Town of Narragansett

Comprehensive Plan: Baseline Report Roadmap Action Plan

Approved by the Narragansett Planning Board September 6, 2016
Adopted by the Narragansett Town Council September 5, 2017

Prepared by:
Horsley Witten Group, Inc.
McMahon Associates, Inc.
Comprehensive Plan:
Baseline Report

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Appendix A: Narragansett Population Trends Report (June 2012)
Appendix B: Build Out Analysis
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INTRODUCTION

What is the Narragansett Comprehensive Plan?

The Narragansett Comprehensive Plan establishes a roadmap for land use and local government policy over the next 20 years. While the comprehensive plan is required by the Rhode Island Comprehensive Planning Act (R.I.G.L. 45-22.2), it is first and foremost a policy document created with the public that describes a shared vision of the community at large. Goals and policies are established to help decision makers guide future growth and protect the natural environment. The Narragansett Comprehensive Plan covers the following areas of land use management and local government policy.

The Narragansett Comprehensive Plan is made up of three volumes: The Baseline Report, The Roadmap, and The Action Plan. This document, The Baseline Report, is a snapshot of existing conditions as they relate to neighborhoods, parks, roadways, public services and facilities, the local economy, and historic and natural assets, among other things that define the quality of life in Narragansett. It includes inventories as well as projections of future needs and/or demands. This information is collected through town staff interviews, public meetings, outreach to key stakeholders, and review of existing reports and other documentation. The Baseline Report was prepared at the onset of the Comprehensive Plan update process and completed in 2013 with some minor edits before adoption. The purpose of this document is to provide the foundation for sound policy development moving forward.

The Roadmap is the primary policy document for the comprehensive plan. The document begins by describing the community vision for Narragansett. It then identifies the formative issues that will shape policy for each of the focus areas within the plan (e.g., Housing, Economic Development, etc.). Finally, the Roadmap lays out the framework for how the Town will reach its vision through established goals and objectives. It is the primary document used by decision makers and incorporates short, mid and long term action items.

The final volume, The Action Plan, details individual action items needed to meet goals and objectives. Responsible parties, such as town departments or boards and commissions, are identified along with implementation timeframes. Since the Comprehensive Plan has a 20 year outlook, action items are divided into short term (to be completed within five years), mid-term (to be completed between five and 10 years), and long-term (to be completed in 10 to 20 years) implementation periods.

Regional Setting

Narragansett is a coastal community located in Washington County, along the southern coast of Rhode Island (Map 1). North Kingstown is to its north and South Kingstown to its west. To the east and south, Narragansett is bordered by Narragansett Bay and Rhode Island Sound, respectively. Regionally, it is a tourist destination known for its scenic beauty. Many public state beaches, miles of scenic vistas, and public access opportunities to the coast draw visitors to the area, particularly during the summer months. Narragansett is approximately 30 miles from Providence, the State’s capital.
Map 1. Washington County Region

Table 1 shows reported populations of Washington County communities from the U.S. Census. Narragansett remains the fourth largest community in Washington County. In 2010, Narragansett lost the largest percentage of its population, followed by Westerly and Charlestown. Comparatively, while some municipalities have higher density in their town or village centers, overall Narragansett is the County’s most densely population town with 1,121 persons per square mile.

Table 1. U.S. Census Population of Washington County Communities, 1990-2010

<table>
<thead>
<tr>
<th>City/Town</th>
<th>1990</th>
<th>2000</th>
<th>2010</th>
<th>Total Population</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charlestown</td>
<td>6,478</td>
<td>7,859</td>
<td>7,827</td>
<td>-32</td>
<td>-0.4%</td>
</tr>
<tr>
<td>Exeter</td>
<td>5,461</td>
<td>6,045</td>
<td>6,425</td>
<td>380</td>
<td>6.3%</td>
</tr>
<tr>
<td>Hopkinton</td>
<td>6,873</td>
<td>7,836</td>
<td>8,188</td>
<td>352</td>
<td>4.5%</td>
</tr>
<tr>
<td>Narragansett</td>
<td>14,895</td>
<td>16,361</td>
<td>15,868</td>
<td>-493</td>
<td>-3.0%</td>
</tr>
<tr>
<td>New Shoreham</td>
<td>836</td>
<td>1,010</td>
<td>1,051</td>
<td>41</td>
<td>4.1%</td>
</tr>
<tr>
<td>North Kingstown</td>
<td>23,786</td>
<td>26,326</td>
<td>26,486</td>
<td>160</td>
<td>0.6%</td>
</tr>
<tr>
<td>Richmond</td>
<td>5,351</td>
<td>7,222</td>
<td>7,708</td>
<td>486</td>
<td>6.7%</td>
</tr>
<tr>
<td>South Kingstown</td>
<td>24,631</td>
<td>27,921</td>
<td>30,639</td>
<td>2,718</td>
<td>9.7%</td>
</tr>
<tr>
<td>Westerly</td>
<td>21,605</td>
<td>22,966</td>
<td>22,787</td>
<td>-179</td>
<td>-0.8%</td>
</tr>
<tr>
<td>Washington County</td>
<td>109,916</td>
<td>123,546</td>
<td>126,979</td>
<td>3,433</td>
<td>2.8%</td>
</tr>
</tbody>
</table>

DEMOGRAPHIC CHARACTERISTICS AND TRENDS

For the development of the comprehensive plan update, the Town prepared the Narragansett Population Trends Report. It is found in Appendix A of this Baseline Report and a summary of the report’s highlights is provided here.

Population Growth

According to the 2010 U.S. Census, Narragansett’s population dropped from 16,361 to 15,868. While the Town will use this statistic in its planning analysis of the community, Town staff is of the opinion that the U.S. Census under-counted the Town’s population and it has not lost individuals but remained flat. Overall, however, the 3% decline is small, but marks the first drop in Narragansett’s population since 1920. As show in Figure 1, since 1930, Narragansett has seen continuous growth. The most rapid population increases occurred between the 1960, 1970, and 1980. In 1960, the Town had only 3,444 residents. By 1970, this number rose to 7,138, a 107% increase in 10 years. In 1980, the U.S. Census reported a 67% increase in population with 12,088 residents. This growth is attributed to young families moving into Narragansett.

Figure 1 also shows population projections prepared by the Rhode Island Division of Planning through 2040. These projections are based on demographic trends of both the state and the town, considering deaths, births, net migration and population growth. It is projected that Narragansett’s population will remain relatively flat, gaining its 3% lost (413 residents) from 2000 by 2040. It should be noted that these projections are considered a “best guess” based on conditions over the past five years. As social and economic conditions in the region and throughout the state change, population growth will respond accordingly.

Figure 1. Narragansett Population, 1920 to 2040

In conjunction with this projection, the Town takes into consideration the results of its buildout analysis, which showed it is close to residential buildout (See Table 10). It is anticipated that an additional 1,009 year-round homes could be built on existing vacant or underutilized (lots that could be subdivided into buildable lots based on current zoning) lots. When or if these homes will be constructed is uncertain. The state and the New England region as a whole have been slow to rebound from the 2008 Great Recession compared to the rest of the country. The number of building permits issued in Narragansett for residential development that peaked in the early 2000s gradually declined and has been less than 50 per year for the past three years. If it is assumed that this rate continues, it will take 20 years for the Town to be fully built out, within the planning timeframe of this comprehensive plan.

Based on the addition of 1,009 new housing units, the population could grow by 2,805 by 2035. This is calculated using the average family household size (ACS 2010) for Narragansett, 2.78 persons. Average household size (2.36 persons) is somewhat skewed due to the large student population. As discussed in The Roadmap, the Town is implementing policies that hope to attract and reestablish families and year-round residents into these new housing units.

The Town does expect some growth in its population over the next 20 years. Based on these two sources, that growth can range from 400 people to almost 3,000. Major influences will be local housing policies that attract new, year-round residents and statewide policies that influence economic revitalization and job creation statewide and in the region.

Age Composition

Narragansett has seen significant shifts in age composition over the last 30 years as well. Figure 2 shows Narragansett’s population from 1980 to 2010 broken down into seven age groups called “cohorts” and some notable shifts appear. The most dramatic are decreases in the 25 to 34, 35 to 44, and 45 to 54 age cohorts. The Town’s population overall is trending older, as age cohorts over 55 are steadily increasing. In 1990 Narragansett’s median age was 31.2 years. In 2000 that number rose to 44.4 years. In 2010 the median age dropped slightly to 40.4 years, but this is expected to stay even or slightly increase in the coming decades.
If the population were divided into five-year age cohorts, specific age groups can be analyzed and other characteristics of the Town's population are revealed. Figure 3 compares 2000 with 2010 U.S. Census population data (See Appendix A for charts comparing 1980 through 2010) as population pyramids. Looking at the 2010 data set alone, there are several observations that can be made. First is the spike at the 20 to 24 age cohort, representing the college age population. Heavily influencing the Town's make-up, the 2010 Census reported 3,281 people in this age group, or 21% of the town’s population. By comparison, the 25 to 29 age cohort makes up just 4% of the overall state total. The University of Rhode Island (URI) located eight miles in the neighboring town of South Kingstown significantly affects this uneven population. According to URI, 55% of its students live off campus, and many choose Narragansett due to the availability of over 2,500 units of rental housing.
When comparing the 2010 population pyramid with the 2000 pyramid, a shift in the Town’s population between age cohorts is observed. The sizeable group of Baby Boomers moves through the age cohorts. In 2000, Baby Boomers were in the age cohorts between 30 and 45. In 2010 they are well-defined in age cohorts 40 to 65. The trend will be for this age group to continue to enter their senior years, and this bulge in the pyramid will more upward.

Also clearly defined in the 2010 chart is the restricted section in the 25 to 40 age cohort. One possible reason for this is lower birth rates during the late 1960s to around 1980 in the U.S. The low birth rate applies to age groups between 30 and 40, which is in between the Baby Boomer and the Echo Boomer.
generations. Another possible reason Narragansett is lacking younger adults is current economic trends. The 2010 pyramid shows an unstable population of younger adults, compared to the more stable pyramid in 2000. This indicates that a higher percentage of recent college graduates, young professionals, and first time home buyers, are moving out of Narragansett, or never had a chance to move in. This trend is most likely attributed to their inability to obtain a satisfactory standard of living. A resident’s standard of living is determined by factors such as income level, availability of employment, availability of affordable housing, and other factors that affect one’s level of wealth, comfort, and overall happiness.

In Narragansett, and many other cities and towns in the U.S., young adults are struggling to find entry level professional jobs and in tough economic times, the search for full-time employment is more difficult. This leads to unemployment or underemployment, and coupled with Narragansett’s high housing prices, a difficult environment is created for this age group to obtain a modest standard of living in Narragansett. As a result, young adults are emigrating to other communities, which may provide them with more opportunities. If economic and housing conditions remain unchanged in the area, this trend may continue in the future. These age structure trends are not unique to Narragansett; in fact they are very similar to other towns in Washington County.

**Youth**

The pyramids in Figure 3 also show a declining school age population. In 2010, Narragansett experienced a drop-off of 578 children, resulting in a 19% reduction in its youth population from 2000. At first, this decline looks abrupt, but after more analysis, this trend was not an anomaly. The overall younger population from 1980 to 2000 remained steady, but the overall population in older age cohorts increased. This resulted in a lower percentage of residents aged 18 and younger, compared to the overall total. In 1980, Narragansett had 2,945 residents aged 18 and under, representing 24% of the overall population. Comparatively in 2000, Narragansett had 2,994 residents aged 18 and under, but the percentage dropped to 18% of the overall population. In 2010, the percentage and the actual count came down to just 15% of the overall population with 2,416 residents in the 18 and under age cohort.

Over the past decade, the student population declined. As shown in Figure 4, in 2010, every age cohort of school-aged children experienced a decline. The most noticeable decline occurred in Narragansett’s youngest age groups, under 5, 5 to 6, and 7 to 9, which have all been in decline since 1990.

There are a few possible reasons. As previously mentioned, the first is a result of lower birth rates and national demographic trends. Second, the Baby Boomer generation has a significant effect on demographics. The declining birth rates and number of children under 9 seen in the 2000 and 2010 can be partially attributed to the end of the Echo Boomer generation. Another possible explanation for Narragansett’s declining youth populations could be attributed to rising housing prices in Narragansett and the difficulty for young families to settle in Narragansett. If similar economic and housing market conditions continue, Narragansett’s deficit of first time home buyers and young children could continue.

It is expected that the student population will steadily increase. According to the Narragansett School Department, student enrollment had been consistent since 2000 and has recently seen a slow increase in the past three years. In conjunction with local policies to attract young families and year-round residents, the Town anticipates growth, albeit slow growth, in their student population over the next 20 years (See Figure 8).
Figure 4. Narragansett Youth Population Trends, 1980-2010

Source: U.S. Census

Elderly

The Town of Narragansett has seen a steadily increasing elderly population since 1980 (Figure 5). In 1980, there were 1,136 residents aged 65 and older making up 9% of the Town’s population, by 2010, there were 2,645 Narragansett’s elderly residents representing 17%. The net increase in elderly residents from 1980 to 2010 was 1,509, meaning the Town’s elderly population has increased by 133% in the last 30 years.

One of the major reasons for this population trend is improved health care and lifestyles leading to longer life expectancy. Another reason for increases in 2010 is the aging Baby Boomers. 2010 was the first census year that Baby Boomers entered into the 65+ age bracket. This trend is just beginning. The oldest of the Baby Boomers in 2010 were just barely 65. The vast majority is still in their 50s. As a result, the numbers of elderly people in Narragansett for the 2020 and 2030 censuses are expected to be much higher than current numbers.
Seasonal Variation

As previously noted, the U.S. Census reported that the Narragansett’s population was 15,868 in 2010. During the summer season (June through August), it is estimated that it increases 114% to nearly 34,000 daily. While specific figures on the number of visitors into Narragansett during the high season are not kept, estimations were made in the Population Trends Report, found in Appendix A. This figure is conservatively derived from three primary observations: occupancy of seasonal vacant units (as reported by the U.S. Census), occupancy in local hotels and campgrounds, and average daily attendance at local and state beaches:

Narragansett has approximately 2,766 seasonal vacant units, which typically turnover on a weekly basis. If all units are occupied with an average of 3 persons per house, that would result in 8,298 overnight visitors.

In addition to rental properties, there are 12 bed and breakfasts, three hotels, and two motels, which total 340 available rooms. Further, there are two campgrounds with 297 sites. Assuming 90% occupancy and estimating 2.3 persons per room and three persons per campsite, an additional 1,515 persons are staying overnight in Narragansett.

Three state beaches, Scarborough, Salty Brine, and Roger Wheeler, were estimated to have an average of 8,395 people per day in July 2011. Acknowledging that some of these people were local residents or visitors already staying in overnight accommodations, it was assumed that 75% were day trippers, resulting in an additional 6,296 people.

There is also Narragansett Town Beach, which allows usage by non-residents. The Town averages 5,064 persons per day; however, it was assumed that only 25% were not local residents or overnight visitors. This results in another 1,266 day trippers.
There are three private beach clubs located in Narragansett, but figures regarding their attendance are not published. A conservative estimate of 1,000 for all three was used. It was assumed that only 25% were not local residents or overnight visitors, resulting in an additional 750 day trippers.

Of course, many others visit Narragansett to see the many other attractions in town, including restaurants, museums, parks, historic sites, and shopping. Special events also bring in visitors. As shown in Table 2, a conservative estimate of 33,993 people can be in Narragansett during a busy summer day.

### Table 2. Estimated Number of Seasonal Visitors to Narragansett

<table>
<thead>
<tr>
<th>Type of Visitor</th>
<th>Estimated Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seasonal renters</td>
<td>8,298</td>
</tr>
<tr>
<td>B&amp;Bs, hotels, motels, campgrounds</td>
<td>1,673</td>
</tr>
<tr>
<td>Day trippers: State beaches</td>
<td>6,296</td>
</tr>
<tr>
<td>Day trippers: Town</td>
<td>1,266</td>
</tr>
<tr>
<td>Day trippers: Private beaches and clubs</td>
<td>750</td>
</tr>
<tr>
<td>Estimated Daily Seasonal Visitors</td>
<td>18,125</td>
</tr>
<tr>
<td>Town’s Population</td>
<td>15,868</td>
</tr>
<tr>
<td>Estimated Daily Seasonal Population</td>
<td>33,993</td>
</tr>
<tr>
<td>Percentage increase over local population</td>
<td>114%</td>
</tr>
</tbody>
</table>

### Race and Ethnicity

The racial categories reported by the U.S. Census generally reflect a social definition of race recognized in this country and not an attempt to define race biologically, anthropologically, or genetically. In addition, it is recognized that the categories of the race in the U.S. Census include racial and national origin or socio-cultural groups. People may choose to report more than one race to indicate their racial mixture, such as “American Indian” and “White.” People who identify their origin as Hispanic, Latino, or Spanish may be of any race.  

According, Table 3 shows that residents of Narragansett predominantly identified themselves as white (98%). Small percentages identified as Black or African American, American Indian or Alaska Native, Asian, or some other race. Likewise, most residents said they are non-Hispanic or Latino.

---

Table 3. Racial Makeup of Narragansett Residents, 2010

<table>
<thead>
<tr>
<th>Race alone or in combination with one or more other races</th>
<th>% of Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>One race</td>
<td>98.7%</td>
</tr>
<tr>
<td>Two or more races</td>
<td>1.3%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hispanic or Latino</th>
<th>% of Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hispanic or Latino (of any race)</td>
<td>1.7%</td>
</tr>
<tr>
<td>White</td>
<td>96.9%</td>
</tr>
<tr>
<td>Black or African American</td>
<td>1.5%</td>
</tr>
<tr>
<td>American Indian and Alaska Native</td>
<td>1.3%</td>
</tr>
<tr>
<td>Asian</td>
<td>1.2%</td>
</tr>
<tr>
<td>Native Hawaiian and Other Pacific Islander</td>
<td>0.1%</td>
</tr>
<tr>
<td>Some other race</td>
<td>0.6%</td>
</tr>
<tr>
<td>Not Hispanic or Latino</td>
<td>98.3%</td>
</tr>
</tbody>
</table>

Source: U.S. Census

Education Attainment

Educational attainment is an indicator of a population’s employment characteristics, income levels, and overall quality of life. Narragansett’s education attainment for its residents 25 and older has been improving over the last 20 years. The 1990 Census reported that 87% of Narragansett residents were high school graduates or higher. In 2000, that figure rose to 91%. In addition to rising high school graduate rates, the percent of college graduates in the town has also been increasing. In 1990, 37% had a bachelor’s degree or higher. In 2000, that number improved to 42%.

As shown in Table 4, the American Community Survey (ACS) 2010 5-Year Estimate (2006 to 2010) reported that Narragansett’s residents on average were more educated than Rhode Island residents as a whole. The survey estimated that 96% of town residents 25 and over have a high school diploma or higher. By comparison, the Rhode Island statewide percentage was 84%. Narragansett was also exceeded the statewide percentage of 30% with 52% of its residents having a bachelor’s degree or higher.

Table 4. Level of Education Attainment for Residents 25 Years and Older, 2010

<table>
<thead>
<tr>
<th>Education Attainment</th>
<th>Narragansett</th>
<th>Rhode Island</th>
</tr>
</thead>
<tbody>
<tr>
<td>High school graduate or higher</td>
<td>96%</td>
<td>84%</td>
</tr>
<tr>
<td>College graduate (bachelor’s degree or higher)</td>
<td>52%</td>
<td>30%</td>
</tr>
</tbody>
</table>

Source: American Community Survey 2010 5-Year Estimates
These high levels of educational attainment in Narragansett, as compared to the overall state, play an important role in the town’s labor force. In most instances, educational levels affect one’s ability to stay employed and find work, especially in times of economic hardship.

**Income**

Income characteristics in municipalities are a good measurement of economic prosperity of the community and its residents. Resident income levels are considered to be one of the most important aspects when characterizing quality of life offered by a town, and median household income is the most commonly used statistic. It only displays disposable income, or total income minus personal taxation. It also takes into consideration pooling incomes (incomes of two or more people living in the same residence).

In Table 5, since the 1990 census, Narragansett has seen a large increase in its median household income. In 1990, the median household income in Narragansett was $35,545. In 2000, that number rose to $50,363, and in 2010 the median household income was $57,906. The overall result is a 62% increase in 20 years. This statistic is consistent with the Rhode Island’s statewide median household income, which increased by 63% in the same timeframe. While the trend has been a constant increase in median household income for both Narragansett and Rhode Island, Narragansett’s household income levels have stayed about 11% above the statewide levels.

