham	Municipal Maintenance		Municipal	Yes			MR30		None	1.1	47-1010
Town of Wareham	Municipal Maintenance		Municipal	Yes			MR30		None	1.0	47-1011
Town of Wareham	Municipal Maintenance		Municipal	Yes					None	0.4	47-1107
Town of Wareham	Municipal Maintenance		Municipal	Yes			WRVL		None	0.1	47-1160
Town of Wareham	Municipal Maintenance		Municipal	Yes					None	0.1	47-1161
Town of Wareham	Municipal Maintenance		Municipal	Yes			R30		None	7.4	47-1163B
Town of Wareham	Municipal Maintenance		Municipal	Yes			R30		None	0.2	47-F1

Public Parcels Owner	Manager	Site Name	Current Use	Public Access	Condition	Recreation Potential	Zone	Grant Type	Level of Protection	Acres	Map-Lot
Town of Wareham	Municipal Maintenance		Municipal	Yes			R30		None	2.8	47-F12
Town of Wareham	Municipal Maintenance		Municipal	Yes			R30		None	5.8	47-F5
Town of Wareham	Municipal Maintenance		Municipal	Yes			R30		None	4.2	47-F6
Town of Wareham	Municipal Maintenance		Municipal	Yes			R30		None	2.8	47-F7
Town of Wareham	Municipal Maintenance		Municipal	Yes			R30		None	0.8	48-1000
Town of Wareham	Municipal Maintenance		Municipal	Yes			R30		None	19.9	48-1001P
Town of Wareham	Municipal Maintenance		Municipal	Yes			R30		None	0.3	50D-1036
Town of Wareham	Municipal Maintenance		Municipal	Yes			R30		None	0.1	50D-142
Town of Wareham	Municipal Maintenance		Municipal	Yes			R30		None	0.1	50D-194
Town of Wareham	Municipal Maintenance		Municipal	Yes			R30		None	0.1	50F-141
Town of Wareham	Municipal Maintenance		Municipal	Yes			R30		None	0.2	50F-B1
Town of Wareham	Municipal Maintenance		Municipal	Yes			R30		None	1.6	50F-B4
Town of Wareham	Municipal Maintenance		Municipal	Yes			R43		None	1.2	5-1005
Town of Wareham	Municipal Maintenance		Municipal	Yes			R30		None	0.2	53-1009
Town of Wareham	Municipal Maintenance		Municipal	Yes			R30		None	0.5	53-1010A
Town of Wareham	Municipal Maintenance		Municipal	Yes			MR30		None	0.1	56-1004
Town of Wareham	Municipal Maintenance		Municipal	Yes			MR30		None	6.9	58-1018
Town of Wareham	Municipal Maintenance		Municipal	Yes			SC		None	0.1	6-1001
Town of Wareham	Municipal Maintenance		Municipal	Yes			MR30		None	0.8	61-1012
Town of Wareham	Municipal Maintenance		Municipal	Yes			MR30		None	1.9	61-1175
Town of Wareham	Municipal Maintenance		Municipal	Yes			MR30		None	2.1	61-24
Town of Wareham	Municipal Maintenance		Municipal	Yes			MR30		None	2.4	61-31
Town of Wareham	Municipal Maintenance		Municipal	Yes			MR30		None	0.5	61-36
Town of Wareham	Municipal Maintenance		Municipal	Yes			MR30		None	3.2	61-39
Town of Wareham	Municipal Maintenance		Municipal	Yes			MR30		None	0.4	61-R1
Town of Wareham	Municipal Maintenance		Municipal	Yes			R30		None	5.0	77-1008
Town of Wareham	Municipal Maintenance		Municipal	Yes			MR30		None	0.1	82-1002
Town of Wareham	Municipal Maintenance		Municipal	Yes			MR30		None	0.1	82-1003
Town of Wareham	Municipal Maintenance		Municipal	Yes			MR30		None	0.1	82-1004
Town of Wareham	Municipal Maintenance		Municipal	Yes			MR30		None	2.7	82-1005
Town of Wareham	Municipal Maintenance		Municipal	Yes			SC		None	3.0	84-1029
Town of Wareham	Onset Fire District	Fire District Land	Water Supply Protection	No			CNRC		Protected	0.8	9-1000B
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	48.3	131-1003

Public Parcels Owner	Manager	Site Name	Current Use	Public Access	Condition	Recreation Potential	Zone	Grant Type	Level of Protection	Acres	Map-Lot
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	53.9	131-1004
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	5.9	131-1009
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	3.6	131-1010
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	1.7	131-1011
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	21.9	131-1012
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	62.5	131-1013A
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	1.4	131-1013B
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	7.9	131-1014B
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	0.6	131-1015A
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	82.0	131-1017
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	0.4	131-1018
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	20.0	131-1019A
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			SC		Protected	1.4	131-1022
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			SC		Protected	1.8	131-1023
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	0.8	131-1024
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	10.0	131-1031
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	11.0	131-1047
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	0.1	131-138
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	1.4	131-9A
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	3.6	131-F5B
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	15.5	131-LC7
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	4.4	131-LC8
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	0.8	131-W10
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	0.6	131-W103
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	0.6	131-W125
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	0.6	131-W128
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	0.6	131-W143
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	0.1	131-W146
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	0.8	131-W148
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	1.0	131-W15
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	0.3	131-W163
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	0.4	131-W167
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	0.1	131-W171

Public Parcels Owner	Manager	Site Name	Current Use	Public Access	Condition	Recreation Potential	Zone	Grant Type	Level of Protection	Acres	Map-Lot
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	0.1	131-W181
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	0.8	131-W23
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	0.1	131-W33
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	0.2	131-W5
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	0.1	131-W54
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R131		Protected	0.8	131-W62
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	0.2	131-W75
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	0.1	131-W84
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	0.2	131-W88
Town of Wareham	Onset Fire District	Red Brook Wellfield	Water Supply Protection	No			R130		Protected	1.0	131-W94
Town of Wareham	Onset Fire District	Water Tower	Water Supply Protection	No			CNRC		Protected	4.6	10-1013B
Town of Wareham	Wareham Conservation Commission	Birch Island Conservation Area	Conservation	Yes	Fair	Good	MR30		Protected	20.0	81-1000B
Town of Wareham	Wareham Conservation Commission	Cedar Island	Conservation	Yes	Good	Good	R30		Protected	1.5	52-1002
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	MR30		Protected	0.2	129-1162
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	MR30		Protected	4.3	132-1075
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	MR30		Protected	11.3	14-1003
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	OVR		Protected	0.0	1-492A
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	R30		Protected	1.8	16-1030
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	R60		Protected	0.1	18-1030
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	R61		Protected	3.2	18-1032
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	R60		Protected	0.5	18-1039A
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	R60		Protected	0.2	20-A
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	R30		Protected	3.3	48-1046
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	R30		Protected	3.0	48-1059A
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	R30		Protected	0.4	48-1061
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	R30		Protected	1.0	48-1063A
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	R30		Protected	9.9	48-1064
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	R30		Protected	1.5	48-1067
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	R30		Protected	1.0	48-1068
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	R30		Protected	2.1	49-1009B
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	R30		Protected	0.1	50D-144
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	R30		Protected	0.2	50D-172
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	R30		Protected	0.2	50D-191

Public Parcels Owner	Manager	Site Name	Current Use	Public Access	Condition	Recreation Potential	Zone	Grant Type	Level of Protection	Acres	Map-Lot
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	R30		Protected	0.1	50D-199
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	R30		Protected	0.1	50D-234
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	R30		Protected	0.2	50D-237
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	R30		Protected	0.2	50D-240
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	R30		Protected	2.0	52-1006A
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	R30		Protected	8.6	53-1002
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	R31		Protected	0.7	53-1013
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	R30		Protected	1.8	53-1019
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	MR30		Protected	1.4	54-1003
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	R30		Protected	1.5	54-1008
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	R30		Protected	2.5	54-1011
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	SC		Protected	2.2	58-1006
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	SC		Protected	2.0	58-1008
Town of Wareham	Wareham Conservation Commission	Conservation Commission Land	Conservation	Yes	Good	Good	MR30		Protected	16.0	61-52
Town of Wareham	Wareham Conservation Commission	Helen Palmer Lincoln Conservation Area	Conservation	Yes	Good	Good	MR30		Protected	24.0	80-B8
Town of Wareham	Wareham Conservation Commission	Spectacle Pond Area	Conservation	Yes	Good	Good	R130		Protected	0.1	129-1016
Town of Wareham	Wareham Conservation Commission	Wildlife Sanctuary	Conservation	Yes	Good	Good	MR30		Protected	9.8	133A-D
Town of Wareham	Wareham Conservation Commission / Wareham Land Trust (CR)	Bryant Farm	Conservation	Yes	Good	Good	MR30		Protected	101.3	44-1006B
Town of Wareham	Wareham Fire District	Charge Pond Road Well Site	Water Supply Protection	No			R130		Protected	0.1	114C-1-1000
Town of Wareham	Wareham Fire District	Charge Pond Road Well Site	Water Supply Protection	No			R130		Protected	3.1	114C-1-W11
Town of Wareham	Wareham Fire District	Charge Pond Road Well Site	Water Supply Protection	No			R130		Protected	0.6	114C-2-321
Town of Wareham	Wareham Fire District	Charge Pond Road Well Site	Water Supply Protection	No			R130		Protected	1.4	114C-2-322
Town of Wareham	Wareham Fire District	Charge Pond Road Well Site	Water Supply Protection	No			R130		Protected	0.5	114C-2-324
Town of Wareham	Wareham Fire District	Charge Pond Road Well Site	Water Supply Protection	No			R130		Protected	2.2	114C-2-W10
Town of Wareham	Wareham Fire District	Charge Pond Road Well Site	Water Supply Protection	No			R130		Protected	1.4	114C-2-W9
Town of Wareham	Wareham Fire District	Charge Pond Road Well Site	Water Supply Protection	No			R130		Protected	0.4	114D-1
Town of Wareham	Wareham Fire District	Charge Pond Road Well Site	Water Supply Protection	No			R130		Protected	0.4	114D-1000
Town of Wareham	Wareham Fire District	Charge Pond Road Well Site	Water Supply Protection	No			R131		Protected	7.0	114D-110
Town of Wareham	Wareham Fire District	Charge Pond Road Well Site	Water Supply Protection	No			R132		Protected	7.0	114D-136
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			SC		Protected	2.2	105-1046
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			SC		Protected	2.2	105-B
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			SC		Protected	0.2	105-C

Public Parcels Owner	Manager	Site Name	Current Use	Public Access	Condition	Recreation Potential	Zone	Grant Type	Level of Protection	Acres	Map-Lot
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No					Protected	2.5	109A-1-A1
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	26.8	114-1007
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	69.5	114-1010A
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	55.4	114-1010B
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	0.3	114D-52
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	2.7	114D-W11
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	1.4	114D-W12
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	1.0	114D-W13
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	0.7	114D-W14
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	0.8	114D-W15
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	1.5	114D-W3
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	7.3	114D-W4
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	1.9	114D-W5
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	0.7	114D-W6
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	1.3	114E-368
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	0.6	114E-402
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	12.3	114E-W1
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	23.4	114E-W2
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	1.3	114E-W7
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	2.1	114E-W8
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	11.5	117-1005B
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	0.2	122-1630
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	4.9	126-1
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	2.0	126-1001
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	4.5	126-1002
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	15.9	126-1005B
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	0.7	126-1005C
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	1.0	126-4
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	4.3	126-5
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	5.3	126-A
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	1.9	126-C1A
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R131		Protected	20.9	126-C1B
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	20.9	126-C1B

Public Parcels Owner	Manager	Site Name	Current Use	Public Access	Condition	Recreation Potential	Zone	Grant Type	Level of Protection	Acres	Map-Lot
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R130		Protected	0.9	128-B2
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R60		Protected	2.6	36-61
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			MR30		Protected	0.3	43-1070B
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			R30		Protected	1.2	46-1001
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			WRVL		Protected	0.2	47-1150
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			WRVL		Protected	0.4	47-1151
Town of Wareham	Wareham Fire District	Wareham Fire District Land	Water Supply Protection	No			WRVL		Protected	0.1	47-1154
Town of Wareham	Wareham Land Trust (CR)	Fearing Hill Conservation Area	Conservation	Yes	Good	Good	R60	LAND	Protected	66.3	86-1000
Town of Wareham	Wareham Land Trust (CR)	Murphy Freedom Cranberry Area	Conservation	Yes	Good	Good	R30		Protected	4.8	40-1017
Town of Wareham	Wareham Land Trust (CR)	Murphy Freedom Cranberry Area	Conservation	Yes	Good	Good	R31		Protected	9.7	40-1018
Town of Wareham	Wareham School Department	E. Wareham School Playground	Recreation	Yes	Good	Good	MR30		None	0.2	43-1057
Town of Wareham	Wareham School Department	Decas School / Playground	Recreation	Yes	Good	Good	MR30		None	15.6	82-1001
Town of Wareham	Wareham School Department	Little League Field	Recreation	Yes	Good	Good			None	2.7	47-1009
Town of Wareham	Wareham School Department	Onset School / Playground	Recreation	Yes	Good	Good	OVR		None	0.7	1-1021
Town of Wareham	Wareham School Department	Wareham H.S. Recreation Area	Recreation	Yes	Good	Good			None	8.1	47-1162
Town of Wareham	Wareham School Department	Wareham H.S. Recreation Area	Recreation	Yes	Good	Good	R30		None	2.5	48-1001
own of Wareham	Wareham School Department	Wareham H.S. Recreation Area	Recreation	Yes	Good	Good	MR30		None	11.0	48-1005
Town of Wareham	Wareham School Department	W. Wareham School Playground	Recreation	Yes	Good	Good	MR30		None	1.9	100-1017
Unites States of America	U.S. Army Corp of Engineers	Stony Point Dike	Conservation	Yes	Good	Poor			Protected	84.2	26-1