**Table 5. Median Household Income, 1990, 2000, and 2010**

<table>
<thead>
<tr>
<th></th>
<th>1990</th>
<th>2000</th>
<th>2010*</th>
<th>Percent change over 20 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Narragansett</td>
<td>$35,545</td>
<td>$50,363</td>
<td>$57,906</td>
<td>+63%</td>
</tr>
<tr>
<td>Statewide</td>
<td>$32,181</td>
<td>$42,090</td>
<td>$52,254</td>
<td>+62%</td>
</tr>
</tbody>
</table>

*Estimated median income


Although Narragansett’s median household income level standing 11% above statewide average may seem significant, some towns are much higher. For example, in 2010, the Town of Barrington had a median household income of $94,300. This makes Barrington’s income levels 80% above statewide median average. In looking at this further, Narragansett is actually 27th out of 39 cities and towns in the state in highest median household income. In comparison, Narragansett’s neighboring towns of North Kingstown and South Kingstown have median household incomes of $76,316 and $71,192, respectively, ranking 8th and 12th in the state.

Narragansett’s low ranking in the state’s median household income statistics may come as a surprise to some considering its desirable, and pricey, properties on and around the coast. In looking beyond median household income, a few patterns appear that may explain this status of economic normality in a town many consider to be well-off.

The primary reason for Narragansett’s median household income being lower than its neighboring municipalities is its large population of college students. As previously mentioned, Narragansett’s demographics are highly affected by URI students living in the town. Most college students living off campus will have two or more roommates. Due to their academic course load, most college students do
not have full time jobs, or in some instances no job at all. Therefore, college students have incomes significantly lower than Narragansett residents who work full time. This lack of significant income in college households then skews the town’s median household income statistics.

Although still slightly weighted down by college household incomes, applying the mean household income instead of the median shows Narragansett much closer in comparison to its neighboring towns. In 2010, Narragansett had a mean household income of $87,557. To compare, the state mean was $71,934, North Kingstown’s was $100,768, and South Kingstown was $90,642.

The most useful statistics in evaluating and comparing Narragansett to other towns and Rhode Island as a whole are Narragansett’s percentage of family households to non-family households and the differentials in the median incomes of family households verses non-family households. Typically, family household income statistics are higher than overall household income statistics.

In 2010, Rhode Island’s statewide median family household income was 29% higher than median household incomes (Table 6). In Narragansett, the percent increase was much higher with 47%. This relationship in family household income compared to total household income in Narragansett is also much higher than the neighboring towns of North Kingstown (23% increase) and South Kingstown (30% increase). Narragansett’s more prominent family income differentials are a result of the town having a much higher percentage of non-family households, including student renters.

Table 6. Median Household Income and Median Family Income

<table>
<thead>
<tr>
<th>Town</th>
<th>Median Household Income</th>
<th>Median Family Income</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Narragansett</td>
<td>$57,906</td>
<td>$85,020</td>
<td>47%</td>
</tr>
<tr>
<td>North Kingstown</td>
<td>$76,316</td>
<td>$93,844</td>
<td>23%</td>
</tr>
<tr>
<td>South Kingstown</td>
<td>$71,192</td>
<td>$92,520</td>
<td>30%</td>
</tr>
<tr>
<td>Rhode Island</td>
<td>$54,902</td>
<td>$70,633</td>
<td>29%</td>
</tr>
</tbody>
</table>

Source: American Community Survey 2010 5-Year Estimates

Poverty

In many cities and towns in Rhode Island poverty is a serious problem. In Narragansett, statistical data indicates there is no exception. If one were to simply look at census data without any knowledge of Narragansett’s demographic makeup, one would assume Narragansett is one of the most poverty stricken towns in Rhode Island.

As shown in Table 7, in 2010, the ACS reported that 17% of Narragansett’s residents were living in poverty. This puts Narragansett well above Rhode Island’s statewide rate of 12%. However, like all demographics in Narragansett, these poverty statistics are heavily influenced by college student households, who often have their incomes supplemented with grants, loans, scholarships, part-time jobs, and/or money provided by parents or earned in summer employment. Therefore, the poverty status of college students is not considered to be an issue of overall community prosperity or economic health. As for the percentage of families in poverty in Narragansett the percentages were much lower. Only 5% of people living in family households were in poverty. This is much below the statewide rate of 8%.
### Table 7. Poverty Rates in Narragansett and Rhode Island, 2010

<table>
<thead>
<tr>
<th>Category</th>
<th>Narragansett</th>
<th>Rhode Island</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual</td>
<td>17%</td>
<td>12%</td>
</tr>
<tr>
<td>Under 18</td>
<td>4%</td>
<td>17%</td>
</tr>
<tr>
<td>18 to 64</td>
<td>22%</td>
<td>11%</td>
</tr>
<tr>
<td>64 and older</td>
<td>7%</td>
<td>9%</td>
</tr>
<tr>
<td>Families</td>
<td>5%</td>
<td>8%</td>
</tr>
</tbody>
</table>

*Source: American Community Survey 2010 5-Year Estimates*

In looking at the data further, it becomes apparent that the vast majority of Narragansett’s residents living in poverty are most likely URI students. Also shown in Table 7, Narragansett residents aged between 18 and 64 were twice more likely to be in poverty than the statewide average (22% in Narragansett compared to 11% statewide). This is influenced by the estimated 2,114 out of the Town’s 3,246 college students that were in poverty, representing 65% of the college demographic. In comparison only 4% of Narragansett residents under 18 were living in poverty; that number was 17% for the entire state. Seven percent of senior residents aged 65 and over in Narragansett were living in poverty. This was below the statewide rate of 9%. In total, Narragansett was estimated to have 2,743 people in poverty in 2010, of which, college students represented 77% of that group. By comparison, statewide college students make up only 14% of the total population in poverty. This large college factor, in a relatively small community has a profound impact on the overall poverty rate. Research has shown that this college poverty factor is seen in other small college municipalities in the U.S. One example is Clemson, South Carolina. Clemson is a small college town of 13,230 people with a poverty rate of 34%; however, college students account for 79% of the people in poverty.
LAND USE

The location of land uses influence where and how people live, work, and play. Evaluating land uses allows the Town to identify areas it wants to protect and to find areas suitable for new development and infill. Narragansett is known for its scenic beauty, natural resources, and access to the coast. This is why it has a strong tourism economy. Many also live in Town because of its seaside character. But the local population also requires services and other businesses to meet basic needs. To maintain a high quality of life for residents and sustain the features that attract visitors, the Town must balance development with resource protection.

The Narragansett Zoning Ordinance and Subdivision and Land Development Regulations are the primary tools the Town uses to monitor where development occurs and reduce its impact on the natural environment. It also can give guidance on the aesthetics of development, ensuring that it is attractive and consistent with the Town’s character.

History of Land Use Regulation

The Town of Narragansett passed its first zoning ordinance in 1930, which was enabled by a special state act in 1927. The primary goal of these early land use regulations was to separate commercial and residential uses, which has resulted in much of the existing land use pattern.

Narragansett’s early ordinance was framed on an urban model, allowing 1,500 square foot residential lots, which exist in higher density neighborhoods today throughout town. When the more modern zoning was implemented, these lots, most being used as summer homes, became legal substandard lots of record. As time went on, the Town experienced economic and environmental impacts of over development. Summer housing was being converted to year-round use and without adequate public services such as potable water and sewers, the natural environment became stressed.

In 1987, the Town adopted a zoning plan that specifically incorporated environmental considerations into density and setback requirements. Using a mapped environmental inventory, the ordinance designated coastal and freshwater wetlands, high water table soils, coastal resources, steep slope, and flood plain overlay districts. Development within these districts requires staff and/or board review. Revisions to the zoning ordinance also made the town's regulatory process consistent with that of Rhode Island Coastal Resources Management Council’s (CRMC) objectives within the local special area management plan (SAMP). The new area and setback requirements reduced the rate of growth in sensitive areas, provided greater protection for natural resources, and help to protect against septic system failures in areas with marginal soils.

Land Use Overview

Narragansett’s physical and topographic make-up clearly defines the Town, its neighborhoods, and its land uses. Located on three end-to-end peninsulas with islands and barrier beaches, each part of town shares its identity with a waterbody, the coastline, and a location on the linear spike of the Town’s road system.

Narragansett is dominated by residential uses. According to Table 8, much of the residential areas are developed at a medium-high density (1/4 to 1/8 acre lots). Commercial uses are located near these areas and service the local neighborhoods. The Town still maintains a significant percentage of
undeveloped areas (nearly 50%), due to environmental constraints to development and local conservation efforts.

**Table 8. Land Use/Land Cover as a Percentage of Total Acreage**

<table>
<thead>
<tr>
<th>Land Use Category</th>
<th>% of Total Acreage</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Density Residential (&lt;1/8 Acre Lots)</td>
<td>4.11%</td>
</tr>
<tr>
<td>Medium High Density Residential (1/4 to 1/8 Acre Lots)</td>
<td>20.09%</td>
</tr>
<tr>
<td>Medium Density Residential (1 to 1/4 Acre Lots)</td>
<td>9.85%</td>
</tr>
<tr>
<td>Medium Low Density Residential (1 to 2 Acre Lots)</td>
<td>2.18%</td>
</tr>
<tr>
<td>Low Density Residential (&gt;2 Acre Lots)</td>
<td>0.78%</td>
</tr>
<tr>
<td>Residential Development Subtotal</td>
<td>37.01%</td>
</tr>
<tr>
<td>Agriculture (Cropland, Idle, Pasture)</td>
<td>2.31%</td>
</tr>
<tr>
<td>Developed Recreation</td>
<td>4.50%</td>
</tr>
<tr>
<td>Commercial (Sale of Products and Services)</td>
<td>2.86%</td>
</tr>
<tr>
<td>Industrial (Manufacturing, Design, Assembly, Etc.)</td>
<td>0.21%</td>
</tr>
<tr>
<td>Institutional (Schools, Hospitals, Churches, Etc.)</td>
<td>1.55%</td>
</tr>
<tr>
<td>Roads (Divided Highways &gt;200' Plus Related Facilities)</td>
<td>0.34%</td>
</tr>
<tr>
<td>Water and Sewage Treatment</td>
<td>0.15%</td>
</tr>
<tr>
<td>Vacant/Urban Open</td>
<td>0.28%</td>
</tr>
<tr>
<td>Other Developed Lands Subtotal</td>
<td>12.22%</td>
</tr>
<tr>
<td>Beaches</td>
<td>0.94%</td>
</tr>
<tr>
<td>Brushland (Shrubs and Brush Areas, Reforestation)</td>
<td>8.57%</td>
</tr>
<tr>
<td>Forested Areas</td>
<td>33.80%</td>
</tr>
<tr>
<td>Rock Outcrops</td>
<td>0.36%</td>
</tr>
<tr>
<td>Sandy Areas (Not Beaches)</td>
<td>0.38%</td>
</tr>
<tr>
<td>Surface Water</td>
<td>1.85%</td>
</tr>
<tr>
<td>Wetlands</td>
<td>4.72%</td>
</tr>
<tr>
<td>Undeveloped Lands Subtotal</td>
<td>50.63%</td>
</tr>
</tbody>
</table>

Source: RIGIS Land Use Coverage, 2011

**Land Use Planning Districts**

As shown in Map 2, the Town is generally thought of as three Planning Districts: North End, the Central Area, and the South End. Each has unique residential, commercial, and industrial areas as well as parks and open space.
Map 2. Planning Districts
North End
The North End extends from the town line with North Kingstown to Sprague Bridge at The Narrows (Map 3). It is bordered by the Pettaquamscutt River (locally referred to as Narrow River) to the west and Narragansett Bay to the east. Boston Neck Road (U.S. Route 1A) is the major roadway running north/south. Christoforo Park is an asset to the North End and provides active recreational opportunities for residents.

North End Residential Areas
Within the North End, there are several diverse neighborhoods that were established prior to the zoning reform in 1987. They are:

- Forest Lakes
- Pettaquamscutt Terrace
- Rio Vista
- Mettatuxet
- Riverdell
- Bridgeway East
- Pettaquamscutt Lake Shores
- Hillview Acres
- Edgewater
- Bonnet Shores

Northgate and Riverfront Estates are newer neighborhoods built under the current environmental requirements. These modern subdivisions incorporate cluster design and preserve a significant portion of the developments as open space to reduce environmental impacts. Greenbelt buffers were provided along the southern portion of Boston Neck Road.

On the bay side of Boston Neck Road, Bonnet Shores covers Bonnet Point and the hillsides surrounding Wesquage Pond. This broad area contains modestly built homes on 50-foot lots of what was originally a summer colony. Increases in housing values over the past several decades have caused substantial improvement and renovation. South of Bonnet Shores lie less numerous plats of larger lots and more substantial neighborhoods are located along the rocky shore leading to Anawan Cliffs.

The North End subdivisions on Narrow River and Bonnet Shores are characterized by suburban-styled development of single family homes. These areas house higher-than-average numbers of young and growing families, and in the case of Bonnet Shores, also house a substantial number of college students during the school year.

Much of the land in this area is characterized by high watertable soils and historically the wet season frequently created problems with septic systems, contributing to bacterial pollution to the Narrow River via storm drain systems and overland flow. In 2001, through bond referenda, the Town completed the North End Sewer Project. Sanitary sewers in eight neighborhoods, serving 1,190 properties, were installed along with four pump stations, a force main, and 13.3 miles of pipeline.
Map 3. North End Current Land Uses
North End Commercial Areas
Despite relatively high peak traffic flows during the summer months, the North End commercial areas situated along Boston Neck Road rely on the locally-oriented demand of year-round residents. These commercial areas extend from the intersection of Bridgetown and South Ferry roads south for about three miles. There are several restaurants and neighborhood-oriented commercial uses.

North End Industrial Areas
Two major industrial areas are located off of South Ferry Road. The North Star Industrial Park is privately owned and consists of 16 one-acre lots with full utilities, including sewers. It has been developed to house local service-type industries, including automotive repair, waste collection and recycling, building contractors’ office and storage uses, heating service and oil delivery businesses, plumbing supply, and fish packing.

The South Ferry Industrial Park is state-owned with 11 lots of one acre or larger. It also has full utilities, including sewers. The Rhode Island Economic Development Corporation (RIEDC) markets the campus and they have attracted research and analytical laboratories, an industrial coating firm, various consulting firms, and a building fabrication firm. Significant areas of undeveloped, industrially-zoned land off of South Ferry Road are owned by the state through URI’s Graduate School of Oceanography (GSO). Both GSO and the adjacent federal laboratories of the USEPA, and NOAA have been designated as centers of excellence and represent major employment and world-renown information resources for the southern New England region.

Central Area
The Central Area and its surroundings extend from the north tip of Little Neck at Sprague Bridge south along Ocean Road to Wandsworth Street, and for the purpose of this plan, extend westward to the town line with South Kingstown (Map 4). Within this general area is what is considered a traditional town center including cultural, governmental, recreational, and educational facilities. Town Hall, the post office, the police and fire departments, and library are all located in the Central Area. It includes the major recreational facilities of Canonchet Farm and Sprague Park, and all of the Town’s schools and associated recreational areas. The Westmoreland Street Wastewater Treatment Plan is located in the outlying portion of the area.

Pier Marketplace, under private ownership, is at the heart of the Central Area and contains condominiums and commercial development. Adjacent is the public square with Veterans Park and Casino Park. The Town Beach is also in the area. Historic and cultural resources include the South County Museum and The Towers. By virtue of the of the graceful Victorian architecture of The Towers and the surrounding “cottages,” attractive beaches, shops, restaurants, and shoreline esplanade, the Central Area is largely used as a place for walking, jogging, sightseeing and socializing.
Map 4. Central Area Current Land Uses
Other Central Area Residential Areas
Residential areas immediately around the Pier Marketplace follow a more traditional grid pattern. Homes are predominately single and two-family structures. Similar to areas in the North End, smaller summer cottages have been substantially improved and renovated into larger residences. Larger homes on more expansive lots are found on Ocean Road, where summer “cottages” have also been renovated and converted for year-round use. Areas further out from the center off of Kingstown Road and South Pier Road are more modern, suburban style developments with single family homes.

Central Area Commercial/Industrial Strip
At the western end of the Central Area, surrounding the intersection of Woodruff Avenue, South Pier Road, and Point Judith Road (Route 108), is the Town’s principal automobile-oriented commercial strip center, including two large 175,000 square-foot shopping centers (Mariner Square and Salt Pond Shopping Plaza), a 40,000 square-foot office complex, and a small length of strip-style commercial development with a service station, liquor store, restaurants, Laundromat, car wash, hardware store, and recreation center. Walt’s Way Industrial Park is also located in this area. This area is highly visible and heavily travelled.

South End
There is no definitive natural feature to mark the South End Planning District, but roughly begins at Long Cove Camp Road and travels east to Windmere Road, and continues eastward to the coast. The Salt Pond islands are included in this planning district, as is the Point Judith Country Club, the state beaches, and Galilee.

South End Residential Areas
The South End neighborhoods are predominately single family homes on 5,000 to 15,000 square foot lots (Map 5). Like Bonnet Shores in the North End, homes in many of the neighborhoods of the South End were summer homes. According to the U.S. Census, it was estimated that 38% are seasonal housing (seasonal, recreational, or occasional use). There is a rapid and consistent trend toward the conversion of seasonal units into year-round residences. Many of these residences are rented to students between September and May and to vacationers in the summer months.

The principal neighborhoods in the South End include the following:

<table>
<thead>
<tr>
<th>Harbour Island</th>
<th>Sunset Shores</th>
</tr>
</thead>
<tbody>
<tr>
<td>Briggs Farm</td>
<td>SeaCrest Plat</td>
</tr>
<tr>
<td>Fort Green Estate</td>
<td>East Pond Heights</td>
</tr>
<tr>
<td>Eastward Look</td>
<td>Breakwater Village</td>
</tr>
<tr>
<td>Scarborough Hills</td>
<td>Village at Point Judith</td>
</tr>
<tr>
<td>Bon Vue Plat</td>
<td>Sea Breeze Plat</td>
</tr>
</tbody>
</table>
Map 5. South End Current Land Uses
On Point Judith Neck each subdivision is oriented toward a specific section of shoreline or cove area. The other defining characteristics are the level of utilities available. Sewered neighborhoods including Eastward Look, Scarborough Hills, Village at Point Judith, and Sea Breeze plat have tended to become occupied year-round while in many of the other Point Judith Neck neighborhoods seasonal occupancy is still quite common.

Among all developments in Narragansett, Breakwater Village is unique because of its evolution from a summer camp to residential condominiums. Residential densities are extremely high with the average lot size approximately 1,600 to 2,000 square feet and the size of housing is severely constrained due to small lot size. Roadways have undergone improvements, but are still narrow and leave very little room for parking. Despite its substandard aspects, Breakwater Village has a summer village character and some of the finest views of Block Island Sound in Narragansett. Consequently, Breakwater Village dwellings have commanded relatively high prices.

The South End community also includes major development on two islands in Point Judith Pond: Great Island adjacent to Galilee and East Pond, and Harbour Island (also known as Foddering Farm). Originally platted in the late 1940s and 1950s, these islands were built-up with summer houses on 50 by 100 foot lots. The islands still have a significant number of seasonal units; however, the trend since the late 1960s has been toward conversion to year-round use. Great Island, in particular, has in large part been converted by owners to retirement homes.

The islands are not sewered, however, the soils and subsoils are derived from glacio-fluvial deposits, and unlike other parts of town have good drainage characteristics. Ironically, in many parts of the islands, percolation rates are so rapid that sewage wastes may not be adequately treated before entering ground and surface waters. This is particularly true of nitrate from septic systems which cause eutrophication or clogging of estuarine waters. This is a watershed-wide problem that must be addressed. While there is virtually no public recreational land designed in the original subdivision plan for these islands, proximity to the shoreline and access to Salt Pond represent a tremendous amenity to the island residents. Many private piers and homeowner association owned access ways have been constructed. In addition, platted road ends may provide additional public access to the waters of Point Judith Pond. Controlling the proliferation of docks is an environmental issue.

South End Commercial Uses
Commercial use in the South End is focused primarily in the Galilee area where the fishing industry, sport fishing charter boats, sightseeing tour boats, seafood restaurants, seafood retail, a motel, and beaches are located. Much of the land use in the area is a mix of commercial activity directly related to the operation and product of the major industrial activity, fishing.

The Block Island Ferry provides transportation from Block Island to the mainland. In the spring, summer, and early fall recreational use of the ferry is high.

Other commercially-zoned land in the South End is located at the Knowlesway Extension and Route 108 intersection (the site of neighborhood-oriented retail operations) and at the junction of Route 108 and Ocean Road (the site of three restaurant). A fairly large portion of Point Judith in the vicinity of Breakwater Village is zoned B-C. This area as well as the adjacent public parcels may show some promise as a site for a marina/dry stack storage area.
South End Industrial Uses
Industrial uses in the South End are concentrated in the Port of Galilee, the State’s principal fishing port. It is home for approximately 230 commercial fishing vessels, including charter boats. In 2009 there were 179 vessels with federal permits ported in the area. Galilee fishermen have traditionally been highly opportunistic, fishing for a variety of species in the waters from Long Island to Georges Bank. In 2008, it was ranked 17th among U.S. fish ports for total value of landings in the country and 21st for weight. Associated with the fishing industry are a number of supporting businesses, including welding and fabricating, electronics, and repair. The Port of Galilee is on state-owned land and under state law and is not subject to local zoning regulations. The Town, however, is interested in working with the State to improve the overall appearance of Galilee and to promote its use as a major fishing port.

Existing Zoning Overview
Map 6 shows the Town’s current zoning districts, which are summarized in Table 9. Being a predominately residential community is reflected in the fact that nearly 81% of the town is zoned within one of its seven residential districts, and over one third as low-density (R-80).

Table 9. Summary of Narragansett’s Zoning Districts

<table>
<thead>
<tr>
<th>Zoning District</th>
<th>Zoning Code</th>
<th>Description</th>
<th>Approximate Acres Town-wide</th>
<th>Percent of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residential</td>
<td></td>
<td></td>
<td>7,242.30</td>
<td>80.6%</td>
</tr>
<tr>
<td>Low-density</td>
<td>R-80</td>
<td>Single family minimum lot size: 80,000 SF Areas with severe physical limitations for development, or which are within or adjacent to wetlands, intertidal zones, coastal ponds, rivers or watersheds</td>
<td>3,585.2</td>
<td>39.88%</td>
</tr>
<tr>
<td>Moderate-low density</td>
<td>R-40</td>
<td>Single family minimum lot size: 40,000 SF Areas where economic factors associated with extensive development are likely to discourage urban-intensity development Characterized by open space interspersed with residential and agricultural land uses</td>
<td>935.3</td>
<td>10.40%</td>
</tr>
<tr>
<td>Moderate density</td>
<td>R-20</td>
<td>Single family minimum lot size: 20,000 SF Moderate density residential areas, including certain open areas where similar residential development appears likely to occur</td>
<td>713.4</td>
<td>7.94%</td>
</tr>
<tr>
<td>High density</td>
<td>R-10</td>
<td>Single family minimum lot size: 10,000 SF High-density residential areas served by, or adjacent to, a public water system, plus areas where similar residential development appears desirable</td>
<td>1,949.4</td>
<td>21.68%</td>
</tr>
<tr>
<td>High density</td>
<td>R-10A</td>
<td>Single family minimum lot size: 10,000 SF High-density residential areas served by public water and public sewer systems, plus areas where similar development appears desirable.</td>
<td>36.7</td>
<td>0.41%</td>
</tr>
</tbody>
</table>

2 Rhode Island Ocean Special Area Management Plan, adopted October 2010
<table>
<thead>
<tr>
<th>Zoning District</th>
<th>Zoning Code</th>
<th>Description</th>
<th>Approximate Acres Town-wide</th>
<th>Percent of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planned Residential District</td>
<td>PRD</td>
<td>A floating zone designed to allow for redesign and replat of undeveloped plats of record containing legally recorded substandard lots Used in special conditions where development of preexisting subdivisions would interfere with goals of the Comprehensive Plan Allow for the transfer of development rights within the limits of the original plat, and to form a residential cluster that affords maximum protection of natural resources unsuitable for development. Development standards and design guidelines are provided and allowable density is based on several factors Incentives (subject to review) are offered that would increase density, building coverage, or reduce setbacks, among others.</td>
<td>1.5</td>
<td>0.02%</td>
</tr>
<tr>
<td>Breakwater Village Special Zoning District</td>
<td>SZD</td>
<td>Plat M, Lot 167-1 Recognizes the particular development pattern and physical characteristics of Breakwater Village. Provides relief to the unit owners with regards to zoning dimensional regulations Requirements for review by Breakwater Village Condo Association should an owner request a building permit or variance or special use permit from ZBR Dictates permitted uses, dimensional regulations, and special considerations for site design</td>
<td>20.8</td>
<td>0.23%</td>
</tr>
<tr>
<td><strong>Commercial</strong></td>
<td></td>
<td></td>
<td><strong>228.9</strong></td>
<td><strong>2.6%</strong></td>
</tr>
<tr>
<td>Limited business</td>
<td>B-A</td>
<td>Minimum lot size: 20,000 SF Building coverage 30% Retail of convenience goods such as groceries and drugs and the furnishing of personal services</td>
<td>32.7</td>
<td>0.36%</td>
</tr>
<tr>
<td>General business</td>
<td>B-B</td>
<td>Minimum lot size: 20,000 SF Building coverage 30% Retail of commodities and services dependent upon considerable vehicular and pedestrian traffic</td>
<td>124.7</td>
<td>1.39%</td>
</tr>
<tr>
<td>Waterfront business</td>
<td>B-C</td>
<td>Minimum lot size: 20,000 SF Building coverage 30% Retail of goods and services for water-oriented activities</td>
<td>71.5</td>
<td>0.80%</td>
</tr>
<tr>
<td>Zoning District</td>
<td>Zoning Code</td>
<td>Description</td>
<td>Approximate Acres Town-wide</td>
<td>Percent of Total</td>
</tr>
<tr>
<td>--------------------------</td>
<td>-------------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>----------------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>Industrial</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Limited industrial</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Zoning Code: I-A&lt;br&gt;Minimum lot size: 40,000 SF, building coverage 30%&lt;br&gt;Research industries and limited industrial uses, but general industrial uses are prohibited&lt;br&gt;The exclusion of general industrial uses is intended to promote the economic welfare of the town by preserving sites for research and limited industrial uses.</td>
<td>211.1</td>
<td>2.35%</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>General industrial</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Zoning Code: I-B&lt;br&gt;Minimum lot size: 40,000 SF, building coverage 30%&lt;br&gt;All industries are permitted uses except those deemed to be particularly obnoxious to the residents of the town.&lt;br&gt;The exclusion of nonindustrial development is intended to promote the economic welfare of the town by preserving special sites for industrial purposes and by controlling the mingling of residences and industrial uses, in accordance with G.L. 1956, § 45-24-33(10).</td>
<td>24.3</td>
<td>0.27%</td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
<td>1,284.1</td>
<td>14.3%</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Public use</strong>&lt;sup&gt;2&lt;/sup&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Zoning Code: P&lt;br&gt;Reserved for public and semi-public uses, including public parks, playgrounds, and recreation areas; golf courses; areas owned or occupied by the town, state, or federal government; and areas owned or occupied by the University of Rhode Island.&lt;br&gt;No residential, commercial, or industrial development is permitted, except that deemed necessary by the governmental entity that owns the land.</td>
<td>1,197.3</td>
<td>13.32%</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Urban renewal</strong>&lt;sup&gt;3&lt;/sup&gt;</td>
<td>24.0</td>
<td>0.27%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Zoning Code: UR&lt;br&gt;Land located within the Narragansett urban renewal project (RI-24) area</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Port of Galilee Special District</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Zoning Code:                                                                    &lt;br&gt;The purpose of the special planning district is to recognize the unique characteristics of Galilee, including its statewide importance as a commercial fishing port, and to achieve the goals of the Galilee Special District Plan.&lt;br&gt;Outlines use and dimensional regulations as well as design and site plan review requirements for five sub-zones, which include Public (P) and R-20 and those listed below&lt;br&gt;Parking is reviewed on a case-by-case basis and applicants for new developments are required to present a parking plan that addresses existing parking, projected demand, and a means of addressing the demand.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<sup>1</sup> Narragansett Comprehensive Plan *Baseline Report*<br>ADOPTED  September 5, 2017
<table>
<thead>
<tr>
<th>Zoning District</th>
<th>Zoning Code</th>
<th>Description</th>
<th>Approximate Acres Town-wide</th>
<th>Percent of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>G-Fi</td>
<td>The area that encompasses the developed waterfront and other areas which are to be used primarily for commercial fishing and related activities, and other water-dependent uses including charter fishing</td>
<td>31.8</td>
<td>0.35%</td>
</tr>
<tr>
<td></td>
<td>G-Fe</td>
<td>The area within the developed waterfront which is to be used for land-based activities supporting ferry service to Block Island</td>
<td>2.5</td>
<td>0.03%</td>
</tr>
<tr>
<td></td>
<td>G-B</td>
<td>The area which comprises the general commercial and mixed-used area which is to be used primarily for retail goods and services, commercial off-street parking and mixed uses</td>
<td>28.5</td>
<td>0.32%</td>
</tr>
</tbody>
</table>

*SF: Square feet*

*Source: Narragansett Zoning Ordinances*
Map 6. Zoning Districts
All these zones allow single-family homes. Two-family and duplex residential buildings are permitted by right with specified dimensional regulations in all residential zoning districts except R-80 (special use permit required). Multifamily developments (maximum of six dwelling units) are prohibited in R-80, but allowed by special use permit in other residential districts, where they are required to go through the land development review process and meet additional performance and design standards.

To address development constraints for substandard lots of record, including flag or hockey stick lots and lots with no street frontage, the Zoning Ordinance provides modified dimensional requirements in residential zones. The intent is not to impose more stringent requirements, but to recognize the unique conditions of these lots and provide property owners with development opportunities while still protecting neighborhood character and critical environmental resources.

There are two unique residential districts: the Planned Residential District (PRD) and the Breakwater Village Special Zoning District (SZD). The PRD is a floating district that allows by right the cluster of detached single family homes in all residential districts. It makes allowances for the redesign and replat of undeveloped plats of record containing legally recorded substandard lots. The intent of the PRD is to address development where preexisting subdivisions might interfere with the goals of the Comprehensive Plan. To do so, techniques such as transferring development rights and the use of cluster design are allowed. Design guidelines are prescribed and incentives can be offered upon review by the Planning Board.

The Breakwater Village SZD addresses the unique conditions of this site as a condominium summer colony converted to year-round residences. It provides unit owners relief from more conventional zoning dimensional regulations and requires the Breakwater Village Condominium Association to review requests for building permits as well as variance and special use permit applications to the Zoning Board of Review. The SZD also dictates permitted uses, and, due to its location near sensitive environmental areas, special conditions for site design.

The major differences between the Town’s commercial districts relate to allowable uses. The districts all share similar dimensional requirements with the exception of the minimum side yard setbacks, where B-A (Limited Commercial) and B-B (General Commercial) require 10 feet and B-C (Waterfront Commercial) requires 20 feet. All three districts have a minimum lot size of 40,000 square feet, building coverage of 30%, and maximum building height of 35 feet. Uses allowed in B-A are typically smaller, neighborhood-scale retail businesses and personal services, while B-B generate more pedestrian and auto traffic, such as larger supermarkets. Most uses allowed in B-A and B-B are not allowed in B-C, where the focus is on marine-related businesses.

Both industrial districts also share the same dimensional requirements, and are also distinguished by the allowable uses. Industries permitted in General Industrial are those that would not generate nuisances to residents. Residential uses are not permitted in these zones to ensure that there are locations for future economic opportunities. Uses permitted in Limited Industrial focus on research and less intensive industries.

The Port of Galilee Special District recognizes Galilee as the state’s primary fishing port and the purpose of the special district is to ensure that the industry is sustained and can grow. It also recognizes that there are surrounding uses that support tourism, such as the Block Island Ferry to New Shoreham, restaurants, and recreational boating for sightseeing tours and sport fishing charters. The special district is concentrated around the port area and is further divided into five sub-districts that include:
Galilee Fishing Zone
Galilee Ferry Zone
Galilee Business Zone
Public
R-20

The regulations outline permitted uses and dimensional requirements as well as design and site plan review requirements. Parking has always been an issue in the port area and the special district requires parking to be reviewed on a case-by-case basis.

Environmental Overlay Districts
As a result of the environmental mapping done in 1987, special overlay districts were incorporated into zoning, and include coastal and freshwater wetlands, coastal shoreline and other coastal features, areas with a high water table, steep slopes, and areas subject to flooding.

The Coastal and Freshwater Wetlands Overlay District comprises coastal and freshwater wetland features, including swamps, marshes, ponds, intermittent and perennial streams, and areas subject to flooding, among others listed in the Zoning Ordinance. The overlay district specifies prohibited uses and prescribe development standards, which detail setbacks and performance requirements. Proposed projects that do not meet development standards will require a special use permit.

The purpose of the Coastal Resources Overlay District is to preserve, protect, develop, and restore coastal resources and their ecological systems. Special use permits are required and development standards detail performance requirements. Areas that fall within this district include:

- Tidal waters and coastal salt ponds;
- Shoreline features including coastal beaches and dunes, barrier beaches, coastal cliffs, bluffs, and banks, rocky shores, and manmade shorelines; and
- Areas contiguous to shoreline features extending inland for 200 feet (“contiguous areas”), as these lands and waters are defined by CRMC.

The High Water Table Limitations Overlay District includes areas where the water table is within three feet below the surface of the ground for significant periods of the year, creating moderate to severe limitations for subsurface development. The overlay district is divided into two sub-districts. Areas within the overlay district “A” are those where the water table is generally within 18 inches of the surface. Overlay district “B” includes specified soils that can also be limited by a seasonal high water table. The overlay district prohibits certain uses and requires special use permits for OWTSs. Design standards limit maximum coverage for structures, paving and other impervious materials.

The Steep Slope Overlay District is comprised of areas with slopes that exceed 15%. In these areas there is a potential for severe soil erosion and problems with construction of buildings and OWTSs. Development standards apply to minimize cuts, fill, and regrading; control runoff and erosion, ensure that the leaching systems of onsite wastewater treatment systems are parallel with the general contours of the land; and ensure that footings of all structures extend into stable rock or soil.
The Flood Hazard Area Overlay District contains special flood hazard areas, including floodways and coastal high hazard areas. Special flood hazard areas are subject to recurrent flooding which presents serious hazards to the health, safety, welfare, and property of the residents of the town of Narragansett. Prohibited uses include, but are not limited to, any filling, encroachment, construction, or other development in a floodway which might cause an increase in flood levels within the town during the 100-year flood. Special use permits are issued for alterations of natural floodway features and construction of any flood barriers that divert floodwaters.

Development standards require a proposed project to be construction in a way that minimizes flood impacts to new structures and associated elements, as well as minimizing flood impacts on neighboring properties. Detailed requirements listed in the ordinance include structure elevations, construction materials, onsite wastewater treatment systems, and meeting standards established by the Federal Emergency Management Agency (FEMA) and CRMC.

**Historic Districts**
The Town has four local historic districts identified in the Town Ordinance:

- Central Street Historic District,
- Towers Historic District,
- Earles Court Historic District, and
- Ocean Road Historic District.

The purpose of the ordinance is to:

- Safeguard the heritage of the Town by preserving districts and structures which reflect elements of the Town’s cultural, social, economic, political and architectural history;
- Foster civic beauty;
- Stabilize and improve property values in such historic districts;
- Strengthen the local economy; to promote the use of such historic districts for the education, pleasure and welfare of the citizens of the town; and
- Provide, where feasible, housing, including but not limited to limited equity cooperative housing, and other housing for low and/or moderate income residents.

Surrounding each district are properties that contribute to the integrity of the district. While these properties are not required to present exterior alterations to the Historic District Commission, they are strongly encouraged to do so. The Commission will review proposed and offer guidance on methods to enhance historic features. Incentive can be offered.

**Build-Out Analysis**

Buildout projections were prepared to assess the potential for future residential growth in Narragansett. This type of analysis evaluates the entire land area of the Town for its development potential under current zoning regulations to the maximum extent allowable. Projections are based on land ownership, regulated zoning densities and applied assumptions.

Projections were developed by:
Identifying which lands are considered vacant (not built) and underutilized (current zoning would allow for a lot to be subdivided and additional unit(s) could be construction);
- Calculating parcel-specific constraints (wetlands, water bodies and open space designations); and
- Determining the remaining amount of developable land available for development under the existing zoning regulations.

As shown in Table 10, a preliminary buildout projection estimated the potential for an additional 578 to 1,598 units in the future. This range reflects, at the low end, the amount of ‘buildable’ land area in conforming lots (vacant) in the different residential zoning districts and, at the high end, the potential resulting from development of an additional 1,020 pre-existing lots (underutilized). In comparison, as of 2010, Narragansett had 9,470 housing units. Due to a gap in the Town’s parcel dataset (2004) as compared to the Town’s Computer Assisted Mass Appraisal (CAMA) dataset (current to 2012), the potential exists that some of the parcels identified for future growth have already been subdivided and/or developed. A review of the building permits from 2005 to 2011 revealed 271 permits approved for single family residential development. These permits may account for some of the projected units at full buildout, and should be considered when understanding the potential future growth of the Town overall.

To fully understand the reasonable context for growth in Narragansett, considered a beach resort community, several factors need to be further discussed. U.S. Census data for Narragansett (2010) includes a large seasonal demographic (24% or 2,314 households are seasonal). Therefore, a reasonable expectation for growth (and the secondary impacts of this growth) over the planning horizon likely resembles a percentage of the future potential growth that can be realized at full buildout. Several additional factors will also likely offset future potential growth (and impacts) that can be realized at full buildout. It is very unlikely that every underutilized parcel will be further subdivided and developed to the maximum extent allowable. Also, a percentage of new development will likely be realized through redevelopment. Finally, all development, whether new or redevelopment, is subject to the prevailing economic climate.

For more information, including a description of the assumptions and methodology used for the buildout analysis, see Appendix B.

For comparison purposes, we can show projections made in 1994 and 2008 to see the Town’s progression towards buildout (Table 11). In the 1994 Comprehensive Plan, it was estimated that the town was at 73% of its buildout and projected that it would be at full buildout by 2012, adding almost 3,000 new housing units. The analysis did not separate between lots that could be subdivided (underutilized lots) and those that were vacant. In 2008, the Comprehensive Plan projected that there was potential for another 1,800.
### Table 10. Buildout Summary

<table>
<thead>
<tr>
<th>Zoning District</th>
<th>Planning District</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>North End (units)</td>
<td>Central Area (units)</td>
<td>South End (units)</td>
</tr>
<tr>
<td>Residential High Density (R-10A)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vacant</td>
<td>NA</td>
<td>10</td>
<td>NA</td>
</tr>
<tr>
<td>Underutilized</td>
<td>NA</td>
<td>21</td>
<td>NA</td>
</tr>
<tr>
<td>Residential High Density (R-10)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vacant</td>
<td>87</td>
<td>82</td>
<td>183</td>
</tr>
<tr>
<td>Underutilized</td>
<td>121</td>
<td>431</td>
<td>166</td>
</tr>
<tr>
<td>Residential Moderate Density (R-20)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vacant</td>
<td>10</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Underutilized</td>
<td>4</td>
<td>8</td>
<td>28</td>
</tr>
<tr>
<td>Residential Moderate-Low Density (R-40)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vacant</td>
<td>42</td>
<td>49</td>
<td>41</td>
</tr>
<tr>
<td>Underutilized</td>
<td>57</td>
<td>38</td>
<td>11</td>
</tr>
<tr>
<td>Residential Low Density (R-80)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vacant</td>
<td>37</td>
<td>24</td>
<td>10</td>
</tr>
<tr>
<td>Underutilized</td>
<td>53</td>
<td>51</td>
<td>31</td>
</tr>
<tr>
<td>Total - Planning District</td>
<td>411</td>
<td>716</td>
<td>471</td>
</tr>
</tbody>
</table>

Total Town Wide - Vacant (low end) 578
Total Town Wide – Underutilized 1,020
Total Vacant and Underutilized (high end) 1,598

### Table 11. Comparison of Historic Buildout Analyses for Narragansett

<table>
<thead>
<tr>
<th></th>
<th>1994</th>
<th>2008</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vacant (low end)</td>
<td>NA</td>
<td>600</td>
<td>578</td>
</tr>
<tr>
<td>Underutilized</td>
<td>NA</td>
<td>1,200</td>
<td>1,020</td>
</tr>
<tr>
<td>Total Town Wide (high end)</td>
<td>2,983</td>
<td>1,800</td>
<td>1,598</td>
</tr>
</tbody>
</table>

Sources: 1994 Narragansett Comprehensive Plan, 2008 Narragansett Comprehensive Plan
ECONOMIC DEVELOPMENT

Economic development is the long-term process of improving the quality of life of residents with goals of creating more jobs and better paying jobs, growing property and sales tax base, reducing poverty, having a more diversified and stable economy, and improving public services. It requires active engagement from the community, including government, organizations, institutions, and businesses. Long-term efforts develop local talent, retain jobs, and foster an environment that supports job creation, local businesses, and entrepreneurs. Critical are maintaining affordable housing, a supportive community, and public services such as education and training opportunities, and even recreation and cultural possibilities. Economic development should be sustained over time and ought to provide young people with an opportunity to stay and work in the community or to return from college and find a good job.