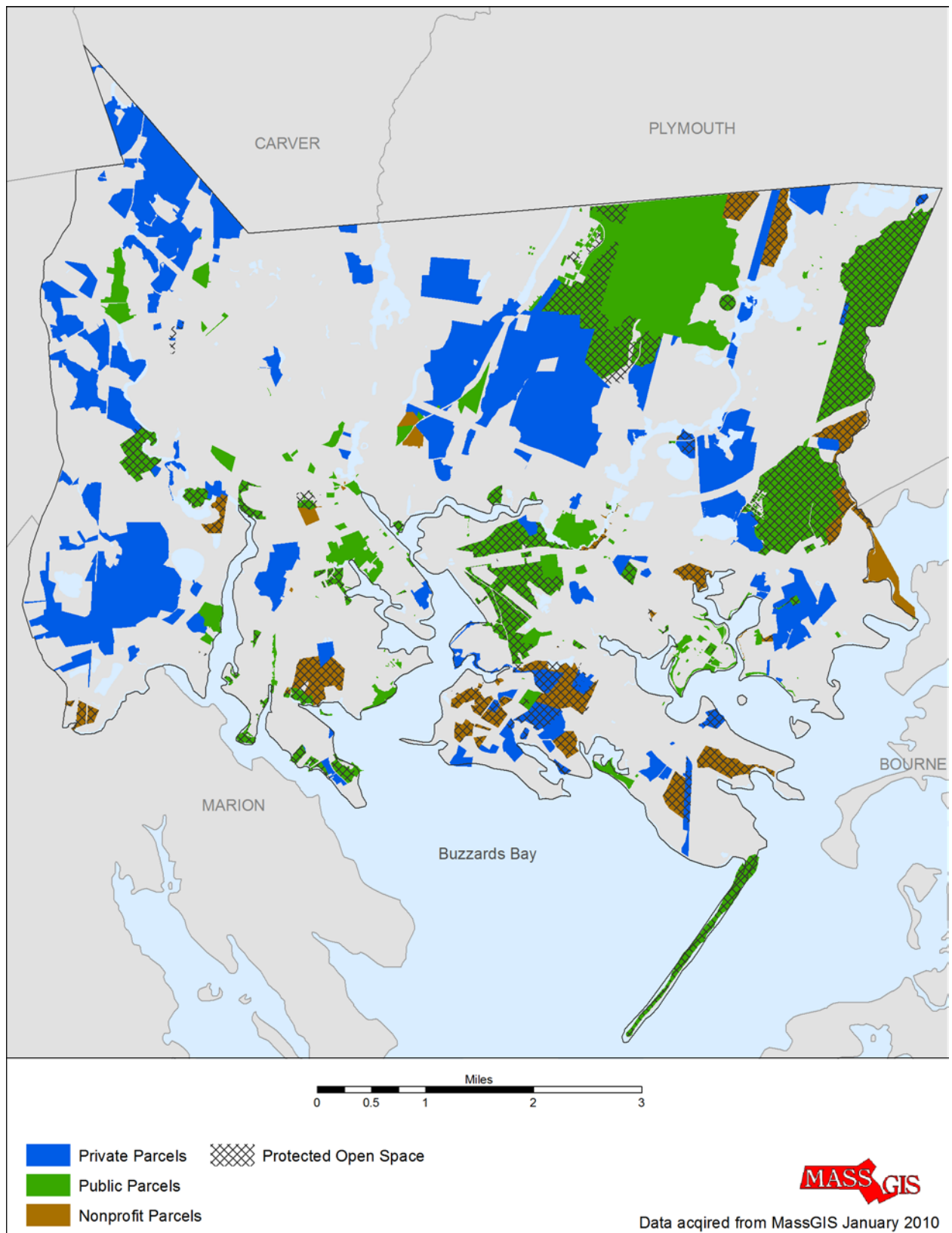
TABLE 5: PUBLIC PARCELS INVENTORY

TABLE 6: NONPROFIT PARCELS INVENTORY

Nonprofit Parcels Owner	Manager	Site Name	Current Use	Zone	Grant Type	Level of Protection	Acres	Map-Lot
Massachusetts Audubon Society	Massachusetts Audubon Society	Cromeset Neck	Conservation	R30		Protected	53.0	54-1007
Massachusetts Audubon Society	Massachusetts Audubon Society	Gleason Parcel	Conservation	R30		Protected	3.4	16-1006
Massachusetts Audubon Society	Massachusetts Audubon Society	Great Neck	Conservation	R60		Protected	36.0	27-1007
Massachusetts Audubon Society	Massachusetts Audubon Society	Heron Point	Conservation	R60		Protected	56.0	23-1000
Narragansett Council BSA	Boy Scouts of America		Recreation			None	13.3	61-1206A
Narragansett Council BSA	Division of State Parks & Recreation (CR)	Camp Cachalot	Recreation	R130		Protected	36.7	117-1004
New England Forestry Foundation Inc.	New England Forestry Foundation Inc.		Conservation	R60		Protected	39.8	36-8
Trustees of Reservations	Trustees of Reservations	Theodore Lyman Reserve	Conservation	R130		Protected	2.4	128-1007
Trustees of Reservations	Trustees of Reservations	Theodore Lyman Reserve	Conservation	R130		Protected	0.8	128-1008
Trustees of Reservations	Trustees of Reservations	Theodore Lyman Reserve	Conservation	R130		Protected	3.1	128-1009
Trustees of Reservations	Trustees of Reservations	Theodore Lyman Reserve	Conservation	R130		Protected	45.8	128-1013
Trustees of Reservations	Trustees of Reservations	Theodore Lyman Reserve	Conservation	R130		Protected	1.8	131-1006
Trustees of Reservations	Trustees of Reservations	Theodore Lyman Reserve	Conservation	R130		Protected	19.2	131-1014A
Trustees of Reservations	Trustees of Reservations	Theodore Lyman Reserve	Conservation	R130		Protected	16.2	131-1019B
Trustees of Reservations	Trustees of Reservations	Theodore Lyman Reserve	Conservation	R30		Protected	4.3	7-1003
Trustees of Reservations	Trustees of Reservations	Theodore Lyman Reserve	Conservation	R31		Protected	4.2	7-1003P
Wareham Historical Society	Wareham Historical Society	Fearing Tavern	Historic	SC		None	0.2	132-1001
Wareham Historical Society	Wareham Historical Society	Old Methodist Meeting House	Historic	MR30		None	0.3	61-1013
Wareham Historical Society	Wareham Historical Society	Old Methodist Meeting House	Historic	MR30		None	0.4	61-1014A
Wareham Land Trust	Wareham Land Trust	Agawam River I	Conservation	SC	Conservation Partnership Grant	Protected	4.0	43-1066
Wareham Land Trust	Wareham Land Trust	Agawam River II	Conservation	SC		Protected	0.3	129-1078
Wareham Land Trust	Wareham Land Trust	Agawam River II	Conservation	SC		Protected	0.4	129-1149
Wareham Land Trust	Wareham Land Trust	Agawam River II	Conservation	SC		Protected	1.1	43-1025B
Wareham Land Trust	Wareham Land Trust	Agawam River II	Conservation	SC		Protected	0.1	43-1025C
Wareham Land Trust	Wareham Land Trust	Agawam River II	Conservation	SC		Protected	2.5	43-1068
Wareham Land Trust	Wareham Land Trust	Agawam River Pine Barrens	Conservation	R130	NAWCA Grant	Protected	68.5	117-1012
Wareham Land Trust	Wareham Land Trust	Eldridge Brown Parcel	Conservation	R30		Protected	5.8	55-1010
Wareham Land Trust	Wareham Land Trust	Great Neck Road Parcels	Conservation	R60		Protected	0.2	37-1017
Wareham Land Trust	Wareham Land Trust	Hammond Baypoint	Conservation	MR30		Protected	3.1	2-1025A1

Nonprofit Parcels Owner	Manager	Site Name	Current Use	Zone	Grant Type	Level of Protection	Acres	Map-Lot
Wareham Land Trust	Wareham Conservation Commission	Marks Cove Parcel	Conservation	R30	Conservation Partnership Grant	Protected	8.1	55-1009
Wareham Land Trust	Wareham Land Trust	North Water Street Beach	Conservation	OVR		Protected	1.3	2-1015
Wareham Land Trust	Wareham Land Trust	Tweedy & Barnes	Conservation	R60		Protected	24.8	67-1010
Wareham Land Trust	Wareham Land Trust	Whitlock's Landing	Conservation	R130	Conservation Partnership Grant	Protected	0.5	129-1004
Wareham Little League Inc.	Wareham Little League Inc.	Wareham Little League Inc.	Recreation	R60		None	5.7	110-1037
Wareham Little League Inc.	Wareham Little League Inc.	Wareham Little League Inc.	Recreation	R61		None	1.2	110-1038
Wareham Little League Inc.	Wareham Little League Inc.	Wareham Little League Inc.	Recreation	R62		None	4.2	110-1041
Wildlands Trust of SE Massachusetts	Wareham Land Trust	Woods at Great Neck	Conservation	R60		Protected	17.1	37-1009B
Wildlands Trust of SE Massachusetts	Wildlands Trust of SE Massachusetts	Caron Marshland	Conservation	R30		Protected	1.3	78-3-1003
Wildlands Trust of SE Massachusetts	Wildlands Trust of SE Massachusetts	Conant Hill	Conservation	MR30		Protected	23.4	80-1000
Wildlands Trust of SE Massachusetts	Wildlands Trust of SE Massachusetts	Evans Property	Conservation	R60		Protected	4.0	36-15
Wildlands Trust of SE Massachusetts	Wildlands Trust of SE Massachusetts	Gleason Family Wildlife Preserve	Conservation	R30		Protected	68.0	54-1002
Wildlands Trust of SE Massachusetts	Wildlands Trust of SE Massachusetts	I.C. Hammond Preserve	Conservation	MR30		Protected	30.1	12-1010
Wildlands Trust of SE Massachusetts	Wildlands Trust of SE Massachusetts	Jack's Marsh	Conservation	R60		Protected	25.4	37-C
Wildlands Trust of SE Massachusetts	Wildlands Trust of SE Massachusetts	Laurence Channing Memorial Reservation	Conservation	R60		Protected	17.7	34-M1
Wildlands Trust of SE Massachusetts	Wildlands Trust of SE Massachusetts	Mink Cove-Elkins Reservation	Conservation	R60		Protected	25.6	31-P1C
Wildlands Trust of SE Massachusetts	Wildlands Trust of SE Massachusetts	Minot-Weld Conservancy	Conservation	R60		Protected P	53.0	37-1000
Wildlands Trust of SE Massachusetts	Wildlands Trust of SE Massachusetts	Standish Shores Preserve	Conservation	R60		Protected	20.6	35-N
Wildlands Trust of SE Massachusetts	Wildlands Trust of SE Massachusetts	Towhee Road Addition	Conservation	R60		Protected	4.7	33-2-1
Wildlands Trust of SE Massachusetts	Wildlands Trust of SE Massachusetts		Conservation	MR30		Protected	11.5	12-A1010
Wildlands Trust of SE Massachusetts	Wildlands Trust of SE Massachusetts		Conservation	R60		Protected	10.9	36-E
Wildlands Trust of SE Massachusetts	Wildlands Trust of SE Massachusetts		Conservation	R30		Protected	0.6	56-1013
Young Men's Christian Association	Young Men's Christian Association	YMCA	Recreation	MR30		None	14.9	110-Y3

TABLE 6: NONPROFIT PARCELS INVENTORY



MAP 24—INVENTORY OF OPEN SPACE

Section 6 Community Vision

Preserving land as open space and providing recreational facilities for Town residents is an integral component of maintaining Town character, protecting valuable natural resources, and improving the overall quality of life for Wareham residents. The need to protect and improve access to open space, upgrade recreational facilities, safeguard watershed areas, and protect river corridors, ponds, and coastlines is widely recognized by Wareham's residents.

A. Description of Process

At the Town Meeting held on October 26 – 27 2009, attendees were asked to fill out an Open Space and Recreation Plan Questionnaire. An article in the local newspaper expounded on the importance of this survey and the impact the results would have on the priorities set in the 2010 update of Wareham's Open Space and Recreation Plan. In addition to its availability at Town Meeting, this questionnaire was available at Wareham's Town Hall, Library, and on the Town website. The questionnaire allowed residents to state which open space and recreation goals are important to them, how they currently use open space and recreation areas in Wareham, and voice their concerns and suggestions.

The results of the questionnaire show that Wareham residents support the acquisition of open space and many commented on the intrinsic value that open space has for preserving the quality of life in Wareham.

Nine years after the overwhelming approval of the Community Preservation Act, Wareham's residents continue their strong support and greatly appreciate the funds approved by the Community Preservation Committee for the acquisition of open space. In the past six years, the CPC has contributed significantly to increasing Wareham's protected open space. The community values the CPC's continued support and recommendations.

An Open Space Summit, sponsored by the Wareham Land Trust, was held at Sacred Hearts Retreat Center on Great Neck Road in Wareham on May 16, 2009. The Summit provided a forum for organizations and concerned citizens to review and discuss recent activities concerning open space in the Town of Wareham.

All Open Space Committee meetings are open to the public and are held in an accessible location. Every effort was made to involve as many citizens as possible in updating this plan. Since this was a Town effort, as large a representation as possible was involved with this update of Wareham's Open Space and Recreation Plan. The Wareham Open Space and Recreation Plan was developed using a process of analysis, committee consensus, public survey, and input from the community to establish priority areas for protection and recreational development.

B. Statement of Open Space and Recreation Goals

Year-round residents, summer residents, and those who only visit for a few days value Wareham's rural character, scenic beauty, beaches, rivers, and ponds. Water is an important aspect of life in this area—water for drinking and water for recreation. The goals outlined in this Plan promote the desire to protect open space lands that have significant value for preserving water quality, to protect the abundant natural water resources of the area, and to enhance the public's awareness of conservation and recreation areas in Wareham.

The Wareham Open Space and Recreation Plan advocates:

- ❖ Preserving open space:
 - To protect watersheds, wetlands, salt marshes, rivers, bays, and ponds
 - To improve recreational access to natural water resources
 - To provide habitat for plants, wildlife, fish, and marine life
- ❖ Protecting and acquiring land of high natural, environmental, scenic, and recreational value
- ❖ Improving recreational facilities
- ❖ Enhancing the public's opportunities to enjoy open space and recreational facilities
- ❖ Providing materials to inform the public about the environment and green living

Section 7 Analysis of Needs

A. Summary of Resource Protection Needs

In a recent survey, Wareham residents indicated their highest priority is to protect the water supply and other natural water resources such as wetlands, rivers, bays, and ponds. Maintaining open space for wildlife habitat also ranked very high.

The primary source of Wareham's potable water is the Plymouth-Carver Sole Source Aquifer. The Aquifer is 199 square miles and includes eight towns in southeastern Massachusetts. The groundwater table elevations range from approximately sea level to approximately 125 feet at interior groundwater highs, with the maximum saturated thickness of more than 160 feet at some locations. The coarse nature of the deposits results in very low surface runoff and high infiltration rates making the Aquifer quite vulnerable to contamination. Because of its highly permeable and transmissive character, and large size granular materials, groundwater contaminants can quickly travel long distances, and affect a large area. The recharge area is characterized by moderate relief. Activities occurring in the upland areas can have direct impact on groundwater quality in the rest of the Aquifer. The present quality of the water from the Aquifer is characterized as good to excellent.

The 2007 Plymouth-Carver Sole Source Aquifer Action Plan was developed by the Executive Office of Energy and Environmental Affairs with assistance from the Plymouth Carver Aquifer Advisory Committee that includes representatives from Wareham and six other towns in the Aquifer region. It is an excellent step in providing guiding principles to help advise the citizens living and working in the Aquifer region on how to protect the Plymouth-Carver Sole Source Aquifer.

Over 80 percent of Wareham is located in the Plymouth-Carver Aquifer. Both the Wareham Fire District and the Onset Fire District use the Aquifer as their main source of water. The well fields for both districts are on protected land. Wareham must monitor its zoning to protect groundwater resources. Diligence must be exercised to ensure the water quality of the Aquifer. Development creates impervious surface (e.g. roads) that increase runoff and prevents groundwater recharge. The Plymouth-Carver Aquifer exhibits regional groundwater flow patterns. Awareness and protection of this vulnerable resource is the responsibility of all the towns that share it, including Wareham.

Wetlands and cranberry bog systems provide valuable recharge areas for the Aquifer. They provide wildlife habitat, protect our water supply, and help Wareham keep its rural character. Declining cranberry prices has led to an increase in development pressure on agriculture land as cranberry growers seek to find more profitable uses for their land. If cranberry bog owners ever decide to sell their lands for development, the character of the community would change significantly.

The Weweantic River, Agawam River, Red Brook, and the Wankinco River are all anadromous fish runs. These rivers and their riparian areas are critical for wildlife and invaluable for recreation activities—swimming, fishing, boating. The protection of river systems is a high priority for open space and recreation planning in Wareham. Uncontrolled development along river corridors could adversely affect an already declining anadromous fish population and further restrict public access to Wareham's river systems.

Wareham's extensive coastline is vulnerable to storm damage and erosion. Protection of coastal areas, either through purchase or through Conservation Restrictions, would limit development in these fragile environments. We must safeguard the vitality of our coastal areas and salt marshes for the benefit of our shorebirds, fish, shellfish, plants, and other wildlife but also for the aesthetic value and the intrinsic value they provide for Wareham's year-round residents, seasonal residents, and visitors.

B. Summary of Community's Needs

The Statewide Comprehensive Outdoor Recreation Plan (SCORP), *Massachusetts Outdoor 2006*, is a five-year plan developed by the Commonwealth's Executive Office of Energy and Environmental Affairs. The Plan is necessary to be eligible for federal Land and Water Conservation Fund (LWCF) grants and is an invaluable tool to use in planning for future needs and uses of outdoor resources for public recreation and relaxation.

The SCORP report for the Southeastern Region, which includes Wareham, identifies water-based activities as the most popular form of recreation. The plan indicates neighborhood parks, playgrounds, and tot lots are widely used by residents, second only to utilization of coastal resources. One in four residents in this region visited wildlife conservation areas, trails, and greenways. Biking is clearly a desired activity but the low participation may reflect the general lack of facilities in reasonable proximity to home. Residents in this region strongly favor maintaining and restoring existing facilities.

Wareham's residents agree with these findings. With its extensive shoreline, it is not surprising that the most popular recreational options are beaches. Walking trails, protected conservation areas, and bike paths also rank very high. A recent survey indicates that many playgrounds, athletic fields and tennis courts are in need of repair and it is desirable to increase the recreational facilities available to teenagers and children ages 1 – 12 years old. The Action Plan recommends repairs to playgrounds and improvements of non-motorized boat launch areas.

Wareham's Bike Path Committee conducted a survey where 95 percent of the respondents favored the creation of a Community Pathway that will provide a safe, clean, aesthetic, enjoyable year-round place to enjoy non-motorized activities such as walking, jogging, or riding a bicycle. This response was reflected in a survey conducted by the Open Space Committee where more than half of the respondents listed a bike pathway and almost 79 percent listed walking trails as one of their most important recreation options.

The Southeastern Regional Planning Economic Development District (SRPEDD) assisted the Bike Path Committee in developing a route, including alternative routes, for the proposed pathway. A feasibility study is underway to select a route through Town. The proposed Wareham Community Pathway will be approximately twelve miles long and will connect the Marion Bike Path to the Buzzards Bay town line. The proposed route for the Wareham Community Pathway is included in the Action Plan Map.

Map 25— Action Plan located at the end of Section 9.

The Open Space Committee's survey indicates that Wareham residents would like more parking at Town beaches and an improvement in the facilities at playgrounds and recreational facilities. Many residents are unaware of the vast array of playgrounds, recreational facilities, and conservation areas available in the Town of Wareham. Improved signage would help identify playgrounds, ball fields, and conservation areas. A brochure based on the maps created for this Open Space and Recreation Plan would be a worthwhile project. The brochure will show the location of playgrounds, recreational facilities, fishing access points, and boat launch areas. To reach the widest audience possible, this brochure and other information sheets should be posted on the Town's website.

Recreational needs have long been considered a priority within the community. Recreation plays an important role in the well-being of Wareham residents. Recreational activities develop confidence, leadership skill, and cooperation among participants. They also help reduce stress and promote good health. Wareham must maintain its recreational facilities to ensure they are safe, clean, and available to all.

Survey results indicate residents' desire to protect the community's open space. The Town should pursue every opportunity to acquire open space, whether by gift, charitable contribution, or fee-simple

purchase and protect it in perpetuity. It is suspected that many residents are not aware of the tenuous nature of existing open space. Public education in this area is important. Wareham residents have had the experience of seeing land that many thought was Town owned protected open space developed into private housing. This happened in the early 1990's when the Forest View Nursing Home was built on land adjacent to the Minot Forest. Prior to development, the property was tree covered and many residents assumed it was part of the Town's protected land. This scenario should remind residents that there is no guarantee that unprotected open space will remain in a natural state.

Planned improvements to Mary Bess Park and Pier will replace the deteriorated bulkhead, provide direct access to the Wareham River, and increase visitor parking. The project, scheduled to be completed by spring 2011, will protect the sea wall from coastal storm damage and provide direct access to the water from Wareham Village and the westerly fishing pier. This park borders three Environmental Justice areas and the upgrades will enhance the handicap accessible fishing pier and increase the quality of life for the Village's elderly, many of whom come here to enjoy the view and watch the activity on the river.

Updates to playgrounds and picnic facilities include handicap accessible equipment. The Multi-Service Building, a fully accessible facility easily reached via public transportation, offers relevant programs and services for handicap individuals and the elderly. Activities are free or available at a nominal cost, ensuring that they are affordable for all residents. Wareham strives to continue to offer quality programs and services even though the current budget does not allow for a recreation department.

C. Management Needs, Potential Change of Use

Tremont Dam is an earthen water control structure on the Weweantic River. The dam is in disrepair and a study should be undertaken to secure funding to either remove or repair the dam. Tremont Pond is above the dam. Town owned property exists above and below the dam including most of the Tremont Pond waterfront property. There are remnants of a bog iron mill and more recently a recreational facility for children's programs known as Camp Running River. The property is no longer used for recreational programs but it does have frontage along the Weweantic River that allows canoe and kayak access. Tremont Pond and its surrounding woodlands and marshes are valuable as wildlife habitat. Improvements made to the canoe launch area on the Weweantic River would allow Wareham residents to explore and enjoy this beautiful site.

Several responses to the 2010 Open Space and Recreation Plan Questionnaire indicated the need for a dog park in Wareham. A feasibility study is required to determine the practicality of this type of facility and, if feasible, to determine a suitable location for the creation of a dog park.

Section 8 Goals and Objectives

The Open Space Committee employed a process of analysis, committee consensus, public survey, input from the community, and an ADA accessibility self-evaluation to establish priorities for the Goals and Objectives articulated in the Open Space and Recreation Plan.

GOAL: Protect land of high natural, environmental, scenic, and recreational value

Objectives:

- Protect land with high environmental value including but not limited to significant wetlands, waterways, estuarine environments, watersheds, land important for wildlife habitat, land that supports rare plants and animals, and land and water that are important fish habitats
- Protect land for passive outdoor recreation and land that provides scenic vistas
- Acquire strategically located parcels to prevent development in inappropriate areas
- Support innovative ways to conserve open space
- Create an open space trust fund

GOAL: Expand and improve recreational facilities

Objectives:

- Ensure that Wareham's recreational facilities are safe, clean, and available to all
- Upgrade and maintain existing recreational facilities including parks, playing fields, and beaches
- In response to residents' request, create a park dedicated to safe canine activities

GOAL: Increase and enhance the public's opportunity to enjoy open space and recreational facilities

Objectives:

- Create a multi-use community pathway that will provide a safe, clean, aesthetic, enjoyable year-round place to enjoy such activities as walking, jogging, or riding a bicycle
- Improve canoe and kayak river access
- Increase the availability of conservation areas

GOAL: Promote public education of environmental issues, sustainability, and green living

Objectives:

- Increase environmental awareness within the community
- Provide opportunities for public education on local wildlife, plants, and natural area

Section 9 Seven-Year Action Plan

The successful implementation of Wareham's Open Space and Recreation Plan is the responsibility of all of Wareham's residents. The Town of Wareham has a responsibility to its citizens to ensure that all town-owned recreational facilities are clean, safe, and accessible to all. In these difficult economic times, Wareham's residents can help by not littering parks, playgrounds, and beaches, report all broken or unsafe equipment to the Town Administrator's office and ask that it be repaired, and always be respectful of recreational facilities so that all may enjoy the wonderful parks, playgrounds, and beautiful areas in Wareham.