When we characterize local economic conditions, we consider state or regional trends, where residents are working and in what types of industries, and what local employment opportunities are in town. We should also take into account the local business environment and is it considered business friendly. Equally important is the fiscal standing of the town and its ability to provide goods and services to residences and businesses.

State Trends

During the past decade, Rhode Island’s economy fluctuated dramatically, reflecting national trends and a persistent economic downturn after 2008. According to the Rhode Island Department of Labor and Training (RIDLT), between December 2001 and January 2007, Rhode Island experienced an economic upswing when private sector jobs grew by 5.4%, outpacing all other New England states; however that momentum slowed later in 2007. The state budget crisis, increased energy costs, and the housing market and credit collapse pushed Rhode Island into a recession nearly one year ahead of the rest of the nation. In December 2009, the state’s unemployment rate reached its highest in 30 years at almost 13% and for three months that percentage held steady. Nationally, unemployment reached its peak of 10% in October 2009 and then slowly improved. Rhode Island’s rate dropped to almost 12% in September 2010; however it still has the highest unemployment rate in New England and fifth nationally at 11% (2011). Job losses occurred in nearly all economic sectors with the largest declines in manufacturing, construction, profession and business services, financial activities, accommodation, food services, and government. RIDLT estimates that, between December 2006 and June 2011, Rhode Island lost 31,000 jobs, or -6%.

The National Bureau of Economic Research declared the end of the recession in June 2009, but national job losses continued. In Rhode Island, employment continued to decline until April 2010. This loss was exacerbated by the floods from the record-breaking rainfall in March 2010. RIDLT reports that 240 Rhode Island businesses employing nearly 4,900 workers were negatively affected by significant flooding.

Recovery is, and will continue to be, slow. RIDLT projects modest job growth statewide for all education and skill levels. By 2018, employment is projected to increase by nearly 40,000 jobs over 2008 levels. This projected growth will be driven primarily by the increased demand for products and services in the

---

health care and social assistance; professional, scientific, and technical services; educational services; retail trade; and accommodation and food services sectors. The RIDLT reports that the largest gains continue to occur in the health care and social assistance sector and project an increase of 13,000 jobs by 2018 in that sector alone.

This growth will be due largely to our aging population along with medical advances and new technologies promoted by the Knowledge Economy. Many people associate the Knowledge Economy only with high-technology industries such as telecommunication and financial services, and can include architects, bank workers, fashion designers, pharmaceutical researchers, teachers, and policy analysts, among many other vocations and professions.

**Local Workforce**

In 2010, there were an estimated 8,856 Narragansett residents in the workforce (16 years and older). Of these, 8,815 were employed in civilian jobs (not members of the Armed Forces). While decreasing by almost 5% from 2000 (Table 12), a majority of those employed still classified themselves as working for private entities. Increases were seen by those indicating they were government workers (25%) or self employed (10%).

**Table 12. Class of Worker of Employed Narragansett Residents, 2000 and 2010**

<table>
<thead>
<tr>
<th>Class of Worker</th>
<th>2000</th>
<th>2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Private wage and salary workers</td>
<td>6,244</td>
<td>5,384</td>
</tr>
<tr>
<td>Government workers</td>
<td>1,893</td>
<td>2,093</td>
</tr>
<tr>
<td>Self-employed in own not incorporated business workers</td>
<td>824</td>
<td>856</td>
</tr>
<tr>
<td>Unpaid family workers</td>
<td>25</td>
<td>29</td>
</tr>
</tbody>
</table>

*Source: 2000 U.S. Census, 2010 ACS 5-Year Estimates*

The increase in self-employed individuals and decrease in those employed by private businesses can be a reflection of the hard economic times Rhode Islanders have been experiencing in the later part of the decade. As of 2011, the state’s annual average unemployment rate was 11%, significantly higher than the national average of 9%. Narragansett’s annual average unemployment rate in 2011 was 8%, but, as shown in Table 13, represented the lowest number in the immediate region.

**Table 13. Average Annual Unemployment Rates, 2011**

<table>
<thead>
<tr>
<th>2011 Average Annual Unemployment Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Narragansett</td>
</tr>
<tr>
<td>North Kingstown</td>
</tr>
<tr>
<td>South Kingstown</td>
</tr>
<tr>
<td>State of Rhode Island</td>
</tr>
</tbody>
</table>

*Source: RI Department of Labor and Training, Labor Market Information, released March 2012*

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Figure 6 shows employment sectors for Narragansett residents. In 2010, most residents remained primarily employed in the same industry sectors as they did in 2000. Those in the education, health care, and social assistance services industry increased from one quarter to one third of residents. Increases were also documented in arts, entertainment, and recreation and accommodation and food services; professional, scientific, management, administrative and waste management services; retail trade; and wholesale trade industries. Residents working in the construction, manufacturing, public administration, and information industries had notable decreases, reflective of the state’s struggling economy.

**Figure 6. Employment Sections of Narragansett Residents, 2000 and 2010**

Source: U.S. 2000 Census, American Community Survey 2010 5-Year Estimates

It was estimated that in 2010 a majority of residents (85%) commuted alone for approximately 24.5 minutes, a good indicator that most individuals did not work in Narragansett (Table 14). Compared to 2000, however, while more residents commuted alone, they were driving fewer miles in 2010. There were some additional residents who were walking to work (2%), but those taking public transportation (1%) decreased. More people, however, were working from home at 4%, up nearly 1% from 2000.
Table 14. Commuting to Work Characteristics for Narragansett Residents, 2000 and 2010

<table>
<thead>
<tr>
<th>Commuting to Work</th>
<th>2000</th>
<th>2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Car, truck, or van -- drove alone</td>
<td>84%</td>
<td>85%</td>
</tr>
<tr>
<td>Car, truck, or van -- carpooled</td>
<td>9%</td>
<td>7%</td>
</tr>
<tr>
<td>Worked at home</td>
<td>3%</td>
<td>4%</td>
</tr>
<tr>
<td>Walked</td>
<td>1%</td>
<td>2%</td>
</tr>
<tr>
<td>Public transportation (excluding taxicab)</td>
<td>2%</td>
<td>1%</td>
</tr>
<tr>
<td>Other means</td>
<td>1%</td>
<td>0.6%</td>
</tr>
<tr>
<td>Mean travel time to work (minutes)</td>
<td>26.5</td>
<td>24.5</td>
</tr>
</tbody>
</table>


Local Businesses and Employment

When it comes to economic vitality, Narragansett is inherently linked to Washington County and its neighboring communities. It is a residential suburban community and the most densely populated municipality in Washington County. While it does not host the larger economic employers in the region, such as South County Hospital and the University of Rhode Island (URI) (both in South Kingstown) its geographic location provides unique economic opportunities. The beaches and fishing opportunities along the coast create a booming (but seasonal) tourism industry and also allows Narragansett to be home to URI’s Narragansett Bay Campus where marine research is conducted by the Graduate School of Oceanography, the U.S. Environmental Protection Agency, and the U.S. Fish and Wildlife Service, and to the state’s commercial fishing fleet at Galilee.

Table 15 provides an overall summary from the years 2005 to 2010 of the type of business in Narragansett by employment sector. Sectors that survived (and are surviving) the economic downturn and continued to remain established or grow in numbers were:

- Transportation and Warehousing
- Information
- Professional and Technical Services
- Education Services
- Health Care and Social Assistance
- Arts, Entertainment, and Recreation
- Accommodation and Food Services
- Government

Sectors that continued to experience closures without no new businesses taking their place were:

- Wholesale Trade
- Retail Trade
- Finance and Insurance
- Real Estate and Rental and Leasing
- Administrative Support and Waste Management
- Other Services (except Public Administration)
### Table 15. Estimated Number of Business Establishments in Narragansett, 2005-2010

<table>
<thead>
<tr>
<th>Employment Sector</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Private and Government</td>
<td>492</td>
<td>493</td>
<td>493</td>
<td>494</td>
<td>485</td>
<td>484</td>
</tr>
<tr>
<td>Total Private Only</td>
<td>474</td>
<td>474</td>
<td>474</td>
<td>474</td>
<td>465</td>
<td>464</td>
</tr>
<tr>
<td>Construction</td>
<td>50</td>
<td>47</td>
<td>48</td>
<td>47</td>
<td>49</td>
<td>46</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>21</td>
<td>20</td>
<td>20</td>
<td>18</td>
<td>18</td>
<td>19</td>
</tr>
<tr>
<td>Wholesale Trade</td>
<td>34</td>
<td>34</td>
<td>34</td>
<td>28</td>
<td>25</td>
<td>24</td>
</tr>
<tr>
<td>Retail Trade</td>
<td>50</td>
<td>52</td>
<td>53</td>
<td>55</td>
<td>50</td>
<td>48</td>
</tr>
<tr>
<td>Transportation and Warehousing</td>
<td>11</td>
<td>9</td>
<td>10</td>
<td>10</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>Information</td>
<td>5</td>
<td>5</td>
<td>4</td>
<td>*</td>
<td>*</td>
<td>6</td>
</tr>
<tr>
<td>Finance and Insurance</td>
<td>18</td>
<td>15</td>
<td>18</td>
<td>17</td>
<td>17</td>
<td>16</td>
</tr>
<tr>
<td>Real Estate and Rental and Leasing</td>
<td>32</td>
<td>33</td>
<td>31</td>
<td>29</td>
<td>29</td>
<td>27</td>
</tr>
<tr>
<td>Professional and Technical Services</td>
<td>48</td>
<td>47</td>
<td>50</td>
<td>48</td>
<td>49</td>
<td>53</td>
</tr>
<tr>
<td>Administrative Support and Waste Management</td>
<td>33</td>
<td>35</td>
<td>30</td>
<td>33</td>
<td>31</td>
<td>31</td>
</tr>
<tr>
<td>Educational Services</td>
<td>5</td>
<td>5</td>
<td>4</td>
<td>6</td>
<td>7</td>
<td>6</td>
</tr>
<tr>
<td>Health Care and Social Assistance</td>
<td>38</td>
<td>38</td>
<td>39</td>
<td>41</td>
<td>44</td>
<td>44</td>
</tr>
<tr>
<td>Arts, Entertainment, and Recreation</td>
<td>14</td>
<td>14</td>
<td>13</td>
<td>12</td>
<td>13</td>
<td>15</td>
</tr>
<tr>
<td>Accommodation and Food Services</td>
<td>65</td>
<td>66</td>
<td>68</td>
<td>69</td>
<td>71</td>
<td>73</td>
</tr>
<tr>
<td>Other services (except Public Administration)</td>
<td>47</td>
<td>51</td>
<td>48</td>
<td>48</td>
<td>45</td>
<td>46</td>
</tr>
<tr>
<td>Government</td>
<td>19</td>
<td>20</td>
<td>19</td>
<td>20</td>
<td>20</td>
<td>20</td>
</tr>
</tbody>
</table>

Note: The Agriculture, Forestry, Fishing and Hunting Sector is not included because reported data do not appear to adequately represent the fishing industry as a whole in Galilee. Other data sources are considered in the Baseline Report.

*Data not available. Source: RIEDC, Community Profile, Narragansett (2012)*

Table 16 lists the average employment of local establishments in Narragansett from 2005 to 2010.

### Table 16. Average Employment of Local Business Establishments in Narragansett, 2005-2010

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Private &amp; Government</td>
<td>4,213</td>
<td>4,128</td>
<td>4,275</td>
<td>4,624</td>
<td>4,294</td>
<td>4,346</td>
<td>61,454</td>
</tr>
<tr>
<td>Total Private Only</td>
<td>3,168</td>
<td>3,089</td>
<td>3,210</td>
<td>3,485</td>
<td>3,272</td>
<td>3,323</td>
<td>61,454</td>
</tr>
<tr>
<td>Construction</td>
<td>113</td>
<td>117</td>
<td>123</td>
<td>121</td>
<td>96</td>
<td>94</td>
<td>$51,454</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>119</td>
<td>120</td>
<td>98</td>
<td>94</td>
<td>89</td>
<td>87</td>
<td>$49,217</td>
</tr>
<tr>
<td>Wholesale Trade</td>
<td>91</td>
<td>77</td>
<td>75</td>
<td>69</td>
<td>67</td>
<td>79</td>
<td>$63,199</td>
</tr>
<tr>
<td>Retail Trade</td>
<td>643</td>
<td>635</td>
<td>713</td>
<td>752</td>
<td>665</td>
<td>629</td>
<td>$27,059</td>
</tr>
<tr>
<td>Transportation and Warehousing</td>
<td>134</td>
<td>95</td>
<td>96</td>
<td>119</td>
<td>97</td>
<td>97</td>
<td>$36,394</td>
</tr>
<tr>
<td>Information</td>
<td>2</td>
<td>3</td>
<td>2</td>
<td>*</td>
<td>*</td>
<td>15</td>
<td>$61,341</td>
</tr>
<tr>
<td>Finance and Insurance</td>
<td>55</td>
<td>53</td>
<td>58</td>
<td>63</td>
<td>48</td>
<td>48</td>
<td>$73,450</td>
</tr>
<tr>
<td>Real Estate and Rental &amp; Leasing</td>
<td>96</td>
<td>95</td>
<td>100</td>
<td>113</td>
<td>97</td>
<td>96</td>
<td>$37,624</td>
</tr>
</tbody>
</table>
While the number of businesses in Narragansett remained stable until 2008, the number of people they employed fluctuated annually. This is reflective of the seasonal nature of local businesses. With a tourism-based economy, Narragansett sees the most economic activity between Memorial Day and Labor Day. Employment sectors that are typically encompassed within the industry are hospitality, including hotels, inns, and bed and breakfasts, as well as restaurants, entertainment and arts, recreational opportunities.

According to Table 15, in 2010, the Accommodations and Food Services employment sector had the greatest number of business establishments in Narragansett (73), which employed an estimated 1,160 people (Table 16), the most of all sectors. Because there are few hotels and other types of accommodation businesses in town, these establishments were primarily restaurants. The number of businesses in this sector incrementally increased each year and the number of people they employed increased accordingly. Table 16 also provides the annual average salary for an employee in this sector, about $16,200, a low wage; however these types of jobs, are typically part time, and, as previously stated, in a town like Narragansett, seasonal.

Professional and Technical Services (53 count), Retail Trade (48 count), Construction (46 count), Other Services (except Public Administration) (46 count), and Health Care and Social Assistance (44 count) were also employment sectors that had a large number of establishments in 2010. Growth varied by sector, but those that consistently gained new businesses were Professional and Technical Services and Health Care and Social Assistance sectors, two sectors that also maintain good wages and require specialized degrees or some other level of higher education or training.

In Narragansett, retail stores such as grocery stores, gear shops, and other amenity retail, are strongly supported by the tourism industry. Most visitors to Narragansett are “day trippers” or rent houses, rather than stay at hotels.

In some instances the sectors with the largest number of establishments did not necessarily employ a significant number of people. For example, while there were 53 Professional and Technical Services

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Professional and Technical Services</td>
<td>127</td>
<td>109</td>
<td>119</td>
<td>112</td>
<td>86</td>
<td>93</td>
<td>$63,861</td>
</tr>
<tr>
<td>Administrative Support and Waste Management</td>
<td>88</td>
<td>84</td>
<td>92</td>
<td>104</td>
<td>81</td>
<td>78</td>
<td>$30,038</td>
</tr>
<tr>
<td>Educational Services</td>
<td>4</td>
<td>5</td>
<td>5</td>
<td>10</td>
<td>9</td>
<td>4</td>
<td>$45,530</td>
</tr>
<tr>
<td>Health Care and Social Assistance</td>
<td>343</td>
<td>360</td>
<td>368</td>
<td>391</td>
<td>461</td>
<td>450</td>
<td>$41,121</td>
</tr>
<tr>
<td>Arts, Entertainment, and Recreation</td>
<td>158</td>
<td>155</td>
<td>171</td>
<td>171</td>
<td>159</td>
<td>158</td>
<td>$23,744</td>
</tr>
<tr>
<td>Accommodation and Food Services</td>
<td>941</td>
<td>932</td>
<td>963</td>
<td>1,136</td>
<td>1,104</td>
<td>1,166</td>
<td>$16,239</td>
</tr>
<tr>
<td>Other services (except Public Administration)</td>
<td>232</td>
<td>227</td>
<td>206</td>
<td>205</td>
<td>186</td>
<td>209</td>
<td>$26,602</td>
</tr>
<tr>
<td>Public Administration</td>
<td>1,045</td>
<td>1,039</td>
<td>1,066</td>
<td>1,141</td>
<td>1,022</td>
<td>1,023</td>
<td>*</td>
</tr>
</tbody>
</table>

Note: The Agriculture, Forestry, Fishing and Hunting Sector is not included because reported data do not appear to adequately represent the fishing industry as a whole in Galilee. Other data sources are considered in the Baseline Report.

*Data not provided by RIEDC or RIDLT. † Rhode Island sectors, RIDLT’s RI Employment and Workforce Trends 2011
Source: RIEDC, Community Profile, Narragansett (2012)
businesses, they only employed 93 people, less than two persons per business. The impact of these types of establishments on job creation is small.

Agriculture

Agriculture and the food industry as a whole have grown in Rhode Island over the past decade. The State of Rhode Island has put more focus on policies that preserve and enhance existing agricultural resources to promote economic development by way of local food production and the development of food products.

The agricultural community in Narragansett is small. Existing farms include Sunset Farm and Canonchet Farm. The Open Space and Outdoor Recreation Resources section details the master plans that protect existing uses on these sites, including small-scale farming, passive recreation, and natural resource protection. Sunset Farm rents its buildings for private functions and has retail space for products grown onsite, including cattle. Canonchet Farm is primarily focused on tourism and recreation, but has a small-scale community garden and raises some livestock, though not for slaughter.

Major Employers and Employment Centers

Businesses in Narragansett are diverse. RIEDC annually lists the state’s major employers, defined as companies or governmental organizations employing at least 100 people. Table 17 lists those located in Narragansett. According to the table, the Town of Narragansett employs 400, however, this is misleading. Approximately 200 are employed by the Parks and Recreational Department on a seasonal basis. Other major employers are URI, DeWal Industries (manufacturers of PTFE and UHMW-PE skived film), VNS Home Health Service, and Stop and Shop Supermarket.

Table 17. Companies and Governmental Organizations in Narragansett Employing 100 or More Persons (March 2011)

<table>
<thead>
<tr>
<th>Company</th>
<th>Number of Employees</th>
<th>Type of Industry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Narragansett School Department</td>
<td>434</td>
<td>Schools</td>
</tr>
<tr>
<td>Town of Narragansett</td>
<td>400</td>
<td>Government</td>
</tr>
<tr>
<td>University of Rhode Island (Bay Campus)</td>
<td>300</td>
<td>Colleges and universities</td>
</tr>
<tr>
<td>VNS Home Health Service</td>
<td>150</td>
<td>Home health service</td>
</tr>
<tr>
<td>DeWal Industries Inc.</td>
<td>135</td>
<td>Manufacturing of specialty films, tapes, and laminates</td>
</tr>
<tr>
<td>Ocean Rose Inn</td>
<td>120</td>
<td>Hotel and motel</td>
</tr>
<tr>
<td>George’s of Galilee</td>
<td>118</td>
<td>Restaurant</td>
</tr>
<tr>
<td>U.S. Environmental Protection Agency</td>
<td>100</td>
<td>Federal government – environmental programs</td>
</tr>
<tr>
<td>Aunt Carrie’s</td>
<td>100</td>
<td>Restaurant</td>
</tr>
<tr>
<td>The Stop &amp; Shop Supermarket Company LLC</td>
<td>100</td>
<td>Grocery retail</td>
</tr>
</tbody>
</table>

Source: RIEDC, Major Employers in RI March 2011

Other significant employers are listed in Table 18, which highlights companies employing, on average, more than 25 persons, but less than 100, in 2011. Those that are seasonal in nature, such as
restaurants, may increase their staff accordingly through part-time, temporary positions; as a result, number of employees may increase in the summer months.