Protecting open space through land acquisition, conservation restriction, or other means is a collaborative effort of Wareham's Town Administrator, Board of Selectmen, Town Planner, the Conservation Commission, the Community Preservation Committee, the Open Space Committee, the Commonwealth of Massachusetts, local, regional, and state conservation organizations, and Wareham's residents. Increasing Wareham's permanently protected open space is guided by many factors including the availability of land, funding, cooperation, and the desire of the people who live here to ensure the continued existence of the community they love. Wareham is fortunate to have an active land trust that is ever diligent in pursuing land that can be permanently protected. The Open Space Committee extends heartfelt thanks to the dedicated volunteers of the Wareham Land Trust.

The Action Plan Map, located at the end of Section 9, depicts priority areas for permanently protected open space, recreation facilities and river access areas in need of repairs, and the proposed Wareham Community Pathway route. The criteria used to identify priority areas for permanently protected open space include: buffers to coastal waters, rivers, and streams, rare species habitat, wildlife habitat identified by NHESP as critical to the Commonwealth, priority areas for aquifer recharge, proximity to existing open space, and areas that will preserve undisturbed resources.

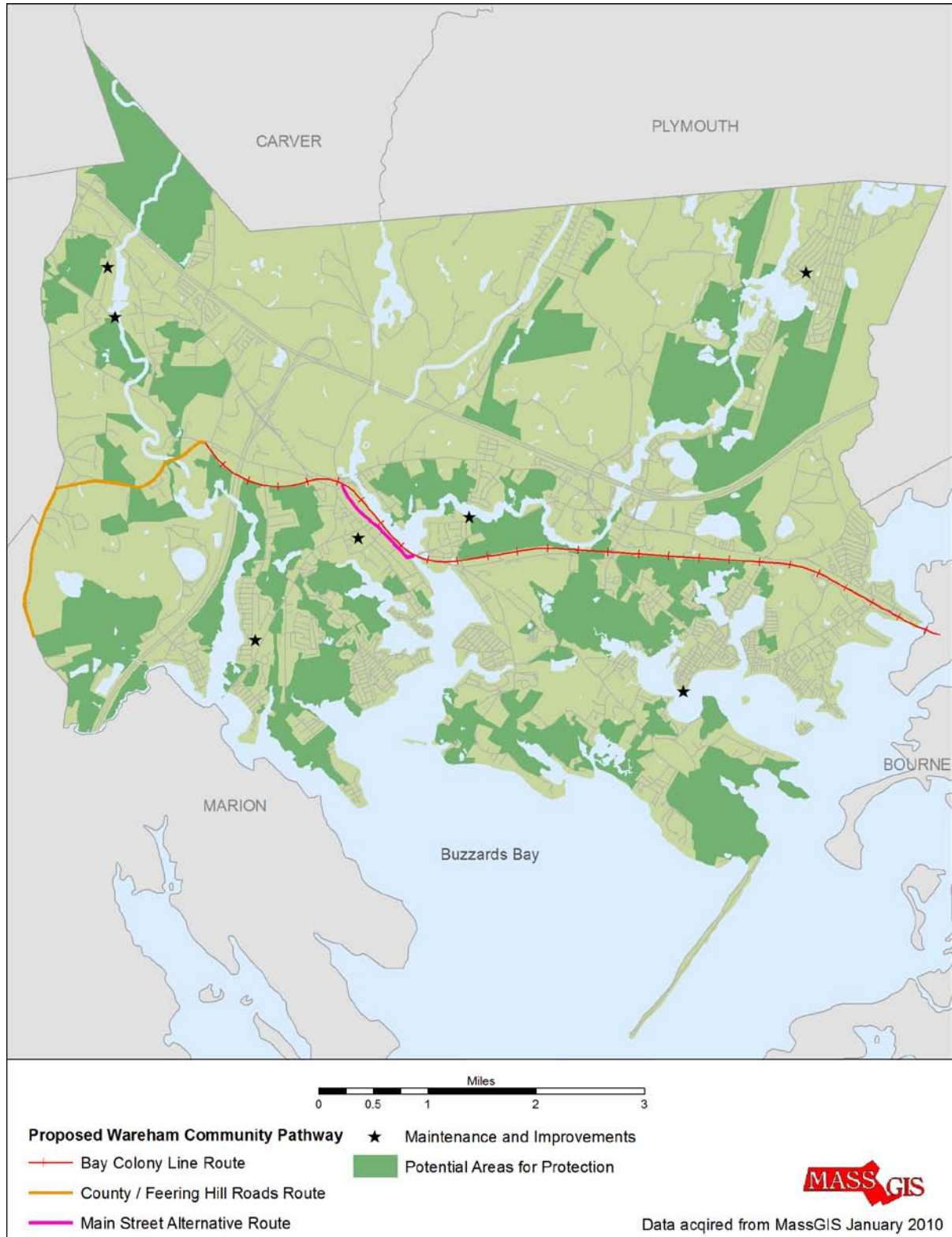
GOAL Protect land of high natural, environmental, scenic, and recreational value	
OBJECTIVES	ACTIONS
<p>Protect land with high environmental value including but not limited to aquifer recharge areas, significant wetlands, waterways, estuarine environments, watersheds, land important for wildlife habitat, land that supports rare plants and animals, and land and water that are important fish habitats</p> <p>Timeframe: Ongoing effort</p>	<ul style="list-style-type: none"> ▪ Pursue options to acquire over 500 acres of land in East Wareham that may become available; this land is adjacent to other conservation areas and has significant value for wildlife habitat, groundwater recharge, wetland protection, and aesthetic views ▪ Expand conservation land at Horseshoe Pond ▪ Create a linked system of green belts along rivers and streams and between existing open space areas whenever possible ▪ Foster efforts to protect open space as opportunities arise
<p>Protect land for passive outdoor recreation and land that provides scenic vistas</p> <p>Timeframe: Ongoing effort</p>	<ul style="list-style-type: none"> ▪ Target preservation of parcels adjacent to existing permanently protected open space to create large contiguous tracts and wildlife corridors ▪ Seek conservation restrictions on cranberry uplands to allow agricultural activities but preserve the land from development ▪ Protect visual access to the waterfront

GOAL Protect land of high natural, environmental, scenic, and recreational value	
OBJECTIVES	ACTIONS
Acquire strategically located parcels to prevent development in inappropriate areas Timeframe: Ongoing effort	<ul style="list-style-type: none"> Review all parcels in tax title to see if they are appropriate for recreation or conservation areas Investigate the possibility of converting the Town owned land adjacent to Tremont Dam for recreation or permanently protected open space
Support innovative ways to conserve open space Timeframe: Ongoing effort	<ul style="list-style-type: none"> Continue to support the Community Preservation Act Encourage the Community Preservation Committee to provide public outreach informing residents how CPA funds are used to enhance the quality of life in Wareham Continue collaborations with local and regional land preservation organizations and state agencies to protect, manage, and promote open space
Create an open space trust fund Timeframe: Years 1 - 2	<ul style="list-style-type: none"> Explore the feasibility and legality of a dedicated open space fund that supports opportunities to acquire critical lands for conservation in a timely manner Submit a warrant article at Town Meeting to implement the trust fund
GOAL Expand and improve recreational facilities	
OBJECTIVES	ACTIONS
Ensure that Wareham's recreational facilities are safe, clean, and available to all Timeframe: Years 3 - 5	<ul style="list-style-type: none"> Improve accessibility to Shangri-La Playground by creating a gradual slope and / or tiered stairs at entrance; power wash and paint equipment; install signs to help residents locate the playground Repair or remove an unsafe picnic pavilion at the Weweantic Playground Repair erosion at the entrance to the Sylvester Gardens Playground Add accessible benches and wheelchair accessible picnic table at Shell Point
Upgrade and maintain existing recreational facilities including parks, playing fields, and beaches Timeframe: Ongoing effort	<ul style="list-style-type: none"> Maintain an inspection schedule to ensure that equipment and facilities at recreational areas are properly maintained to ensure maximum safety and enjoyment of participants Apply for grants to assist with the cost of this maintenance

GOAL Expand and improve recreational facilities	
OBJECTIVES	ACTIONS
<p>In response to residents' request, create a park dedicated to safe canine activities</p> <p>Timeframe: Years 2 - 4</p>	<ul style="list-style-type: none"> Investigate the feasibility of converting an underutilized park or ball field to a dog park and / or develop a plan to create the park at a new location Pursue grants and other funding to support this endeavor
GOAL Increase and enhance opportunities to enjoy open space and recreational facilities	
OBJECTIVES	ACTIONS
<p>Create a multi-use community pathway that will provide a safe, clean, aesthetic, year-round place to enjoy non-motorized activities such as walking, jogging, or riding a bicycle</p> <p>Timeframe: Year 2 and beyond</p>	<ul style="list-style-type: none"> The Bike Path Committee should continue to oversee the feasibility study and the engineering plan initiated to develop a route for the Wareham Community Pathway Acquire parcels and right-of-ways necessary for the completion of the pathway Design and construct the pathway Pursue grants and other funding to achieve this endeavor
<p>Improve canoe and kayak river access areas</p> <p>Timeframe: Repairs made as soon as is practical. Further development of water access areas is an ongoing effort.</p>	<ul style="list-style-type: none"> Repair the access path to the Weweantic River at the Carver Road Tennis Courts Improve open water access to the Agawam River for canoe and kayak launching at the Oakdale Playground Improve the Weweantic River access at the Tremont Dam area Acquire additional water access areas if opportunities arise
<p>Increase awareness of conservation areas</p> <p>The Open Space Committee will organize these efforts with assistance from the Conservation Commission, the Minot Forest Committee, and the Bike Path Committee.</p> <p>Timeframe: Year 1 and beyond</p>	<ul style="list-style-type: none"> Improve signs at recreational and conservation areas to increase awareness and promote use Develop maps and brochures emphasizing recreational facilities and open space attractions to improve public awareness and accentuate the importance of Wareham's open space resources Develop Google map points to help people find recreation and conservation areas Post maps and information about recreation and conservation areas on the Town's website Complete Minot Forest to Little Harbor Beach trail

GOAL Promote public education of environmental issues, sustainability, and green living	
OBJECTIVES	ACTIONS
<p>Increase environmental awareness within the community</p> <p>The Open Space Committee will solicit volunteers to help with these endeavors</p> <p>Timeframe: Ongoing effort</p>	<ul style="list-style-type: none"> ▪ Engage volunteers to locate vernal pools for certification by NHESP ▪ Work with the Wareham School District and youth organizations to involve students in conservation projects to teach the value of open space ▪ Provide information about recycling, nitrogen pollution, energy conservation, wise use of natural resources, sound conservation practices, and other green topics ▪ Consider an 'adopt a playground' campaign
<p>Provide opportunities for public education on conservation, local wildlife, plants, and natural areas</p> <p>The Open Space Committee will solicit volunteers to help with these endeavors</p> <p>Timeframe: Ongoing effort</p>	<ul style="list-style-type: none"> ▪ Solicit subject matter experts to speak at the library, a school, or a conservation area ▪ Develop community programs such as open space tours and natural history walks ▪ Produce educational materials that encourage environmentally sound practices for a sustainable world ▪ Promote an Open Space Month as an annual event

Map 25—Action Plan is located at the end of Section 9.

**MAP 25—ACTION PLAN**

Section 10 Public Comments

Comments received during the process of updating the Open Space and Recreation Plan

- Do not use beaches much in the summer.
- Do not know the names of most of the fishing and boat launch areas we go to and several that we go to aren't listed.
- I don't know of any of these [Natural Areas in Wareham] and would like a little packet describing each one and its exact location, like a map. Maybe I should take the initiative and see if such a packet is available at Town Hall. I always say to my boyfriend / fiancée (who is a native) "Wareham sucks" but seeing the above list maybe I need to rethink this.
- Maybe my fault, but I don't recognize (by name anyway) any of the areas listed [Natural Areas in Wareham] will check some out though.
- I would love to see all the natural areas listed above but was unaware of most of them. Sign (road and directional arrows) and / or a link to info on the town page would be useful.
- Wareham's waterfront is underutilized! Facilities for boaters are lacking. Build a town owned marina at Tempest Knob – Widows Cove – Onset Pier. Boating will bring business to Wareham.
- I will start to use available parks, beaches in the near future.
- I feel that we need to do all that is possible to protect open space in Wareham for the benefit of future generations. When the economy improves, developers will gobble it up and when it's gone there isn't any more.
- Lopes playground and Oakdale playground are not fit for baseball. Should focus on facilities for youngsters, teens, children such as ballfields, basketball courts, swimming pools.
- Even though I don't actively use all of the properties listed in this form, I take great pride and comfort knowing that they are available to the citizens of Wareham and its visitors. Many of the properties could use improvements and maintenance. I know that this is expensive but a real good program to recruit and organize supporters and volunteers can accomplish a lot. There are grants and other programs available. What we need is someone to search them out and administer them.
- Recreational areas and beaches used are strongly related to where I live, I go to those places I can walk to. I had no idea about many conservation areas. Even if I never to there better signage would let us know that out tax money is being used for land protection. Maybe include info about why that land was protected (water supply, habitat, ...).
- Thank you to the Open Space Committee for renewed momentum in completing the Open Space Plan for the Town. So important! Self Help Grants and other State funding are critical to saving out diverse habitats and protection the aquifer and wetlands; without a certified plan the town misses out on these funding sources which are so valuable for preserving our natural and cultural resources.
- Questionnaire favors land for recreation and public use. Should put more options for conservation choices.
- We have a large amount of playgrounds in Wareham however most are unsafe or in disrepair. Onset Ave Playground is very unsafe. There is constant broken glass and graffiti. That street also has a serious organized drug trade problem. I use Carver's playgrounds.

Letters of Support for the Town of Wareham Open Space and Recreation Plan 2010-2017



TOWN OF WAREHAM
Office of the Board of Selectmen
54 Marion Road
Wareham, MA 02571
(508) 291-3100

M. Jane Donahue, Chairman
Walter B. Cruz, Sr., Clerk
Brenda Eckstrom
Stephen M. Holmes
Cara A. Winslow

August 23, 2010

Mrs. Sandy Slavin, Chairman
Open Space Committee
36 Oak Street
Wareham, MA 02571

Re: 2010-2017 Open Space & Recreation Plan

Dear Mrs. Slavin:

The Wareham Board of Selectmen of the Town of Wareham voted to support the Open Space and Recreation Plan for 2010-2017. We thank the Open Space Committee for their work on this project.

Sincerely,


M. Jane Donahue, Chairman

Cc: Board Members
Town Administrator



**Town of Wareham Planning Department &
Zoning Board of Appeals**

54 Marion Road
Wareham, MA 02571-1428

Phone: (508) 291-3100 x6501
Fax: (508) 291-3116
Email: jcharbonneau@wareham.ma.us

John M. Charbonneau, Town Planner
Brenda Sampson, Dept. Assistant
Kelly Barrasso, Dept. Assistant

September 15, 2010

Sandy Slavin, Chair
Wareham Open Space Committee
54 Marion Rd.
Wareham, MA 02571

Dear Sandy:

I am writing on behalf of the Planning Board to express unanimous support for the *Open Space and Recreation Plan* currently under review by the State.

The Plan's overall purposes of encouraging land acquisition and conservation restrictions to increase protected land for recreation, wildlife habitat, and safeguarding watersheds as well as identifying existing needs and concerns of residents in relation to preserving land and enhancing recreation areas are consistent with the Master Plan's Land Use goal in Chapter III.H.5 to permanently preserve tracts of undeveloped land to maintain the character of the community, provide opportunities for residents to enjoy nature and maintain habitat for wildlife.

In addition, an ongoing goal of the Master Plan is to develop a strategy of specific goals and techniques to implement the action plan expressed in the current *Open Space and Recreation Plan* with an annual goal of preserving a minimum of one (1) parcel.

The Wareham Planning Board is proud to support the efforts of your committee and the goals and objectives expressed in the *Open Space and Recreation Plan*. If you require further information, please contact me at (508) 291-3100 x6501 or jcharbonneau@wareham.ma.us.

Sincerely,

John M. Charbonneau
Town Planner

Cc: Planning Board
David Pichette, Conservation Administrator
Mark Andrews, Town Administrator



Southeastern Regional Planning & Economic Development District

◀ 88 Broadway ▼ Phone (508)824-1367 ▼ FAX (508)823-1803 ▼ ssmith@srpedd.org ▼ Taunton, MA 02780 ▶

August 10, 2010

Melissa Cryan
Executive Office of Energy and Environmental Affairs
Division of Conservation Services
100 Cambridge Street
Boston, MA 02114

RE: Wareham Open Space and Recreation Plan

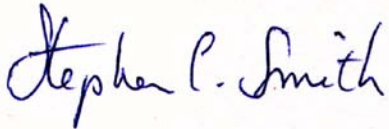
Dear Ms. Cryan:

Southeastern Regional Planning and Economic Development District's (SRPEDD) planning staff has recently completed a review of Wareham's update of their Open Space and Recreation Plan.

The plan is consistent with SRPEDD's regional goals and objectives and in general compliance with DCS's Open Space and Recreation Plan Requirements. The plan is the result of the commendable effort and research put into it by the local Open Space Committee. The Action Plan accurately presents community needs and issues of concern as discussed at public meetings and derived through public survey. The town continues to work with partners such as local land trusts, conservation groups, the Buzzards Bay Project, and the Coalition for Buzzards Bay to promote: responsible long-range planning for growth and conservation; water resource protection, and; protection of the cultural and natural resources of Buzzards Bay.

SRPEDD supports the certification of the Wareham Open Space and Recreation Plan, as updated. If you have any questions regarding our comments, please do not hesitate to contact Bill Napolitano, our Environmental Program Director.

Respectfully,



Stephen C. Smith
Executive Director

Town of Wareham
Conservation Commission
Memorial Town Hall
54 Marion Road
Wareham, Massachusetts, 02571

September 6, 2010

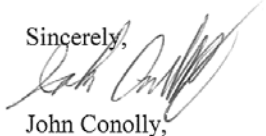
Wareham Open Space Committee
54 Marion Road
Wareham, MA 02571

To the Members of the Committee:

The Conservation Commission has received and reviewed a copy of the updated Wareham Open Space & Recreation Plan, 2010-2017. Upon review of this plan, it is the consensus of the Commission that this document has been well thought out, and that it directly addresses the Town's needs regarding the protection of its remaining open space. The action plan provides an excellent framework for achieving the goals and objectives outlined in the updated Open Space & Recreation Plan. The Commission strongly supports the ideas promoted in this plan and looks forward to assisting in its implementation.

The Commission appreciates the commitment of the Open Space Committee members and other volunteers that helped to complete this valuable guidance document.

Sincerely,



John Conolly,
Conservation Commission Chairman

cc: Conservation Commission



POST OFFICE BOX 718 • WAREHAM, MA 02571

4 June 2010

**Open Space Committee
Town of Wareham
Memorial Town Hall
54 Marion Road
Wareham, MA 02571**

Dear Committee:

On behalf of the Wareham Land Trust I want to congratulate the Open Space Committee on its recently posted Open Space Plan and offer the enthusiastic support of the Trust in your pursuit of ratification by the necessary governmental authorities.