**Table 18. Businesses in Narragansett Employing Between 25 and 100 persons (March 2011)**

<table>
<thead>
<tr>
<th>Company</th>
<th>Number of Employees</th>
<th>Type of Industry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Point Judith Country Club Inc.</td>
<td>80</td>
<td>Sports and recreation</td>
</tr>
<tr>
<td>Bonnet Shores Beach Club Condominium Association Inc.</td>
<td>70</td>
<td>Sports and recreation</td>
</tr>
<tr>
<td>Sand Hill Associates, Ltd</td>
<td>60</td>
<td>Restaurants and cafes</td>
</tr>
<tr>
<td>Ceismic Corporation</td>
<td>60</td>
<td>Technical and scientific research</td>
</tr>
<tr>
<td>SSHM Management Services Organization, Inc.</td>
<td>50</td>
<td>Accounting</td>
</tr>
<tr>
<td>The Washington Trust Company of Westerly (2 locations)</td>
<td>42</td>
<td>Banking</td>
</tr>
<tr>
<td>Marmaxx Operating Corporation</td>
<td>40</td>
<td>Apparel and accessories retail</td>
</tr>
<tr>
<td>Shaw’s Supermarket, Inc.</td>
<td>40</td>
<td>Grocery retail</td>
</tr>
<tr>
<td>Twin Willows Inc.</td>
<td>40</td>
<td>Restaurants and cafes</td>
</tr>
<tr>
<td>Homegoods Inc.</td>
<td>37</td>
<td>Floor and window coverings retail</td>
</tr>
<tr>
<td>Rite Aid Corporation (2 locations)</td>
<td>36</td>
<td>Drug stores and pharmacies</td>
</tr>
<tr>
<td>Porta Phone Co. Inc.</td>
<td>35</td>
<td>Auto equipment</td>
</tr>
<tr>
<td>Ocean Tides Inc.</td>
<td>35</td>
<td>Individual and family services</td>
</tr>
<tr>
<td>Eartec Company, Inc.</td>
<td>35</td>
<td>Wireline telecommunications equipment</td>
</tr>
<tr>
<td>Narragansett Counsel</td>
<td>30</td>
<td>Apparel and accessories retail</td>
</tr>
<tr>
<td>Bailey-Flood Narragansett Ford</td>
<td>30</td>
<td>Automobile dealer</td>
</tr>
<tr>
<td>EB Thomsen, Inc.</td>
<td>30</td>
<td>Canned and frozen foods</td>
</tr>
<tr>
<td>Southwind Corporation</td>
<td>30</td>
<td>Casual dining restaurants</td>
</tr>
<tr>
<td>Dave Handrigan’s Seafood Inc.</td>
<td>30</td>
<td>Fish and seafood products</td>
</tr>
<tr>
<td>Saber Holdings LLC</td>
<td>27</td>
<td>Grocery retail</td>
</tr>
<tr>
<td>RI Chrysler Dodge Inc.</td>
<td>25</td>
<td>Automobile dealer</td>
</tr>
<tr>
<td>Martone Painting Company</td>
<td>25</td>
<td>Specialty contracting</td>
</tr>
<tr>
<td>Hunt Marine I, LLC</td>
<td>25</td>
<td>Transportation Services</td>
</tr>
</tbody>
</table>

Source: Major Employers in Rhode Island, March 2011. RIEDC

There are three industrial parks in Narragansett where many of the businesses listed in the above tables are located. The following provides a brief description of each.

**Narragansett Bay Campus/South Ferry Industrial Park**

The Narragansett Bay Campus is located at the end of South Ferry Road and consists of 20 URI buildings that contain a mix of offices, research labs, classrooms, and meeting spaces. There is a total of roughly 300,000 square feet of built space, about half of which is contained in six major buildings: Horn Laboratory, South Laboratory, Watkins Laboratory, Center for Atmospheric Chemistry Studies, Coastal
Institute, and Ocean Science and Exploration Center which houses offices of the Dean and administrative staff, as well as the Claiborne Pell Marine Science Library, National Sea Grant Library, and the Inner Space Center.

Other notable features of the Narragansett Bay Campus include:

- A facility that provides continuous running seawater to the Ann Gall Durbin Marine Research Aquarium, Ark Annex to the Aquarium, and Luther Blount Aquaculture Laboratory;
- The Equipment Development Lab, which provides design, fabrication, and test capabilities for scientists;
- A large geological samples storage facility; and
- A dock for the RV Endeavor and a small boat facility;

And numerous specialized research facilities for physical and numerical modeling of large-scale ocean circulation or earth mantle behavior.

In addition, the URI Department of Ocean Engineering is located on the campus, with federal Environmental Protection Agency (EPA) and National Oceanic and Atmospheric Administration (NOAA) laboratories. The Narragansett Bay Campus also serves as homeport for the URI Graduate School of Oceanography’s (GSO) research vessel, RV Endeavor, with a pier located along the campus waterfront. The pier allows for efficient staging of cruises and easy access to the open ocean, only a few miles south of the campus.

It is estimated that nearly 300 faculty, marine research scientists, graduate students, and administrative, professional, technical, and support staff comprise the GSO community at the Narragansett Bay Campus.⁶

**North Star Industrial Park**

Located off of South Ferry Road, the North Star Industrial Park is privately owned and consists of 16 one-acre lots with full utilities, including sewers. It has been developed to house local service-type industries, including automotive repair, waste collection and recycling, building contractors’ office and storage uses, heading service and oil delivery businesses, plumbing supply, and fish packing. There are also small manufacturing businesses that develop and assemble water treatment machinery and underwater instrumentation.

**Walt’s Way Industrial Park**

Walt’s Way Industrial Park is located off of South Pier Road near the intersection with Point Judith Road (Route 108) and the on-ramp to U.S. Route 1. Industries within the park include marine and automotive services and repair, fish packaging, HVAC services, solid waste removal, and fabrication of commercial and industrial machinery.

**Point Judith/Galilee**

Point Judith/Galilee is the home to the state’s largest fishing port. The Rhode Island Department of Environmental Management (RIDEM) manages the port and maintains security with the U.S. Coast Guard. The commercial port contains 40 piers in all for commercial berthing. There are 202 assigned

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⁶ [http://www.gso.uri.edu/narragansett-bay-campus](http://www.gso.uri.edu/narragansett-bay-campus)
slips and approximately 230 commercial vessels are registered with RIDEM. In 2010, Point Judith/ Galilee ranked as the 4th largest port in New England and 26th largest U.S. port in dollar value of landings. RIDEM reported in that year that vessels in Point Judith/Galilee landed 67.3 million pounds valued at $69.2 million. The top species landed by value were lobster, Loligo (squid), and fluke. For perspective, in 2005, Point Judith was ranked the 15th largest port in the U.S. for value of landings and 22nd for landings weight.\(^7\)

Businesses and industries that support the commercial fisheries are also located in the area, including dealers, processors, truck transportation, fueling, supply ice, electronics, and gear, among other vessel and equipment services. The port is also where the Block Island Ferry docks.

In 2007 a study was conducted that evaluated the economic impact of saltwater recreational fishing in the State of Rhode Island. According to the report, it generated a total economic impact of $160 million in direct and indirect expenditures. Saltwater angling was the 8th largest tourist attraction in Rhode Island. Fishing charters are largely located in Washington County.\(^8\) It can be assumed that many vessels leave from Galilee and Jerusalem.

Within the port area are also businesses catering to tourists, including restaurants, souvenir shops, and a hotel. Many tourists are on their way to Block Island or a chartered fishing trip. Weekly rentals are nearby as well as Salty Brine State Beach and Roger Wheeler State Beach.

Aquaculture is also active in Point Judith Pond. According to the 2013 Aquaculture Annual Status Report\(^9\) released by CRMC, there are 47.3 acres of aquaculture activities in the pond, or 3.05% of the total pond acreage. This figure represents more than half of the total acres dedicated to aquaculture in the South Coastal Ponds (Winnapaug, Ninigret, Potters, and Point Judith) that year (81.7 acres). The Eastern oyster is the dominant aquaculture product in Rhode Island, followed by hard clams and blue mussels. CRMC anticipates continued growth of the state’s aquaculture industry.

**Economic Development and Municipal Fiscal Health**

Economic development is linked to the fiscal health of a community. Municipalities in Rhode Island rely heavily on local property taxes to finance services and facilities. As a community dominated by residential uses, Narragansett also relies on property tax revenues. This reliance is shown in Figure 7, which shows the distribution of municipal revenue categories that support both school and municipal expenditures for fiscal years 1991/1992 and 2009/2010. Fiscal year 1991/1992 was selected because these figures were used in the 1994 Comprehensive Plan and were available for comparison with the current budget.

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Figure 7. Municipal Revenue into the Narragansett General Fund (Fiscal Years 1991/1992 and 2009/2010)

Municipal Revenue Categories of the General Fund (2009-2010)

- Investment & Interest: 5%
- Intergovernmental: 3%
- Licenses, Permits, Fines, & Forfeitures: 2%
- Interfund: 2%
- Miscellaneous: 1%
- Residential Property Tax: 8%
- Commercial/Industrial Real & Property Tax: 0%
- Recreation: 1%


- Investment/Interest: 12.8%
- Intergovernmental: 2.3%
- Fees/Fines/Licenses/Permits: 2.4%
- Interfund: 1.3%
- Miscellaneous: 1.4%
- Residential Property Tax: 77.7%
- Commercial/Industrial Property Tax: 2.1%
Notable differences are the shift in revenue sources. In 1991/1992, commercial/industrial property taxes comprised 12.8% of revenue. In 2009/2010, it decreased to 8%. Even though property taxes continue to contribute to the majority of municipal revenue which goes into the General Fund, there is more emphasis on intergovernmental and departmental sources. Intergovernmental revenues include state reimbursements for beach parking fees, civil preparedness, hotel tax, meal and beverage taxes, motor vehicle taxes, Rhode Island Health and Educational Building Corporation Housing Aid, and telephone tax. Revenue from investment and interest as well as licenses, permits and fees has reduced; however recreation funds are included in 2009/2010 and were not in 1991/1992.

Table 19 lists the various tax rates of Washington County communities. Narragansett has the lowest residential property tax rate, and its commercial real estate tax lies somewhere in the middle within the other surrounding communities. A lower rate is appealing for property owners, but meeting the service demands of residents must also be taken into consideration.

### Table 19. Tax Rates of Washington County Communities, 2010

<table>
<thead>
<tr>
<th>Municipality</th>
<th>Residential Property</th>
<th>Commercial Real Estate</th>
<th>Motor Vehicle</th>
<th>Business Personal Prop</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rate</td>
<td>% Full Val.</td>
<td>Reval. yr</td>
<td></td>
</tr>
<tr>
<td>Charlestown</td>
<td>$9.06</td>
<td>100%</td>
<td>2010</td>
<td>$9.06</td>
</tr>
<tr>
<td>Exeter</td>
<td>$13.44</td>
<td>100%</td>
<td>2008</td>
<td>$13.44</td>
</tr>
<tr>
<td>Hopkinton</td>
<td>$19.34</td>
<td>100%</td>
<td>2010</td>
<td>$19.34</td>
</tr>
<tr>
<td>Narragansett</td>
<td>$8.97</td>
<td>100%</td>
<td>2008</td>
<td>$13.45</td>
</tr>
<tr>
<td>North Kingstown</td>
<td>$17.26</td>
<td>100%</td>
<td>2009</td>
<td>$17.26</td>
</tr>
<tr>
<td>Richmond</td>
<td>$18.46</td>
<td>100%</td>
<td>2010</td>
<td>$18.46</td>
</tr>
<tr>
<td>South Kingstown</td>
<td>$14.51</td>
<td>100%</td>
<td>2009</td>
<td>$14.51</td>
</tr>
<tr>
<td>Westerly</td>
<td>$9.74</td>
<td>100%</td>
<td>2009</td>
<td>$9.74</td>
</tr>
</tbody>
</table>

Per $1,000 of Assessed Value

Tax Roll Year 2011 (Assessed 12/31/10)

# May exempt wholesale inventories Updated 9/15/2011

$ May exempt retail inventories Source: RI Realtors Association (www.riliving.com); Department of Municipal Affairs
COMMUNITY SERVICES AND FACILITIES

The Town of Narragansett offers many services to its residents, including water, sewer, public library, and public safety. The Parks and Recreation Department also runs a variety of programs for all ages. The Department of Public Works maintains some Town facilities, including roadways and the stormwater management system. The Parks and Recreation Department offer a variety of recreational programs for all ages, and maintain the Town’s many parks.

Engineering Division manages the town’s water supply as well as wastewater management. The following provides an overview of these services as well as the School Department and other responsibilities of the Town. An overview of community services are shown in Map 7. Parks along with other recreation and open space resources owned and managed by the Town are depicted on Map 18, Map 19, and Map 20 found in the chapter entitled “Open Space and Outdoor Recreation Resources” at the end of the report.
Map 7. Community Facilities
Town Administration and Operations

Narragansett government operates as a “council-manager” model. The Town Council is an elected body that sets town policies, passes local ordinances, and votes for appropriations. The Town Council appoints a Town Manager to oversee the daily operations of the municipality.

Most department offices are located within Town Hall, with the exception of the Department of Parks and Recreation located on Clarke Road, Department of Public Works located on Westmoreland Street, and the Police Department and Fire Department headquarters, which are on Caswell Street in the Public Safety Building.

Town-Owned Property Inventory

Town-owned properties, including buildings and grounds, are provided in Table 20.

Table 20. Town Facilities Inventory

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Property Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Government</td>
<td></td>
</tr>
<tr>
<td>Municipal / School Offices</td>
<td>25 Fifth Avenue</td>
</tr>
<tr>
<td>Schools (also used for Recreation)</td>
<td></td>
</tr>
<tr>
<td>Mumford Elementary School</td>
<td>55 Mumford Road</td>
</tr>
<tr>
<td>Narragansett High School</td>
<td>245 South Pier Road</td>
</tr>
<tr>
<td>Narragansett Pier School</td>
<td>235 South Pier Road</td>
</tr>
<tr>
<td>Park / Recreation / Open Space</td>
<td></td>
</tr>
<tr>
<td>Community Center</td>
<td>53 Mumford Road</td>
</tr>
<tr>
<td>Canonchet Farm</td>
<td>106 Anne Hoxsie Lane</td>
</tr>
<tr>
<td>Sprague Park Tennis Courts</td>
<td>51 Mumford Road</td>
</tr>
<tr>
<td>Recreation Department Maintenance Building</td>
<td>195 Kingstown Road</td>
</tr>
<tr>
<td>Grass Island</td>
<td>Caswell Street</td>
</tr>
<tr>
<td>Veterans Park</td>
<td>Memorial Square</td>
</tr>
<tr>
<td>The Towers</td>
<td>35/36 Ocean Road</td>
</tr>
<tr>
<td>Casino Park</td>
<td>25 Ocean Road</td>
</tr>
<tr>
<td>Narragansett Town Beach</td>
<td>Boston Neck Road</td>
</tr>
<tr>
<td>Beach Pond</td>
<td>20 Boston Neck Road</td>
</tr>
<tr>
<td>Water Access</td>
<td>Ocean Road (near Central)</td>
</tr>
<tr>
<td>Water Access</td>
<td>Ocean Road (near Continental)</td>
</tr>
<tr>
<td>Leroy Thompson Playground</td>
<td>Boon Street</td>
</tr>
<tr>
<td>Sprague Pond</td>
<td>Kingstown Rd/Lakewood Dr</td>
</tr>
<tr>
<td>Kingstown Road Park</td>
<td>Kingstown Road</td>
</tr>
<tr>
<td>Sprague Park Monument</td>
<td>Kingstown Road</td>
</tr>
<tr>
<td>Christofaro Park</td>
<td>1160 Boston Neck Road</td>
</tr>
<tr>
<td>Pettaquamscutt Lake Shores Tot Lot</td>
<td>Columbia Road</td>
</tr>
</tbody>
</table>
The discussion of schools in the context of the comprehensive plan focuses on meeting facility demands. Student enrollment will dictate if new buildings are needed and if school grounds meet the demands of local programs. Because the comprehensive plan guides land use decisions, locating new facilities, if needed, would be a reasonable projection to come out of the plan.

**Student Enrollment**

Demographic data presented earlier in this report showed decline in the number of school-aged children for the past eight years. This trend has since leveled off. This is consistent with the School Department’s student enrollment, which has been slowly declining over the past 10 years. However, the current school year (2012-2013) showed approximately the same number of students in September of 2012 as in June of 2012. Since 2005, enrollment of Narragansett school-aged children in non-public schools has also declined from 347 in 2005 to 166 in 2011.

Projections were made for the Town by the New England School Development Council (NESDEC) (January 2012) and are shown with past enrollment numbers in Figure 8. Cited factors taken into consideration when forecasting future student enrollment were:

- Real estate turnover and new residential construction;
- Migration, in or out, of the school system;
- Drop-outs, transfers, etc.; and
- Births to residents.
While student enrollment since the beginning of the 2000s declined, recent figures showed a leveling off in the past two years and, as noted, no decrease was seen in the current school year. This trend is expected to continue, modestly, as indicated in Figure 8.

**Figure 8. Student Enrollment and Projected Enrollment (NESDEC, January 2012)**

![Graph showing student enrollment and projected enrollment from 2001 to 2016.](image)

*Source: Narragansett School Department*

**School Buildings**

The School Department oversees three schools:

<table>
<thead>
<tr>
<th>School</th>
<th>Description</th>
</tr>
</thead>
</table>
| Narragansett Elementary School | 55 Mumford Road  
Grades: Pre-kindergarten to 4  
90,000 square-foot building, built in 1958  
Additions in 1968, 1973, and 1995  
20 +/- acres  
School bus parking lot  
Abuts Sprague Park and Canonchet Farm |
| Narragansett Pier School     | 235 South Pier Road  
Grades: 5 to 8  
65,000 square-foot building, built in 1990 |
Addition in 1995
15 +/- acres
Abuts high school

Narragansett High School
245 South Pier Road
Grades: 9 to 12
119,000 square-foot building, built in 1975
35 +/- acres Abuts Pier School

The School Department has a strong commitment to continued maintenance and upkeep of its facilities and grounds. Its Facilities Management Plan outlines a capital improvement plan for the School Department’s buildings and grounds over the next 20 years (2030). In 2006, voters approved a $21 million bond that addressed major improvements to all schools. The scope of work included roofing, windows, doors, heating and ventilation systems, some flooring and painting, and security improvements and a new science lab at the high school. This work was completed in 2008. There is currently a $7.5 million seven-year capital improvement plan (fiscal years 2010-2016). Within the first three years of this plan, the elementary school has received new classroom furniture and exterior doors and the West Wing was completely renovated including a new roof over that wing. The middle school also received new classroom furniture as well as new exterior lighting and exterior doors and the completion of tile floor replacement throughout the school. The parking lot roadways and basketball court were resurfaced. At the high school, new furniture was purchased for classrooms and the library renovated. Improvements were made to the soccer field, and the gymnasium/auditorium bathrooms were enlarged.

It should also be noted that all three schools are designated emergency shelters in the Town’s Hazard Mitigation Plan.

School Grounds
Each school has recreational fields and equipment. They are as follows:

Narragansett Elementary School
• One multipurpose field
• Two areas with playground equipment
• One multipurpose court

Narragansett Pier School
• One multipurpose field
• One softball/baseball diamond
• One basketball court

Narragansett High School
• One soccer field
• One softball diamond
• Track and field event venues
• One stadium field (football)
• One baseball diamond
The Town of Narragansett Athletic Fields Assessment and Master Plan report (June 30, 2011) reviewed both school and town-maintained athletic fields, evaluating condition and usage and recommending short-term maintenance and repairs for each field. The stated goal of the Master Plan is to provide sufficient fields, by type, such that the demand on any individual field does not exceed 200 scheduled team uses per year. This threshold maximizes use while allowing for proper irrigation and field maintenance. The assessment concluded that 11 of the 18 fields evaluated exceeded the usage goal. While they are not school-maintained fields, Field 3 at Domenic Christofaro (baseball) and Sprague Park (baseball) both exceeded 400 uses per year. Recommended uses for these fields are 200 and 225 respectively. The back field at the High School (baseball and multi-purpose), which is school-maintained, and the lower Field 2 at Domenic Christofaro (multi-purpose), which is town-maintained, both have 396 annual uses.