We and others in the Town have suffered in our grant seeking efforts from the lack of an endorsed plan in the recent past. Completion and acceptance of this plan will greatly assist us in our campaigns to forever protect and make available for passive recreation sensitive underdeveloped woodlands, marshes and streams of the Town.

Perhaps more importantly, promulgation of this plan throughout the Town will help educate the leaders and citizens and assist in, "getting them all on the same page", in their deliberations over the many important conservation issues facing all of us.

Please let us know what we can do to aid you in your most welcome efforts.

Very truly yours,

**John H. Browning
President**



Buzzards Bay
National Estuary Program

June 10, 2010

Open Space Committee
Memorial Town Hall
54 Marion Road
Wareham, MA 02571

Dear Open Space Committee Members,

Thank you for the opportunity to comment on the 2010 Open Space and Recreation Plan for the Town of Wareham. It is obvious a great deal of effort went into this document and I commend the Open Space Committee for their hard work.

The Buzzards Bay National Estuary Program (NEP) is an advisory and planning unit of the Massachusetts Office of Coastal Zone Management. We receive funding from, and are part of, the US Environmental Protection Agency's National Estuary Program. Created in 1985, the Buzzards Bay NEP completed a Comprehensive Conservation and Management Plan (CCMP) for the Bay in 1991. This plan is a blueprint for the protection and restoration of water quality and living resources in Buzzards Bay and its watershed. In addition, in 2009, we created the Buzzards Bay Watershed Regional Open Space Plan (ROSP), which is a resource document for the protection of open space and natural resources in the watershed. I am pleased to say that Wareham's Open Space and Recreation Plan is consistent with the both the CCMP and the ROSP.

The Open Space Committee has done a wonderful job of accurately assessing Wareham's open space and recreation needs in the Seven-Year Action Plan. The Buzzards Bay NEP endorses this plan and recommends its approval by the Division of Conservation Services.

Sincerely,

Sarah B. Williams
Regional Planner



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APPENDIX A ADA Accessibility Self-Evaluation

The ADA (Americans with Disabilities Act) Accessibility Self-Evaluation is a required component of all Open Space and Recreation Plans. “Under Federal Law, no qualified handicapped person shall, on the basis of handicap, be excluded from participation in, be denied the benefits of, or otherwise be subject to discrimination under any program or activity that receives Federal financial assistance.” (MA DCS)

Designation of an ADA Coordinator

Mr. Theodore Misiaszek is the ADA Coordinator for the Town of Wareham.

Grievance Procedures



TOWN OF WAREHAM AMERICANS WITH DISABILITIES ACT TITLE II MUNICIPAL GRIEVANCE PROCEDURE

This Grievance Procedure is established to meet the requirements of the Americans with Disabilities Act. It may be used by anyone who wished to file a complaint alleging discrimination on the basis of disability in employment practices and policies or the provision of services, activities, programs, or benefits by the Town of Wareham.

The complaint should be in writing and contain information about the alleged discrimination such as name, address, phone number of complainant and location, date, and description of the problem. Alternative means of filing complaints, such as personal interviews or a tape recording of the complaint, will be made available for persons with disabilities upon request.

The complaint should be submitted by the grievant and / or his / her designee as soon as possible but no later than 60 calendar days after the alleged violation to: Theodore Misiaszek, ADA Coordinator, Town of Wareham, Memorial Town Hall, 54 Marion Road, Wareham, MA 02571, (508) 291-3100.

Within 15 business days after receipt of the complaint, the ADA Coordinator will meet with the complainant to discuss the complaint and possible resolutions. Within 15 business days after the meeting, the ADA Coordinator will respond in writing, and, where appropriate, in a format accessible to the complainant, such as large print, Braille, or audio tape. The response will explain the position of the Town of Wareham and offer options for substantive resolution of the complaint.

If the response by the ADA Coordinator does not satisfactorily resolve the issue, the complainant and / or his / her designee may appeal the decision of the ADA Coordinator within 15 business days after receipt of the response to the administration or his / her designee.

Within 15 business days after receipt of the appeal, the administrator or his / her designee will meet with the complainant to discuss the complaint and possible resolutions. Within 15 business days after the meeting the administrator or his / her designee will respond in writing, and, where appropriate, in a format accessible to the complainant, with a final resolution of the complaint.

All written complaints received by the ADA Coordinator, appeals to the administrator or his / her designee, and responses from the ADA Coordinator and administrator or his / designee will be kept by the Town of Wareham for at least three years.

Public Notification Requirements

Public Notice is to be given to employees and to the general public that the Town of Wareham does not discriminate on the basis of disability. The Town will translate any public notices into appropriate format to ensure proper communication with persons with disabilities. At all public meetings, the Town will (with advance notice) provide sign language interpreters and documents can be translated into Braille or reprinted into a large print format by request.

Wareham has an Affirmative Action Equal Opportunity Employment Plan. All recruitment materials, employment postings, and employment advertisements, state that the Town is an Equal Opportunity Employer. This serves as a notice of non-discrimination. The Town adheres to the standards for Affirmative Action, the Americans with Disabilities Act, and the Equal Opportunity Employer law.

Facility Inventory and Transition Plan

Elizabeth Pezzoli, Town of Wareham Council on Aging, assisted the Open Space Committee in evaluating the properties relevant to the Open Space and Recreation Plan for their accessibility to persons with disabilities. Unfortunately, due to financial constraints, Wareham is not currently offering recreation programs. Wareham's beaches, and recreational areas were evaluated. The following information was obtained by a visual inspection of each property.

Little Harbor Beach (Little Harbor Road)

Little Harbor Beach is a quarter-mile rocky beach located in Buzzards Bay. The paved parking area has designated handicap parking and a seasonal handicap accessible portable toilet. A Town of Wareham Parking Permit is required to park in the paved parking area.

Activities: Swimming, sunbathing, wind surfing—a limit of 24 wind surfing boards are allowed on weekends during the summer season, no weekday limit.

Transition Plan: Recommend placing handicap accessible benches along the paved parking lot facing the beach.

Onset Beach (Onset Avenue)

Onset Beach is a three-quarter mile stretch of smooth sandy beach located on the inner side of Onset Bay. It is a protected area with no surf. Onset pier borders one side of the beach. The paved parking lot has four designated handicap parking areas. Handicap accessible bathrooms (open during the summer months) are located in the Harbormaster's building located in the parking area.

Activities: Swimming, sunbathing, fishing from the pier, fishing and tour boats are available at the pier. A concession stand is located on the other side of the pier.

Transition Plan: No proposed changes

Pinehurst Beach (Pinehurst Drive)

Pinehurst Beach is a small beach, less than one acre, located on a channel that runs briskly by the beach. There is no parking lot or bathroom facility. Limited parking is available along Pinehurst Drive. Foot and bicycle traffic are most prevalent.

Activities: Swimming, sunbathing, clamming by permit only

Transition Plan: No proposed changes

Shell Point (South Avenue)

Shell Point is a quarter-mile area at the far end of Onset Beach. There is a small paved parking area; no bathroom facility. Parking is free. The nearest bathroom facility is on Onset Pier.

Activities: Swimming, sunbathing

Transition Plan: Recommend accessible benches and picnic table on paved parking area

Swifts Beach and Swifts Neck (Shore Road, Circle Drive)

Swifts Beach and Swifts Neck Beach are sandy beaches located on Buzzards Bay. The Town of Wareham owns the beach area from Shore Road to Swifts Beach Road. The paved parking area on Shore Road has designated handicap parking and an accessible bench; the paved parking area off Circle Drive also has handicap designated parking. Seasonal portable toilets are available in the parking area on Circle Drive. A Town of Wareham Parking Permit is required to park in the beach parking areas.

Activities: Swimming, sunbathing, boating

Transition Plan: No proposed changes

Richard H. Arrunda Playground (Marion Road)

Arrunda Playground is a 0.4-acre playground adjacent to the Wareham Free Library. There is a paved parking area with designated handicap parking. The closest bathroom facility is at the library; it is handicap accessible. The site has picnic tables and benches but they are not handicap accessible. Playground equipment includes a medium height wooden climb on structure, a wooden tot climb on structure with swings, climbing platforms, trapeze bar, and chin-up-bar. There is enough room between the equipment to accommodate a wheelchair.

Activities: Picnicking and playing

Transition Plan: No proposed changes

Mary Besse Park & Pier (Main Street)

Besse Park is on the Wareham River. The paved parking area has designated handicap parking. The park lacks a bathroom facility. The picnic tables are not handicap accessible. A handicap accessible fishing pier extends into the river and a cement path, suitable for wheelchairs, extends along the river for the entire length of the park. There is no launch area but boats can be moored at the floating docks.

Activities: Picnicking, fishing, bird watching, enjoying the scenic river views

Transition Plan: No proposed changes

Brown Memorial Playground (Union Avenue)

The Brown Memorial Playground is in a fenced enclosure adjacent to the Hammond School. The paved parking area has designated handicap parking and all equipment is adjacent to an accessible path. There is no bathroom facility. The two tennis courts are fenced and in good shape. There is a basketball half-court with a dirt playing surface, a large climb-on structure with additional play equipment, and swings. There is enough room between the equipment to accommodate a wheelchair.

Activities: Playing, basketball, tennis

Transition Plan: Improve the basketball court

Carver Road Tennis Courts (Carver Road)

The Carver Road Tennis Courts have a paved parking area that lacks any designated handicap parking. The courts are adjacent to an accessible path. There is no bathroom facility.

Activities: Tennis

Transition Plan: No proposed changes

John W. Decas School Playground (Main Street)

Decas School Playground, adjacent to Decas School, has a paved parking area with designated handicap parking, but parking is not close to the playground. The playground is behind a fence; wood chips cover the ground. Equipment includes high and low monkey bars, metal climbing structures, climbing platforms, spiral slides, chain ladder, and a funnel and ball game.