Two hundred uses are recommended for lower Field 2 and no uses are recommended for the back field at the High School.

The Master Plan lists many recommendations for the school- and town-maintained fields. The School Department is targeting improvements to the High School stadium for 2014, including turf, track, bleachers, lighting, restrooms, and concession stand.

Safe Routes to School
Safe Routes to School (SRTS) programs are sustained efforts by parents, schools, community leaders and local, state, and federal governments to improve the health and well-being of children by enabling and encouraging them to walk and bicycle to school. SRTS programs examine conditions around schools and conduct projects and activities that work to improve safety and accessibility, and reduce traffic and air pollution in the vicinity of schools. As a result, these programs help make bicycling and walking to school safer and more appealing transportation choices thus encouraging a healthy and active lifestyle from an early age.10

The Rhode Island Safe Routes to School Program, administered by the Rhode Island Statewide Planning Program, Rhode Island Department of Transportation, and the Safe Routes to School Steering Committee, receives federal funding, when available, to distribute grants to communities for local projects. Awards can be infrastructure projects, such as new crosswalks, sidewalk repairs, or traffic calming strategies, or non-infrastructure projects like walking clubs or traffic enforcement. In 2009, the Town was successful in acquiring Safe Routes to School funds for both types of projects as follows:

A $300,000 grant was received to address pedestrian and bike circulation into and around the middle and high schools. Informal paths to the school properties will be formalized and new pedestrian/bike access routes from South Pier Road will be made. New crosswalks will link a newer residential neighborhood on the south side of South Pier Road to the schools. The project is in the design phase.

A $4,500 was received for programs that promote biking and walking to school, including a bike rodeo. Bike to School days are regular events and use volunteers to bike with students to school.

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10 www.saferoutesinfo.org
Future School Needs
The current student enrollment is well below capacity of the School Department’s internal capacity and there is potential for growth within the system. In the interim, there is no intent by the School Department to surplus the available space. No new school buildings or expansions are needed in the current 20-year planning period.

The School Department’s Athletic Fields Assessment and Master Plan report concluded that the Town’s “robust” outdoors sports program should be met with 18 to 19 ball fields to evenly distribute teams and usage, rather than the 13 that the Town already maintains. The current level of usage is said to be unsustainable; however, the report recognizes that developing six new fields is not realistic. Some fields can withstand the high usage. They propose redevelopment of specific ball fields and a more strategic redistribution of field use to allow for periodic resting of specific fields. The Parks and Recreation Department will have to take this report into consideration when evaluating capital improvements and maintenance resources. With regards to recommendations to School Department grounds, the high school outdoor athletic facilities will be upgraded with improvements such as new synthetic turf, track, drainage, fencing, benches, score board, and lighting.

The School Department will continue to implement its 2008 Strategic Plan and Capital Plan for its buildings and grounds.

Public Safety
The Police and Fire Departments, which include emergency response personnel, are located in the Public Safety Building on Caswell Street. Improvements to upgrade the complex are moving forward and expected to be completed by 2014.

Police
The Police Department is headquartered at the Public Safety Building and has one sub-station in Galilee, which is shared with the State and only staffed during the peak summer season. The Department has several divisions, including the Harbor Master. There are currently 41 available police officer positions and 39 are filled. The Police Chief acknowledges that this is sufficient to meet the needs of the Town. Table 21 provides a summary of the Departments various divisions.

<table>
<thead>
<tr>
<th>Division</th>
<th>Staffing/ Responsibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrative Division</td>
<td>The Administrative Division is responsible for the administrative duties of the department, and includes the Chief of Police, Deputy Chief of Police, an Executive Secretary, and a Captain.</td>
</tr>
<tr>
<td>Canine Unit</td>
<td>The Canine Unit is K-9 Goro, who has been in service since 2012. He has located numerous breaking-and-entering suspects and received a number of commendations for his outstanding performance. He has also attended all three schools in Narragansett as a public relations tool. He has conducted demonstrations for all three schools, Boy Scouts of America and the Community Police Academy.</td>
</tr>
<tr>
<td>Detective Division</td>
<td>The Detective Division is staffed by one Lieutenant, one Sergeant, four detectives and a civilian fingerprint specialist.</td>
</tr>
<tr>
<td>Division</td>
<td>Staffing/ Responsibility</td>
</tr>
<tr>
<td>-----------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Prosecution Division</td>
<td>The Prosecution Division represents the Narragansett Police Department at the 4th Division of the District Court at the J. Howard McGrath Complex on Tower Hill Road for misdemeanor cases and the Rhode Island Traffic Tribunal at the Oliver Stedman Government Center, also on Tower Hill Road, for state traffic offences. Narragansett Municipal Court for local ordinance violations and municipal traffic offences is held Thursday nights at Town Hall.</td>
</tr>
<tr>
<td>Patrol Division</td>
<td>The Patrol Division includes three Lieutenants, five sergeants, and nine dispatches, which are shared with the Fire Department and EMS, and 20 officers.</td>
</tr>
<tr>
<td>Animal Control</td>
<td>There is one full-time and one part-time Animal Control Officer. The animal shelter is shared with the Town of South Kingstown, and it is located on Asa Pond Road in Wakefield.</td>
</tr>
<tr>
<td>Community Police</td>
<td>The Narragansett Police Department takes great pride in its efforts to reach out to the community. These include: School Resource Officers have presence in the local schools and run the DARE Program. The Community Police Division maintains an interactive relationship with the URI community. Officers meet with URI Officials to discuss any student related issues that may arise during the course of the school year. Officers also talk with URI Students about any quality of life issues. The Community Police Division participates in monthly meetings with the Narragansett Prevention Partnership. This relationship has helped to facilitate programs to fight underage drinking, underage smoking, fake ID’s and drunk driving. The Community Police Division also takes part in Child Safety Seat Installation. Officers are trained and nationally certified to correctly and safely install infant carriers and convertible seats. The Community Police Division takes part in the well-being and safety of the elderly in our community. They work with South County Elder Care, Tri-Town Community Action, and RI Elderly Affairs. The Community Police Division also monitors and collects data with state of the art technology in suspected speed problem areas.</td>
</tr>
<tr>
<td>Harbor Master</td>
<td>The Harbor Master also falls under the auspices of the Police Department and is responsible for policing the waters within the town’s jurisdiction and managing its coastal waters and harbors. The Town has the authority to regulate size, type, location, and use of all anchorages and moorings within the town’s public waters and impose penalties for violations of harbor management ordinances. The Harbor Master administers and enforces the provisions of the Harbor Management Plan (adopted in December 2006, and approved by CRMC May 2007) and subsequent ordinances.</td>
</tr>
</tbody>
</table>

Fire/Emergency Response
The Fire Department, including emergency medical responders, is also headquartered at the Public Safety Building on Caswell Street. As shown in Table 22, it employs 35 personnel:
Table 22. Fire Department Personnel

<table>
<thead>
<tr>
<th>Position</th>
<th>Total Staffing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Chief</td>
<td>1</td>
</tr>
<tr>
<td>Fire Marshall (Captain)</td>
<td>1</td>
</tr>
<tr>
<td>Administrative Assistant</td>
<td>1</td>
</tr>
<tr>
<td>Captain</td>
<td>4</td>
</tr>
<tr>
<td>Lieutenant</td>
<td>12</td>
</tr>
<tr>
<td>Firefighter/EMT-C</td>
<td>16</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>35</strong></td>
</tr>
</tbody>
</table>

Source: Narragansett Fire Department

As previously noted, the Department shares a dispatch with the Police Department. Staff is cross-trained in both fire response and medical response. Eight are on duty at all times. The Fire Department has three facilities, which are listed in Table 23.

Table 23. Narragansett Fire Department Stations and Equipment

<table>
<thead>
<tr>
<th>Station</th>
<th>Equipment</th>
<th>Staffing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Station 1 – Pier 40 Caswell Street</td>
<td>Engine 1&lt;br&gt;Reserve Engine 1&lt;br&gt;Ladder 1&lt;br&gt;Rescue 1&lt;br&gt;Fire Alarm Bucket Truck Marine 1 (14 ft inflatable)&lt;br&gt;One Pick-Up Truck (which tows Marine 1)&lt;br&gt;2 cars</td>
<td>4 on duty at all times</td>
</tr>
<tr>
<td>Station 2 – North 1170 Boston Neck Road</td>
<td>Engine 2 (cross-manned)&lt;br&gt;Rescue 2 (cross-manned)</td>
<td>2 on duty at all times</td>
</tr>
<tr>
<td>Station 3 – South 900 Point Judith Road</td>
<td>Engine 3 (cross-manned)&lt;br&gt;Rescue 3 (cross-manned)</td>
<td>2 on duty at all times</td>
</tr>
</tbody>
</table>

Source: Narragansett Fire Department

According to a recent audit performed on the Department, it responded to between 2,200 and 2,600 incidents annually in the last three years (Table 24). The audit concluded that the demand for emergency medical services (EMS) represents 60% of all calls for service and the demand for EMS in July and August increases by 40% to 50%.
Table 24. Narragansett Fire Department EMS and Non-EMS Calls for Service, 2008-2010

<table>
<thead>
<tr>
<th>Year</th>
<th>EMS Calls</th>
<th>Non-EMS Calls</th>
<th>Total</th>
<th>% EMS Calls</th>
<th>% Non-EMS Calls</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>1,390</td>
<td>846</td>
<td>2,236</td>
<td>62%</td>
<td>38%</td>
</tr>
<tr>
<td>2009</td>
<td>1,453</td>
<td>848</td>
<td>2,301</td>
<td>63%</td>
<td>37%</td>
</tr>
<tr>
<td>2010</td>
<td>1,592</td>
<td>1,078</td>
<td>2,670</td>
<td>60%</td>
<td>40%</td>
</tr>
</tbody>
</table>

Source: 2012 Fire Department Assessment Report, MMA Consulting Group, Inc.

The Fire Department receives mutual aid from the neighboring towns of North Kingstown (paid staff) and South Kingstown (volunteer staff). The three communities share resources and equipment when needed. The on-shift Captain makes a determination on a case-by-case basis on when to contact either town for assistance in responding to an emergency call. As shown in Table 25, calls for mutual aid range from 56 to 99 in the past three years.

Table 25. Narragansett Fire Department Calls for Service by Category, 2008-2010

<table>
<thead>
<tr>
<th>Category</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire</td>
<td>32</td>
<td>23</td>
<td>24</td>
</tr>
<tr>
<td>Structure</td>
<td>25</td>
<td>23</td>
<td>27</td>
</tr>
<tr>
<td>Subtotal</td>
<td>57</td>
<td>46</td>
<td>51</td>
</tr>
<tr>
<td>Rescue/EMS</td>
<td>1,390</td>
<td>1,453</td>
<td>1,592</td>
</tr>
<tr>
<td>False Alarm</td>
<td>299</td>
<td>258</td>
<td>350</td>
</tr>
<tr>
<td>Mutual Aid</td>
<td>56</td>
<td>99</td>
<td>87</td>
</tr>
<tr>
<td>Other Calls</td>
<td>434</td>
<td>445</td>
<td>590</td>
</tr>
<tr>
<td>Total</td>
<td>2,236</td>
<td>2,301</td>
<td>2,670</td>
</tr>
</tbody>
</table>

Source: 2012 Fire Department Assessment Report, MMA Consulting Group, Inc.

Emergency Management Agency
The Narragansett Emergency Management Agency (NEMA) is responsible for the planning, response, recovery, and mitigation of natural disasters, technological accidents, terrorism, and weapons of mass destruction. The NEMA Director is also the Fire Chief, and the Police Chief serves as the Deputy EMA Director. Through the Town’s website provides residents and businesses with information on preparedness and emergency notifications.

Public Safety Needs
Current public safety needs are being met with existing staffing levels and facilities. The projected increase in population over the next 20 years is no expected impact these services.

Maury Loontjens Memorial Library
The Maury Loontjens Memorial Library, located at 35 Kingstown Road, is the former Narragansett Public Library, renamed in 2007 in memory of the late Town Manager. The library is open Monday through Saturday and on Sundays September to May. It is adjacent to the Public Safety Building on Caswell Street. The building is approximately 9,300 square feet and total collection size of 60,700. In 2011, the library's circulation was about 186,700 pieces, an increase of 51% in six years. There are 12 computers
for Internet access with free Wifi which had over 23,600 uses in 2011, or an average of 455 uses per week, a 218% increase over 2009. The library participates in the Rhode Island Office of Library and Information Services’ (OLIS) inter-library loan program with other municipal libraries across the state through the Ocean State Libraries consortium.

The library is a very busy community space. With approximately 50% of town residents having library cards, the library keeps its space active by organizing approximately 31 programs per month for all ages. Tables fill up quickly as private tutors increasingly use the library as a place to meet students. Also very popular is a small conference room that can be reserved by community groups. In the summer, even seasonal visitors to Narragansett will venture into the library, particularly on rainy or very hot days.

**Future Library Needs**
The library is at capacity. Space in the building is limited, and the library is developing a building program based on its March 2012 assessment, which includes strategies for expansion and potential funding sources.

**Public Works**
The Public Works Department is organized into four divisions: Administration, Highway Maintenance, Facilities Maintenance (including maintenance of The Towers), and Fleet Maintenance and its overall major responsibilities are:

- Roadside mowing
- Maintaining a fleet of over 150 vehicles, equipment, and boats
- Maintaining town roads, including street sweeping
- Performing road reconstruction
- Removing snow and ice
- Maintaining the stormwater management system
- Maintaining traffic signs and markings
- Maintaining of Town Hall, Comfort Station, Avice Street Maintenance Facility, and The Towers
- Maintaining street trees
- Coordinating the residential recycling program

As show in Table 26, staffing includes both full-time and part-time employees.
The Department has a maintenance facility on Westmoreland Avenue. It has eight bays; four are used for vehicle maintenance, and four are used for Highway Division equipment storage. There is also outdoor storage for sand/salt, road construction materials, fleet vehicles, and other equipment. A scheduled building expansion will add office space for the Highway Division as well as indoor storage for vehicles and equipment.

**Solid Waste Management/Recycling**

The Town does not provide trash curbside pickup. Residents either use a private contractor or bring their own trash to the Rose Hill Regional Transfer Station located on 163 Rose Hill Road in South Kingston. The facility also accepts recyclable materials. From this facility, solid waste and recyclables are taken to the Rhode Island Resource Recovery Corporation (RIRRC) facility in Johnston, Rhode Island.

According to RIRRC, in 2013, Narragansett recycled 36.9% of its trash and meets the state recycling rate goal of 35%. This is calculated by dividing the total tons of bin recyclables plus yard debris, clothing and scrap metals by the total of these tons plus the tons of trash delivered to the landfill. In addition to this, the state mandates that municipalities also meet the 50% diversion rate, which expands to include other materials such as tires, mattresses, clean wood, clothing, motor oil, filters, etc., which are diverted for reuse or recycling. In 2013, Narragansett did not meet this goal. Its overall diversion rate was only 39.5%.

Because residents of both South Kingstown and Narragansett use the same transfer station, and residency is not recorded when trash and recyclables are dropped off, an assumed percentage of the total recycling and diversion rates for the facility is applicable to Narragansett. This percentage may not accurately reflect resident usage of the facility.

In June 2010, the Town Council adopted a Solid Waste Ordinance which outlines the steps necessary for the Town to implement a local recycling program for residential properties. In 2012, the Town Council approved the implementation of a town-wide residential recycling program, which is scheduled to begin January 2013. The Department of Public Works will coordinate the new Residential Recycling Program.

**Parks and Recreation – Indoor Facilities**

The Parks and Recreation Department manages programming and maintains the grounds and facilities
of the Town’s indoor and outdoor recreation facilities, including the Town Beach, playgrounds, and ballfields. The Department also oversees the rentals at the North Beach Clubhouse, Casino Park, Kinney Bungalow, and The Towers. Discussion of the outdoor facilities and programming are provided in “Open Space and Outdoor Recreation” of this Baseline Report.

There is a need for indoor recreational facilities in Narragansett. The Narragansett Community Center is the Town’s only public indoor recreation facility. It is located adjacent to Narragansett Elementary School and Sprague Park and contains meeting rooms, craft rooms, classrooms, exercise fitness room, computer room, kitchen, and other rooms. The center is typically used during weekdays as a senior center (with an on-site senior citizens coordinator) and on afternoons, evenings, and weekends as a meeting place for a broad range of youth athletic leagues, boy and girl scouts, and other civic organizations. The facility was built in 1977.

The South County YMCA in South Kingstown, which requires membership, is the only other indoor recreational space.

Engineering

The Engineering Department through Engineering, Water, and Wastewater Divisions, oversees water and wastewater utilities. It also acts as project manager for capital improvement projects that are constructed by the Town associated with water infrastructure, wastewater infrastructure, roadways, stormwater facilities, and Town-owned buildings, and for special Town projects (such as Superfund sites, antenna site leases, etc.).

Water Utilities

The Town of Narragansett, through the Water Division owns and operates a water distribution system that consists of over 70 miles of water mains, hydrants, meters, and appurtenances as well as:

- 500,000 gallon standpipe at Fire Station 2, North End
- 750,000 gallon water storage tank, Point Judith Road
- 750,000 gallon water storage tank, Kinney Avenue
- Point Judith Road booster station
- Three chlorine injection treatment stations (under construction in 2012)

The Town does not operate independent ground or surface water sources; therefore, it purchases wholesale water from the Town of North Kingstown (North End) and Suez Water Company (North End and South End). There are approximately 5,200 customers in three main areas, North End, South End, and Jerusalem, which are shown on Map 7. The Jerusalem service area, located adjacent to the South End, was interconnected by link to Galilee in 2001 by directional drilling and installation of an 8-inch line. Although both the North End and South End service areas remain completely separate, they are connected indirectly by means of the Suez Water Company distribution system, which has the ability to furnish water to both areas.

In June 2012, the Town completed an update to its Water Supply System Management Plan (WSSMP). A copy of the Executive Summary is found in Appendix C. According to the WSSMP, customer accounts consist of 5,037 residential connections, 104 commercial connections, 10 industrial connections and 41 governmental connections. The Town provides water to 63% of its residents and businesses in
Narragansett. Within the water service area, there are 11 private wells in use that could be switched to public service and added to the current volume served. Current average day customer demand is 0.758 million gallons per day (MGD).

**Future Water Utility Needs**

Water purchased from the Town of North Kingstown is sourced from the Hunt/Annaquatucket/Pettaquamscutt Aquifer and Suez Water Company is sourced from the Chipuxet Aquifer. According to the Rhode Island Water Resources Board, both aquifers are stressed and during peak water demands exceed state resource protection goals. Under projected water use, it is expected that the average day demand will be equal to 0.771 MGD. For the 20-year planning period, it is expected that the demand will be 0.787 MGD. These projections are based primarily on population projections and do not account for significant water savings potentially realized through demand management techniques, and the Town actively implements water conservation strategies. The projections do, however, consider non-account water at the current rate of 15%.

It would appear that the Narragansett water system supplies are adequate to meet existing and future demands for the 20-year planning period. The Water Division employs an annual capital improvement program which addresses system improvement and replacement and rehabilitation projects as needed.

**Wastewater Utilities**

The Narragansett Facilities Plan for Wastewater Management was completed and approved by the RIDEM in 2007. The Town is serviced by two wastewater treatment facilities. Portions of the northern end of town and the Pier area are serviced at the Westmoreland Treatment Plant (or South Kingstown Regional Wastewater Treatment Facility) and the Scarborough Treatment Plant services areas in the south end, including Galilee. All other areas have onsite wastewater treatment systems (OWTS).

**Treatment Plants**

The Westmoreland Treatment Plant, constructed in 1974 and subsequently expanded in 1992, is a shared facility with the Town of South Kingstown, which also operates the plant, and URI. The three entities jointly finance improvements and upgrades.

Narragansett underestimated how much capacity it might need when the facility was first constructed and purchased additional capacity as part of the 1992 expansion. It then began leasing unused flow capacity from URI in 1995. By 1998, sewage flows from Narragansett exceeded the authorized amounts and in 1999 the Town restricted further sewer extensions in the service area. Table 27 shows the allocation of the regional facility’s 5.0 million gallons per day (MGD) capacity.

**Table 27. Current Flow Distribution, Westmoreland Treatment Plant**

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>South Kingstown</td>
<td>1.69</td>
<td>41.0%</td>
<td>0.435</td>
<td>0.00</td>
<td>2.13</td>
<td>42.6%</td>
</tr>
<tr>
<td>Narragansett</td>
<td>0.78</td>
<td>19.0%</td>
<td>0.435</td>
<td>0.20</td>
<td>1.42</td>
<td>28.4%</td>
</tr>
</tbody>
</table>

11 [http://www.wrb.state.ri.us/documents/Chipuxet_specific%20watershed.pdf](http://www.wrb.state.ri.us/documents/Chipuxet_specific%20watershed.pdf)
In an effort to manage the overall sewer flows to the regional facility, the Town has been investigating the impacts of inflow (unauthorized connections) and infiltration (unwanted groundwater or surface water), referred to as “I/I.” In the past five years, I/I improvements have allowed the Town to reduce its overall flow contributions to the facility. A 2008 Sewer Policy Amendment created a funding source for a program where I/I removal credits are “purchased” via new connection permit fees, and earmarked for future improvement projects. System improvements, including increased pumping capacity and the ongoing program to remove I/I have now allowed the town to reduce the amount of treatment capacity being leased from URI. As of July 2012, it has gone from 0.40 MGD to 0.20 MGD.

The Scarborough Treatment Facility located off of Ocean Road adjacent to Scarborough State Beach meets the current and projected flows with its capacity of 1.4 MGD. Several improvements to the facility have been made to ensure that the system runs efficiently and meets water quality standards. Expansions to service residences of Great Island, Harbour Island, the Baltimore Avenue area, and Alexander Drive area are being evaluated.

Onsite Wastewater Treatment Systems (OWTS)
In 2002, the Town established a Wastewater Management District (WWMD) to ensure that OWTSs are operating properly, regularly inspected, and routinely maintained to prevent malfunctioning systems and to serve, where appropriate, as an alternative to municipal sewer systems. Ultimately, however, it is the responsibility of homeowners to inspect and maintain their OWTS to make sure it is properly functioning. The WWMD is town-wide and the ordinance allows the Town to enforce the proper maintenance of all existing and future OWTSs.

To assist homeowners, the Town offers low-interest loans to upgrade OWTSs. Through RIDEM’s State Revolving Fund, co-managed by the Rhode Island Clean Water Finance Agency and Office of Water Resources, the Town has secured $150,000 and completed eight systems at $15,000 each over the past four years.

Wastewater Utility Needs
New growth is anticipated in areas that are already serviced with wastewater infrastructure. Connections in these areas will be allowed for infill. The Scarborough Facility can accommodate additional growth and it is estimated to be approximately 300 new units. The Westmoreland Facility also has capacity, but the Town needs to negotiate with URI and the Town of South Kingstown to increase their share.

Stormwater Management
While the Public Works Department performs all installation and maintenance of existing stormwater infrastructure, the Division of Engineering is responsible for the overarching Narragansett Stormwater Management Program. The Division acts as the project manager for the design of new stormwater...
management system infrastructure.

The Town prepared the Narragansett Stormwater Management Program Plan (SWMPP) to meet the requirements of the United States Environmental Protection Agency (USEPA) as it implemented Phase II of its National Pollutant Discharge Elimination System (NPDES) stormwater regulations. Under Phase II, small municipal separate storm sewer systems (MS4s), which includes municipalities with urbanized areas that have a population less than 100,000 are required to receive a NPDES permit for discharging stormwater. In 2003, the permit was issued to the Town of Narragansett through RIDEM and its Rhode Island Pollutant Discharge Elimination System (RIPDES) Program.

The Division of Engineering manages the implementation of the SWMPP, which has the primary purpose to control stormwater runoff and improve water quality. The plan anticipates how the Town will comply with the six control measures required by USEPA:

- Public Education and Outreach
- Public Participation/Involvement
- Illicit Discharge Detection and Elimination
- Construction Site Runoff Control
- Post-Construction Runoff Control
- Good Housekeeping/Pollution Prevention

Each control measure outlines short, mid and long term actions the Town has and will take to control and minimize common stormwater pollutants, such as oil, grease, pesticides, and sediment from construction sites as well as trash and debris. Doing so will protect local waterways and ensure that they are suitable for recreational activities and wildlife habitat.

**Stormwater Management Needs**
The SWMPP has an implementation schedule for programs and actions to meet the objectives of the plan. Needed resources focus on staffing and volunteers. Funds are needed to support municipal staff activities, including producing education materials, mapping infrastructure, conducting monitoring and sampling and other requirements outlined in the SWMPP. Every year the Town prepares a review its accomplishments. This annual review should be used to gauge future stormwater management needs.

**Environmental Remediation**
The Town is named a Potentially Responsible Party (PRP) at two superfund sites. The Comprehensive Environmental Response, Compensation, and Liability Act (CERLCA) assigns liability to parties responsible, in whole or in part, for the presence of contamination on a property. As a PRP, the Town is responsible for contributing to the contamination clean-up efforts.

**Rose Hill Regional Landfill**
Rose Hill was previously operated by the towns of South Kingstown and Narragansett. In September 2002, the USEPA, RIDEM, and the towns of Narragansett and South Kingstown entered into a Final Consent Decree for remediation of Rose Hill. Since then, the site has been capped and long-term groundwater and air monitoring has started to determine the effectiveness of the cap and what, if any, additional remediation actions may be necessary in the future.

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12 [http://www.epa.gov/oecaerth/cleanup/superfund/liability.html](http://www.epa.gov/oecaerth/cleanup/superfund/liability.html)
The current estimated cost of completing the clean-up of Rose Hill is approximately $21,600,000. The Town’s share of this obligation is estimated to be $4,767,000. The Town has paid $2,000,000 to the federal government to settle all past liabilities associated with Rose Hill and approximately $505,000 for its share of natural resource damages through June 30, 2011. The $2,000,000 was funded through a 20-year general obligation bond sold in September 2002 with interest at 1.18%. The outstanding balance at June 30, 2011 is $1,331,625.

The Final Consent Decree also requires reimbursement to the State of 30% of the costs associated with remediation of this landfill and ongoing operation and maintenance costs. These costs are currently estimated at $3,586,000 and will be shared equally by the two towns. Narragansett’s remaining share of the estimated cost of $2,030,000, which includes an estimated $277,000 for continued monitoring and site maintenance, will be paid to the State over a 27-year period which began in 2011. Accordingly, approximately $2,030,000 was reported as accrued claims and judgments in the 2011 government-wide financial statements.

**West Kingston/URI Disposal Area Landfills**

The West Kingston/URI Disposal Area Landfills, also known as the Plains Road Landfill (Plains Road), was added to the Superfund list in 1992. URI and the towns of Narragansett and South Kingstown have agreed to participate in the remediation of the site under state landfill closure regulations. Project costs paid to date total $7,072,693, for which the Town was obligated to pay $1,766,124. Through June 30, 2011, the Town has paid approximately $1,476,000 of this amount. An additional $290,000 for operation and maintenance costs will be paid over the next 27 years. The Town paid $7,019 in fiscal year 2011 towards these costs.
ENERGY

There are many reasons why a community should think about the energy it uses. Globally, as the world’s population grows and expands, the increased demand for energy resources, particularly fossil fuels like oil, natural gas, and coal, will impact availability, delivery, and costs, posing a threat to not only our nation’s economic competitiveness, but its security as well. Also part of the equation is how we consume energy and its impact the natural environment, particularly air quality. As a result, there is national momentum to reduce our dependency on fossil fuels and move toward energy efficiency and cleaner energy sources.

At the local level, municipalities are recognizing the importance of energy consumption and its impact on the economic, social, and environmental aspects of the local community. Energy is consumed when we drive our cars, turn on the heat, mow the lawn, or buy something that was produced thousands of miles away. Energy efficiency and planning for energy can range from addressing municipal facilities and operations to developing local renewable energy sources such as wind, solar, and water (hydro). It can also encompass the community at large and the energy consumption habits of residents and businesses. Addressing energy through local policy can bring many benefits:

- Cost savings: Increased energy efficiency and energy conservation in municipal facilities and operations can save communities money on fuel and utility costs. Providing residents and businesses with opportunities to make homes and buildings more energy efficient can put money in their pockets too.
- Increased revenues: Considering renewable energy facilities in town may potentially bring in additional revenue to offset municipal property taxes, as well as offset energy costs.
- Cleaner environment: Reducing energy consumption and using renewable energy reduces greenhouse gas emissions and improves air quality.
- Healthier community: Encouraging residents to conserve energy can get them out of their cars and take public transportation, or even ride a bike or walk, promoting healthier lifestyles.
- More efficient development: Asking residents to drive less means development needs to be walkable and bikeable. Compact, village scale development reduces travel times, increases transportation options, and has lower operating costs for businesses.
- Regional collaboration: Energy usage and conservation transcends municipal borders. Partnering with neighboring towns maximizes resources and showcases a regional commitment to meeting the energy challenge together.\(^\text{13}\)

The first step most communities take when starting to plan for energy is evaluating municipal facilities and operations. Local governments have direct control over these activities and can take appropriate actions. The Town of Narragansett has already taken steps in this direction.

Municipal Operations and Facilities

Through the Washington County Regional Planning Council, the Town contracted with an energy services company (ESCO) to audit municipal buildings, recommend energy saving improvements, assist with financing, handle the contracting, and then guarantee savings on energy costs. From May 2011 through February 2012, an audit was performed by Johnson Controls, Inc. (JCI) with the intent to find ways to

\(^{13}\text{Vermont Natural Resources Council and Vermont League of Cities and Towns. April 2011. Energy Planning and Implementation Guidebook for Vermont Communities.}\)
reduce energy costs, provide capital upgrades, increase the energy efficiency and reliability of the town’s mechanical and electrical systems, and to maintain or improve occupant comfort and well-being. JCI submitted a report to the town in July 2012, and the following are major findings listed in that document:

There are many opportunities to reduce energy costs within the town buildings. By implementing the recommendations outlined in this study, the Town could reduce energy by 16.24% (15.40% electric and 16.75% thermal) based on the average utility data established as the baseline period.

Equipment Conditions Improvement: Some of the mechanical and electrical systems are in poor condition, but are operated well, given current funding and staffing level constraints. Town buildings have a mixture of programmable and nonprogrammable (electric dial gage) thermostats.

Heating System Condition: The existing boilers/furnaces in the buildings that are near the end of their useful life have been included for boiler/furnace replacement, particularly Town Hall, the Community/Senior Center, both wastewater treatment plants, North End Fire Station, South End Fire Station, and Parks Maintenance building.

**Community Energy Usage**

There has been no formal evaluation of energy use by Narragansett residents and businesses; however, there are existing data sources that can be used to give a perspective about current energy consumption. Primarily, residents use the most energy to heat their homes and for transportation. Table 28 lists how occupied homes in Narragansett were heated in 2000 and 2010. Nearly 70% used fossil fuels: natural gas or oil. From 2000 to 2010, there was an increase in the use of utility gas and electricity and a decrease in fuel oil. Over the past decade the cost of home heating oil has become very expensive and many homeowners have switched to cheaper options, such as natural gas. There were no homes that used solar energy and less than 1% that used other types of fuels.

**Table 28. Home Heating Fuel for Occupied Housing Units in Narragansett, 2000 and 2010**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Utility gas</td>
<td>29.6%</td>
<td>30.2%</td>
</tr>
<tr>
<td>Bottled, tank, or LP gas</td>
<td>8.4%</td>
<td>9.7%</td>
</tr>
<tr>
<td>Electricity</td>
<td>17.8%</td>
<td>18.8%</td>
</tr>
<tr>
<td>Fuel oil, kerosene, etc.</td>
<td>41.2%</td>
<td>39.5%</td>
</tr>
<tr>
<td>Coal or coke</td>
<td>0.1%</td>
<td>0.0%</td>
</tr>
<tr>
<td>Wood</td>
<td>2.6%</td>
<td>1.2%</td>
</tr>
<tr>
<td>Solar energy</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>Other fuel</td>
<td>0.3%</td>
<td>0.7%</td>
</tr>
</tbody>
</table>

*Source: 2000 U.S. Census and American Community Survey 2010 5-Year Estimates*

Overall, older homes tend to be less energy efficient than newer homes. In 2010, almost half (47%) of the homes in Narragansett were built before 1970 (Table 29). About 16% was built before 1940. Local weatherization programs assist low-income individuals and families to reduce energy consumption and increase energy efficiencies in their homes. These types of programs are available to Narragansett.
income-eligible residents through South County Community Action. The program includes an energy audit to determine need for insulation, weather-stripping, air sealing, and wrap pipes. An Appliance Management Program also examines electrical use in the home (computerized audit) and replaces light bulbs, if they are determined to be inefficient.

**Table 29. Age of Narragansett Housing Stock, 2010**

<table>
<thead>
<tr>
<th>Year structure was built</th>
<th>Percentage of housing units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1939 or earlier</td>
<td>11.0%</td>
</tr>
<tr>
<td>1940 to 1949</td>
<td>5.1%</td>
</tr>
<tr>
<td>1950 to 1959</td>
<td>15.5%</td>
</tr>
<tr>
<td>1960 to 1969</td>
<td>15.8%</td>
</tr>
<tr>
<td>1970 to 1979</td>
<td>16.4%</td>
</tr>
<tr>
<td>1980 to 1989</td>
<td>17.9%</td>
</tr>
<tr>
<td>1990 to 1999</td>
<td>9.3%</td>
</tr>
<tr>
<td>2000 to 2004</td>
<td>7.1%</td>
</tr>
<tr>
<td>2005 or later</td>
<td>1.9%</td>
</tr>
</tbody>
</table>

*Source: American Community Survey 2010 5-Year Estimates*

Transportation energy use combines three basic factors: the mode of transportation, the fuel efficiency associated with transportation, and the total distance traveled. The automobile is one of the most inefficient modes of transportation, because it usually requires fossil fuel, and also tends to have high total distance traveled per capita, because it can only transport a small number of people. Buses and trains rank higher in efficiency because they can carry more people, resulting in less total miles traveled per capita. Bicycle and pedestrian modes of transportation are thought of as the most efficient forms of transportation, because they do not require fossil fuel products; however these modes are limited as they are typically only used for short distances.

Map 8 shows the relationship between areas of higher residential density and places of employment or commerce (commercial and industrial areas). People that live in these areas generally have access to shopping and services, but walking and biking conditions connections don’t always exist or are in need of improvement (see Transportation and Circulation). Further, the commercial establishments might not meet all the demands of the neighborhood, such as a grocery store, and residents still must travel by car to other parts of town. Bus service (RIPTA) is also available along Boston Neck Road and Point Judith Avenue.

Most Narragansett residents commute to work by car alone (Table 30) and since 2000, this percentage has increased and fewer are carpooling (down 2.3%), but commuters are traveling two lesser miles to reach their place of employment.
Map 8. Areas of High Density Residential and Commercial/Industrial Areas
**Table 30. Commute to Work, 2000 and 2010**

<table>
<thead>
<tr>
<th>Transportation Option</th>
<th>Percentage 2000</th>
<th>Percentage 2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Car, truck, or van -- drove alone</td>
<td>84.1%</td>
<td>85.3%</td>
</tr>
<tr>
<td>Car, truck, or van -- carpoled</td>
<td>8.8%</td>
<td>6.5%</td>
</tr>
<tr>
<td>Public transportation (excluding taxicab)</td>
<td>1.6%</td>
<td>1.4%</td>
</tr>
<tr>
<td>Walking</td>
<td>1.3%</td>
<td>1.9%</td>
</tr>
<tr>
<td>Other means</td>
<td>1.0%</td>
<td>0.6%</td>
</tr>
<tr>
<td>Worked at home</td>
<td>3.2%</td>
<td>4.3%</td>
</tr>
<tr>
<td>Mean travel time to work (minutes)</td>
<td>26.5</td>
<td>24.5</td>
</tr>
</tbody>
</table>

Source: 2000 U.S. Census and American Community Survey 2010 5-Year Estimates

There is also a relationship between population density and the location of goods and services and places of employment. Having goods and services closer to where people live allows them to walk or bike rather than drive, resulting in lower distance traveled. As shown in Map 8, high and medium density development (less than one acre) is dispersed throughout the town. As discussed under land uses, small, neighborhood businesses are available for daily needs. Larger shopping centers, Salt Pond Plaza (location of the town’s only supermarket) and Mariner Square, are at the corners of Woodruff Avenue, South Pier Road, and Point Judith Road, which is a four-lane intersection with one (east/west) to two (north/south) left-turn lanes. Walking and biking in this area is challenging. RIPTA does service this area.
NATURAL HAZARDS

Natural hazards are events such as severe storms like hurricanes, Nor’easters, winter storms and blizzards, flooding, drought, and sea level rise. These events can have adverse impacts on people, property, and critical facilities. Narragansett as a coastal community is vulnerable to these events, and some areas of town are more so than others. Natural hazard mitigation refers to policies and actions a municipality undertakes to reduce the adverse impacts of natural events. In 2011, the Town updated the Narragansett Hazard Mitigation Plan. A Hazard Mitigation Planning Committee comprised of the Community Development, Public Works, Emergency Management, Engineering, Fire, and Police departments led the effort. The update process required the committee to review relevant hazards that Narragansett was vulnerable to and evaluate the risks associated with those hazards. Data and pertinent information were updated, including mitigation goals and objectives, as well as strategies to reduce the impacts from these types of events. The Hazard Mitigation Plan describes in detail the natural hazards the Town is most vulnerable to. A summary is provided here.

Severe Storms

Rhode Island is most vulnerable to severe storms, which include Nor’easters, winter storms, ice storms, and severe thunderstorms. These events bring flooding and high winds. The trajectory of these severe storms determines the local effect. Those with a southern origin bring heavy rain and those coming from the north bring cold air and the potential for snow and ice (Nor’easters). Any winter storm, regardless of its trajectory, can be accompanied by high winds. Storms with sustained winds above 30 miles per hour (mph) generally cause low impact, widespread damage, while winds above 50 mph are powerful enough to cause significant damage.

Climate change predictions indicate that storms in the Northeast are likely to occur more frequently and be more severe. For the Northeast region overall, where winter precipitation mainly falls as rain rather than snow, that is likely to continue.14

In Narragansett, severe storms are not common. Snow, ice, rain, and wind do occur but do not typically rise to the level of severe. Washington County has reportedly experienced at least one serious windstorm per calendar year. If one were to occur, the entire Town of Narragansett would most likely be affected.

Hurricanes

Hurricanes begin as tropical depressions in their formative stages. If the sustained velocity of the winds exceeds 39 mph it becomes a tropical storm. Once the tropical depression becomes a tropical storm it is considered a threat and given a name. When the winds exceed 74 mph, the system then becomes a hurricane. Most tropical depressions begin off of the coast of Africa near the Cape Verde Islands or near the Caribbean as the sea surface temperature is above 81° Fahrenheit in the summer months. Tropical storms and hurricanes then will travel a path that may take them up the east coast, potentially impacting Rhode Island and Narragansett.

While there is a low probability that the Town will be significantly impacted by a hurricane in the next five years, one direct hit on the State of Rhode Island could be catastrophic for all cities and towns. High winds and storm surges are primary concerns with hurricanes and tropical storms, and discussed below.

14 http://www.epa.gov/climatechange/impacts-adaptation/northeast.html
Higher density areas near the coastline and those with higher elevations would be more susceptible to wind damage during a hurricane. Coastal and low-lying areas would be greatly impacted by storm surges.

**Heat Waves**

A heat wave occurs when a system of high atmospheric pressure pulls air from upper levels of our atmosphere toward the ground, where it becomes compressed and increases in temperature.

This high concentration of pressure makes it difficult for other weather systems to move into the area, which is why a heat wave can last for several days or weeks. The longer the system stays in an area, the hotter the area becomes. The high-pressure inhibits winds, making them faint to nonexistent. Because the high-pressure system also prevents clouds from entering the region, sunlight can become punishing, heating up the system even more. When a combination of all of these factors come together to create temperatures that hover 10 degrees higher than the average high temperature for a region, a heat wave occurs. When heat waves occur, the entire town is vulnerable, but certain populations feel the greatest impact, such as the very young, those with health conditions, and the elderly.