Activities: Playing

Transition Plan: No proposed changes

East Wareham Elementary School Playground (Knowles Avenue)

The East Wareham Playground is a 1.5-acre facility adjacent to the East Wareham Elementary School. The paved parking area does not have designated handicap parking. There is no bathroom facility. Equipment consists of several size swings and a small flat open field. There is enough room between the swings for a wheelchair although the apparatus is not designed for the handicapped.

Activities: Swinging, playing

Transition Plan: Recommend adding a picnic table that will accommodate a wheelchair

Ellis Playground (North Boulevard)

Ellis Playground is a 0.4-acre fenced play area on the beach of Muddy Cove. There is no parking area; parking is allowed along North Boulevard. The area is sandy and not wheelchair accessible. There are picnic tables and benches. A youth-sized wooden climb-on structure includes ladders, a wooden bridge, and platforms; the tot-sized wooden climb-on structure has a slide, platforms, and a steering wheel.

Activities: Picnicking, playing, bird watching

Transition Plan: No proposed changes

High School Tennis Courts (Viking Drive)

The High School Tennis Courts have a paved parking area. There is no designated handicap parking. A high fence surrounds the three tennis courts. The public is allowed to use the courts whenever they are not in use by the school.

Activities: Tennis

Transition Plan: No proposed changes

Indian Mound Playground (Shawnee Drive)

The Indian Mound Playground is a 2.3-acre fenced clay surfaced play area with a gravel parking area. There is no designated handicap parking. There are picnic tables and benches, a wooden climb-on structure equipped with platforms, clatter bridge, fire poles, a metal arch, and a slide. There is also a tire swing, monkey bars, a round-a-bout, a small baseball field, and a backstop. This playground has a handicap accessible sand table, tic-tac-board, and swings. There is enough room between the equipment to accommodate a wheelchair.

Activities: Picnicking, playing, baseball

Transition Plan: No proposed changes

Lopes Playground (Onset Avenue)

The Leonard C. Lopes Playground is a 4-acre site with a gravel parking area; no designated handicap parking. There is a large, handicap accessible, wooden climb-on structure in the shape of a dragon. The structure includes several slides, balance beams, swings, bridges, overhead rings, chin-up bars, and ladders. The site has picnic tables and benches, a picnic shelter adjacent to an accessible path, two basketball courts, and a softball field. The playground is adjacent to an accessible path and there is enough room between the equipment to accommodate a wheelchair.

Activities: Picnicking, playing, baseball, basketball

Transition Plan: No proposed changes

Oakdale Playground (Apple Street)

Oakdale Playground is a 3-acre site on the Agawam River. There is no parking area; on-street parking is allowed although space is very limited. The picnic shelter and picnic tables are wheelchair accessible and all facilities are handicap accessible via a paved path. In addition to a basketball court, a small ball field with backboard, and a volleyball net, the wooden tot climb-on structure has slides, a ramp, a ladder, steering wheels, and a platform; the climb-on wooden ship has three levels. Additionally, there are swings, a round-a-bout, teeter totters, and monkey bars. A fence surrounds the playground. There is enough room between the equipment to accommodate a wheelchair.

Activities: Picnicking, playing, baseball, basketball, volleyball, bird watching

Transition Plan: No proposed changes

Shangri-La Playground (Restful Lane)

Shangri-La Playground has a gravel parking area with no designated handicap parking. This site is a 1-acre, bowl shaped sand lot at the intersection of three roads. There are benches, picnic tables, a basketball court, a ball field with backstop, a wooden tot climb-on structure with a ramp, a wooden bridge, and a ladder, a youth climb-on structure that has a tire crawl, barrel slide, tire swing, and a ladder. There are swings and a metal climb-on spider with fire pole. There is enough room between the equipment to accommodate a wheelchair.

Activities: Picnicking, playing, baseball, basketball,

Transition Plan: Improve access to the playground by creating a gradual slope and / or tiered stairs. Power wash and paint equipment.

Swifts Neck Beach Playground (Circle Drive)

Swifts Neck Beach Playground is an 8-acre sandy lot adjacent to Swifts Neck Beach. There is no parking area and parking is not allowed on the street. There is a parking lot at Swifts Beach; a Town of Wareham Parking Permit is required to use this lot. A seasonal portable toilet is provided at the playground. The playground has picnic shelters, picnic tables, and benches. There is a basketball court, a wooden climb-on train suitable for tots and youths. Equipment includes swings, slides, fire pole, tire climb, platform, steering wheel, barrel crawl, tire crawl, tire swing, and monkey bars. There is enough room between the equipment to accommodate a wheelchair.

Activities: Playing, basketball

Transition Plan: Add a handicap accessible paved path to access all equipment

Sylvester Gardens Playground (Marion Road)

Sylvester Gardens Playground is behind Wareham's Multi-Service Building. There is a paved parking area with designated handicap parking; handicap parking is not close to the playground. There are two basketball courts with a hard surfaced playing area and benches for spectators. The playground is in a graveled, fenced enclosure. The entrance path is eroded, rocky, and uneven. The playground area has two metal picnic tables, a sandbox, a metal climb-on structure with climbing wall, and a wooden climb-on structure with a ramp, a slide, and a barrel crawl.

Activities: Picnicking, playing, basketball

Transition Plan: Repair entrance to the playground

West Wareham School Playground (Main Street)

West Wareham Playground has a paved parking area with designated handicap parking. This 0.5-acre site has picnic tables, benches, swings, monkey bars, a climb-on wooden boat, basketball half-court, and volleyball net. There is enough room between playground equipment to accommodate a wheelchair.

Activities: Playing, basketball, volleyball

Transition Plan: No proposed changes

Weweantic Playground (Hathaway Street)

Weweantic Playground has a dirt parking area with no designated handicap parking. This 4-acre site has a large open field, a basketball half-court with a dirt playing area, picnic tables, benches, and a picnic shelter in poor condition. There is a wooden climb-on structure suitable for tots and youths. Apparatus includes slides, fire pole, swings, climbing platforms, and tic-tac-toe. The playground is paved and there is enough room between the equipment to accommodate a wheelchair.

Activities: Picnicking, playing, basketball, soccer

Transition Plan: No proposed changes

Employment Practices

All position announcements for the Town of Wareham include a non-discrimination statement—"THE TOWN OF WAREHAM IS AN EQUAL OPPORTUNITY EMPLOYER. APPLICATIONS FROM WOMEN AND MINORITIES ARE ENCOURAGED". Announcements are posted in accessible areas. Questions asked during employment interviews relate solely to the qualification required for that position.

The Town of Wareham does not discriminate:

- in the recruitment, selection, or promotion of employees
- in regard to leave administration for sick time, leave of absence, or vacations
- in training opportunities – any training provided by the Town is administered so that employees with disabilities can participate
- in testing – tests measure job skills and qualifications only; State Department of Personnel Administration tests are used for Civil Service positions
- in Social / Recreational programs – all social and recreational programs sponsored by the Town are made accessible to employees with disabilities
- in Fringe Benefits – Employees with disabilities are offered the same benefits as those employees without disabilities
- in Collective Bargaining Agreements – Qualified employees with disabilities may participate
- in Wage and Salary Administration – Employees with disabilities are not offered different rates of compensation based on disability



TOWN OF WAREHAM
AFFIRMATIVE ACTION EQUAL OPPORTUNITY EMPLOYMENT PLAN
SECTION III
RESPONSIBILITY FOR IMPLEMENTATION OF THE EQUAL OPPORTUNITY PLAN

The BOARD OF SELECTMEN shall be responsible for the implementation of the Affirmative Action Plan. To ensure the Town's personnel policies and practices incorporate the Plan's objectives, the Board of Selectmen delegates administrative responsibility for the Plan to the Affirmative Action Officer.

The Affirmative Action Officer for the Town of Wareham is designated as the DIRECTOR OF EQUAL OPPORTUNITY PROGRAMS. The Director shall have the authority to review and pass upon affirmative action plans, recommend approval or disapproval of appointment forms and personnel requisitions and shall be given a sign off on all personnel requisitions and appointment forms and shall report all disapprovals to the Board of Selectmen. The Director shall be provided with sufficient authority, management support and staff to be responsible for the execution of the following responsibilities:

1. developing policy statements, affirmative action programs and internal and external communications techniques
2. assisting in the identification of problem areas
3. assisting department heads in arriving at solutions to problems
4. designing and implementing audit and reporting systems
5. serving as the liaison between the Town and the Commission
6. serving as the liaison between the Town and appropriate organizations and community action groups concerned with employment opportunities for minorities and women
7. keeping the Board of Selectmen and the Town Administrator informed of the latest development in the area of equal opportunity

In addition to the Director of the equal opportunity plan, all DEPARTMENT HEADS shall have a significant role in the implementation of the Plan, including but not limited to:

1. assisting in the identification of problem areas and establishment of department goals
2. periodic audit of training programs and hiring and promotion patterns to identify impediments to the attainment of goals
3. regular discussions of supervisors and employees to assure that the affirmative action policies are being followed
4. review of the qualifications and capabilities of all employees to insure that minorities and women are given full opportunity for promotion and transfer
5. prevention of harassment of employees place through affirmative action efforts
6. developing intra-departmental communication technique
7. assisting line management in arriving at solutions to problems
8. meeting departmental objectives relative to hiring and promotions
9. removing impediments to the attainment of goals and objectives
10. periodic audit to ensure the facility (if not located in Town Hall) is in compliance in areas such as:
 - display of posters
 - desegregation of the building in policy and practice
 - affording minority and female employees full opportunity to participate in all town sponsored educational, training, recreational, and social activities
11. advising all supervisors that their work performance is being evaluated on the basis of their equal employment efforts as well as other criteria