**Flooding**

Groundwater seepage, stormwater runoff, and coastal storms (storm surges) cause most of the flooding in Narragansett. In recent years, the Town has experienced minor flooding almost annually. While such flooding may occur infrequently, groundwater seepage and stormwater drainage can be a consistent problem in rainy months. Pettaquamscutt Terrace, portions of the center of town, and Caswell Street all have reoccurring flood issues. Areas within the floodplain and velocity zones, as designated by the Federal Emergency Management Agency, are most vulnerable to the impacts of flooding (See Map 13 in the discussion of natural resources).

During the month of March in 2010, the state experienced record breaking rainfall and hundreds of businesses and thousands of residents were impacted. In Narragansett, Crooked Brook flooded, causing Kingstown Road to be impassable for an entire day. Sprague Pond Dam outfall culvert failed and there were approximately 300 basements that flooded simply due to high groundwater.

**Tornados**

The National Weather Service defines a tornado as a “violently rotating column of air extending from a thunderstorm to the ground.” Tornados are the most violent of all atmospheric storms and are capable of tremendous destruction. Wind speeds can exceed 250 miles per hour, and damage paths can be more than one mile wide and 50 miles long. The frequency of tornados occurring in Rhode Island is low; it is ranked 49th out of the 50 states for occurrence of tornados.

**Drought**

A drought can be defined as a continuous period of time in which rainfall is significantly below the norm for a particular area. Therefore, droughts are not localized to one community, such as Narragansett, but rather become regional concerns. Droughts could be as short as one summer, or as long as several years. According to the Rhode Island Water Resources Board, although Rhode Island is often considered a “water-rich” state, it can experience extended periods of dry weather, from single season events to multi-year events, such the long-term drought of the mid-1960s. When they do occur, they can reduce
potable water supplies, provide inadequate stream flow volumes to support fish, increase the threat of wildfires, and pose a threat to vegetation that relies on natural precipitation.

Earthquakes
An earthquake is caused by a sudden displacement within the earth. Displacement at relatively shallow depths may be caused by volcanic eruptions, or even by avalanches. The resultant earthquakes are usually light and do little damage. Strong and destructive earthquakes usually result from the rupturing or breaking of great masses of rocks far beneath the surface of the earth. The ultimate cause of these deep ruptures has not been established. All earthquakes produce both vertical and horizontal ground shaking. This ground movement begins at the focus or hypocenter, deep in the earth, and spreads in all directions. The motion we feel is the result of several kinds of seismic vibrations.

Should an earthquake occur, the entire town would be impacted; however, it is estimated that they occur in Narragansett once every 30 years.

Sea Level Rise
Climate is defined as the long-term observed weather average for a geographic region. Fluctuations in climate, referred to as climate change, have been observed, related to both natural and man-made activities. The long-term climate change trend has been noted due to increased temperatures, extremes between heavy precipitation and periods of drought, and rising sea level. Sea level rise refers to the change in mean high water over time in response to global climate and local tectonic change. The impacts of projected increases in rain and in the number of severe storm events with storm surges, coupled with rising sea levels, may lead to more frequent and damaging flood events, particularly in coastal communities like Narragansett.

CRMC in partnership with URI Ocean Engineering, Rhode Island Sea Grant Program and the URI Environmental Data Center have develop GIS web-based maps call STORMTOOLS. These multiple sea level rise scenarios and storm surge, along with historical storm impacts, help Rhode Island coastal communities assess their vulnerability and plan for sea level rise and storm surge. Map 9 was creating using this tool. It shows four sea level rise scenarios plus the impacts associated with the Hurricane of 1938, considered the most devastating storm to hit Rhode Island. In addition, in 2016, CRMC adopted within its coastal program upper sea level rise curves based on NOAA data as calculated by the U.S. Army Corps of Engineers Sea Level Change Curve Calculator with a possible seven feet above 1990 levels by 2100.

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15 Rhode Island Coastal Resources Management Program, Section 145: Climate Change and Sea Level Rise
16 www.beachsamp.org/stormtools/
17 www.corpsclimate.us/ccacescurves.cfm.
Map 9. Areas Vulnerable to Sea Level Rise
Areas all along Narragansett’s coastline are vulnerable to sea level rise. Specifically:

- Town Beach and Pier area.
- Low-lying areas along Narrow River and Pettaquamscutt Cove, dominated by residential uses, protected open space and recreational areas.
- Low-lying Sand Hill Cove residential neighborhoods
- Jerusalem, which has residential and commercial uses.
- Low-lying areas adjacent to Point Judith Pond, dominated by protected open space, recreational areas and residences.
- Low-lying areas of Harbor Island and Great Island, dominated by protected open space and residences.
- Little Beach in Bonnet Shores.
- Low-lying residential neighborhoods in the Scarborough area.

Sea level rise will also have future impacts on coastal wetlands. Additional resources from CRMC and its partners include Sea Level Affecting Marshes Model (SLAMM) Maps for the coastal wetlands of all 21 Rhode Island coastal communities. The purpose of these SLAMM maps is to show how coastal wetlands will likely transition and migrate onto adjacent upland areas under projected sea level rise scenarios of 1, 3, and 5 feet in the coming decades. According to CRMC, it is projected that Narragansett may see losses of 167 to 212 acres of coastal wetlands in the future with 3 and 5 feet of sea level rise, respectively.

### Beach Replenishment

The beach and dunes of Narragansett Beach serve a number of important natural functions, including dissipating incoming wave energy to minimizing storm damage and acting as flood control for inland areas. They also provide wildlife habitat for shorebirds. Equally important, Narragansett Beach offers recreational and economic benefits to the Town.

Natural coastal processes such as waves, tides, currents, storm surges, and sea level rise influence the deposition of sand on Narragansett Beach and its erosion. Waves and tides result in short-term effects while storm surges and sea level rise, as discussed earlier, can have severe long-term impacts. Narragansett Beach is also influenced by seasonal variation. In the fall and winter months, waves are larger and stronger, and storms are more frequent, carrying sand to offshore sandbars. In the spring and summer, waves are small and the sand slowly returns to the beach, albeit not in the amount that was carried off in the earlier seasons.

To maintain this important resource, the Town routinely replenishes the beach with an ongoing Maintenance Assessment with CRMC. The current process is to truck in sand from a local quarry at the start of each summer season, typically about 300 cubic yards (20 to 30 truck loads). If a major storm hits the area, more material may be required.

In 2011, Woods Hole Group prepared a Beach Replenishment Study to evaluate existing conditions and recommend long-term beach replenishment alternatives. According to the Woods Hole Group, a study from the U.S. Geological Survey (USGS) evaluated the Narragansett shoreline between 1869 and 2003.

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18 [http://www.crmc.ri.gov/maps/maps_slamm.html](http://www.crmc.ri.gov/maps/maps_slamm.html)
and found that over the 134-year period, the average erosion rate of Narragansett Beach ranged from -0.56 to -0.95 feet per year. Historic, long-term coastal erosion rate mapping developed by CRMC in partnership with URI\textsuperscript{20} show erosion rates from 1939 to 2004 at Narragansett Beach between -0.3 to -1.2 feet per year. Both studies demonstrate long-term erosion of the beach. Additionally, as part of CRMC’s Shoreline Change Special Area Management Plan, maps are being developed that show future accelerated shoreline erosion.

The Woods Hole Group Study provided a variety of alternatives and potential sediment sources, which included:

- Upland – Local sand and gravel mining facilities that could supply sand via trucking operations,
- Narrow River – Sand from the flood tidal delta and Sprague Bridge areas of the Narrow River,
- Offshore – Sand from offshore areas, and
- Navigation Channels – Sand dredged from nearby navigation/construction projects.

Construction methods proposed were trucking material, mechanical dredging, and hydraulic dredging. The Town will further evaluate to determine the most feasible option to implement.

\textsuperscript{20} www.crmc.ri.gov/maps/maps_shorechange.html.
TRANSPORTATION AND CIRCULATION

The objective of the local transportation system is to provide access to employment, shopping, recreational, and community facilities in a safe, efficient and sustainable manner. The transportation system supports other facets of life in the Town, including economic development, quality of life, social equity, and public and environmental health.

Narragansett’s natural geography and historic development patterns have influenced the layout of the present circulation system, depicted in Map 9. Beginning in the eighteenth century, settlements at South Ferry and Narragansett Pier originated as landings for the export of locally grown agricultural products. Boston Neck Road (U.S. Route 1A) was one of Narragansett’s first major roads and it provided the transportation linkage between these two settlements. This road and its adjoining local roads formed the beginnings of Narragansett’s circulation system.

As an important transportation link to Newport, South Ferry was Narragansett’s principal settlement through the eighteenth and into the nineteenth century.

A transformation in Narragansett’s development took place in the mid-nineteenth century when Narragansett’s seaside location began to attract tourists. The Narragansett Pier Railroad which linked the Kingston Station with Narragansett Pier was constructed in 1876. This transportation facility provided direct rail access to Narragansett Pier and encouraged the growth of tourism. In 1882, Ocean Road was extended from South Pier to Point Judith, providing access to the coastline south of the Narragansett Pier village.

Narragansett Pier changed significantly with the introduction of the automobile early in the 20th century. Once a resort where out-of-state residents came by train or steamer for vacations, it gradually became a day-trip destination for Rhode Island residents. Interurban streetcar service, which began service in 1898 in Narragansett and served more than 700,000 annual passengers per year at its peak, ceased operations in 1922. Route 1 was widened and improved and other new roads were built to accommodate the new popular pastime of automobile touring. Starting in the early 1960s, Narragansett became part of the suburban development surrounding the Providence area. As the use of automobiles increased, the roads improved and travel time was reduced thereby making it easier to live in Narragansett and work in Providence. With the easier commute, Narragansett began to attract more year-round residents.

Narragansett’s shoreline remains one of the Town’s most important assets and this regional amenity has also generated considerable traffic. The increased turning conflicts associated with the commercial development impede normal through traffic flow. Roadway improvements can bring temporary relief to traffic congestion; however, improvements also frequently increase the desirability and accessibility of adjacent property, inducing more traffic in the long run.

Existing Highway Systems

Functional Classification
Roads and highways are grouped into classes or systems that are based upon the road’s intended character of service. The five major classifications of roads are Freeway/Expressway, Principal Arterial, Minor Arterial, Collector, and Local. The method of classification assumes that all roads serve two basic functions: direct access to property; and travel mobility. Distinctions are made as to the varying degrees
that a road accomplishes these basic functions. For example, local roads provide a greater proportion of direct property access, while collectors and arterials provide a greater proportion of travel mobility.

Another important factor in assigning functional classification is the type of area that the road will serve. There are two types of service areas: urban areas and rural areas. The Federal Highway Administration defines urban areas as those areas with populations greater than 5,000 persons and above. Rural areas are defined as the areas outside the boundaries of urban areas.

Map 10 shows the functional classification of roads and highways in Narragansett according to the Rhode Island Statewide Planning Program’s Highway Functional Classification System for the State of Rhode Island, 2005-2015. Table 31 details the specific road segments and their classifications in Narragansett. There are 25.17 miles of roads under state jurisdiction in Narragansett, including the principal arterials, minor arterials, and major collectors in both the small urban and rural categories. Jurisdiction of the Town’s roads includes approximately 121.6 miles of minor arterial, collector, and local roads.


<table>
<thead>
<tr>
<th>Route</th>
<th>Segment Name</th>
<th>Miles</th>
<th>State or Local</th>
<th>Segment Name</th>
<th>Miles</th>
<th>State or Local</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freeways &amp; Expressways (Urban)</td>
<td>Collector (Urban)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>State Highway 1A</td>
<td>0.7</td>
<td>State</td>
<td>Bonnet Point Road</td>
<td>0.88</td>
<td>Local</td>
</tr>
<tr>
<td></td>
<td><strong>Sum</strong></td>
<td>0.7</td>
<td></td>
<td>Bonnet Shores Road</td>
<td>0.91</td>
<td>Local</td>
</tr>
<tr>
<td>Principal Arterial (Urban)</td>
<td>Boon Street</td>
<td>0.25</td>
<td>Local</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beach Street</td>
<td>0.2</td>
<td>State</td>
<td>Collector John Gardner Road</td>
<td>0.93</td>
<td>Local</td>
<td></td>
</tr>
<tr>
<td>108</td>
<td>Kingstown Road</td>
<td>0.1</td>
<td>State</td>
<td>Conch Road</td>
<td>0.5</td>
<td>Local</td>
</tr>
<tr>
<td>108</td>
<td>Old Point Judith Road</td>
<td>1.63</td>
<td>State</td>
<td>Exchange Place</td>
<td>0.08</td>
<td>Local</td>
</tr>
<tr>
<td>108</td>
<td>Point Judith Road</td>
<td>2.92</td>
<td>State</td>
<td>Franks Neck Road</td>
<td>0.04</td>
<td>Local</td>
</tr>
<tr>
<td>1A</td>
<td>Beach Street</td>
<td>0.99</td>
<td>State</td>
<td>Franks Neck Road</td>
<td>0.22</td>
<td>Local</td>
</tr>
<tr>
<td>1A</td>
<td>Boston Neck Road</td>
<td>4.94</td>
<td>State</td>
<td>Gibson Avenue</td>
<td>0.25</td>
<td>Local</td>
</tr>
<tr>
<td>1A</td>
<td>Kingstown Road</td>
<td>0.85</td>
<td>State</td>
<td>Great Island Road</td>
<td>0.35</td>
<td>State</td>
</tr>
<tr>
<td>1A</td>
<td>Narragansett Avenue</td>
<td>0.53</td>
<td>State</td>
<td>Harbor Road</td>
<td>0.05</td>
<td>Local</td>
</tr>
<tr>
<td></td>
<td><strong>Sum</strong></td>
<td><strong>12.16</strong></td>
<td></td>
<td>Kingstown Road</td>
<td>0.55</td>
<td>Local</td>
</tr>
<tr>
<td>Minor Arterial (Urban)</td>
<td>Knowles Way</td>
<td>0.42</td>
<td>State</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bridgetown Road</td>
<td>0.65</td>
<td>State</td>
<td>Marine Drive</td>
<td>0.1</td>
<td>Local</td>
<td></td>
</tr>
<tr>
<td>Burnside Avenue</td>
<td>0.64</td>
<td>State</td>
<td>Mettataxet Road</td>
<td>0.67</td>
<td>Local</td>
<td></td>
</tr>
<tr>
<td>Galilee Connector Road</td>
<td>0.34</td>
<td>State</td>
<td>Middlebridge Road</td>
<td>0.43</td>
<td>Local</td>
<td></td>
</tr>
<tr>
<td>Galilee Escape Road</td>
<td>1.17</td>
<td>State</td>
<td>Ocean Road</td>
<td>1.01</td>
<td>State</td>
<td></td>
</tr>
<tr>
<td>Great Island Road</td>
<td>0.36</td>
<td>State</td>
<td>Old Boston Neck Road</td>
<td>0.67</td>
<td>Local</td>
<td></td>
</tr>
<tr>
<td>Ocean Road</td>
<td>5.511</td>
<td>State</td>
<td>Ottawa Trail</td>
<td>0.21</td>
<td>Local</td>
<td></td>
</tr>
<tr>
<td>South Pier Road</td>
<td>1.44</td>
<td>Local</td>
<td>South Ferry Road</td>
<td>0.91</td>
<td>Local</td>
<td></td>
</tr>
<tr>
<td>Sand Hill Cove Road</td>
<td>1.39</td>
<td>State</td>
<td><strong>Sum</strong></td>
<td>9.46</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Succotash Road</td>
<td>0.47</td>
<td>State</td>
<td>Town Total</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Woodruff Avenue</td>
<td>0.48</td>
<td>Local</td>
<td><strong>Sum</strong></td>
<td>34.77</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source: RIDOT and RIGIS
Map 10. Transportation Network
The primary function of each type of road in Narragansett is as follows:

Freeway/Expressway- An expressway’s only function is to carry traffic and as a result expressways are designed specifically for high speed travel mobility. Since an expressway has controlled access, there are no at-grade intersections or parking. The road functions as a highly efficient carrier. The interstate highway provides the highest level of travel mobility and no direct property access. A 0.70 mile section of State Highway 1 is classified as freeway/expressway in Narragansett.

Arterial- The arterial street functions primarily to carry large volumes of traffic through the community. It is designed for trips of moderate length, slower speed and limited land access. The arterial provides access between the interstate and residential and commercial areas in the community. Such facilities may carry local bus routes and include connections to local collector roads. There are 17.67 miles of streets classified as principal arterial and 6.94 miles of streets classified as minor arterial in Narragansett.

Collector- The collector street functions primarily to conduct traffic from local residential roads to arterial roads. Land access is a secondary function of the collector street but access is generally less restricted on collectors than arterials. Collector streets pass through residential areas both collecting and distributing traffic from local streets. There are 9.46 miles of streets classified as collector in Narragansett.

Local- Local roads comprise the balance of streets in Narragansett. Local roads primarily provide direct access to property. The local roads also serve to provide low levels of travel mobility to and from the collectors and arterials. There are approximately 112 miles of municipally owned local roads in Narragansett.

The functional classification system is used to determine eligibility under the federal-aid system. The relationship between functional classification, federal funding category, and highway jurisdiction is shown in Figure 9. Several of the functional classifications, including rural minor collectors and rural and urban local roads, are not part of the federal-aid system.

Figure 9. Highway Functional Classification and Federal Aid Eligibility

Source: RI Statewide Planning Program
Traffic Volumes

The traffic volumes in Narragansett reflect the normal commuting activities of a suburban community. In addition, on many of the roads the traffic volumes are strongly influenced by seasonal summer beach traffic.

Table 32 provides traffic volumes on major roads in Narragansett for the year 2011. These traffic volumes were provided by the Rhode Island Department of Transportation (RIDOT) and represent automatic traffic volume counts. Roadways carrying the largest volume of traffic include Point Judith Road (Route 108), Boston Neck Road (U.S. Route 1A), and Woodruff Avenue.

**Table 32. Traffic Volumes on Selected Roadways in Narragansett**

<table>
<thead>
<tr>
<th>Road Segment</th>
<th>2011 ADT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Point Judith Road (north of Angell Road)</td>
<td>18,600</td>
</tr>
<tr>
<td>Boston Neck Road (between West Bay Drive and Anawan Drive)</td>
<td>18,100</td>
</tr>
<tr>
<td>Boston Neck Road (Castle Road)</td>
<td>18,000</td>
</tr>
<tr>
<td>Woodruff Avenue (between Salt Pond Rd and Robinson St)</td>
<td>15,500</td>
</tr>
<tr>
<td>South Pier Road (between Rt 108 and Lakewood Drive)</td>
<td>14,100</td>
</tr>
<tr>
<td>Sand Hill Cove (east of State Beach)</td>
<td>8,600</td>
</tr>
<tr>
<td>Point Judith Road (between Galilee Escape and Sand Hill Cove)</td>
<td>7,400</td>
</tr>
<tr>
<td>Ocean Road (between Burnside Avenue and Knowles Way)</td>
<td>6,000</td>
</tr>
<tr>
<td>Sand Hill Cove (east of Galilee Bypass)</td>
<td>3,600</td>
</tr>
<tr>
<td>Great Island Road</td>
<td>3,500</td>
</tr>
</tbody>
</table>

*Source: RIDOT*

Seasonal Traffic Volume

The Average Daily Traffic (ADT) is the actual volume of vehicles which were counted during the counting period. The Annual Average Daily Traffic (AADT) is the average volume of traffic using the road over entire year. For roadways with a large seasonal variation in traffic flow, the difference between ADT and AADT is quite large. For example, if a traffic count was taken in the summer months in Narragansett the ADT could be larger than the AADT because of its summer traffic flow. On the other hand, if a traffic count was taken during the winter months, the ADT would likely be smaller than the AADT.

The location of employment centers, shopping facilities, and recreational activities is important in identifying heavily traveled routes. Although Narragansett has a large volume of recreational traffic which causes seasonal variation, it also has a large volume of traffic generated from its residential areas. Since most of the residents of the Town work outside of town, there is a large commuting population. Also, the Town has major shopping centers such as the Salt Pond Shopping Center on Point Judith Road, which generates large volumes of traffic. It is therefore difficult to identify which roads are primarily influenced by recreational traffic and which roads have large volumes of traffic primarily as a result of local travel activities.

A traffic impact study conducted in July 2005 by RAB Professional Engineers, Inc. for a proposed commercial development, illustrates the large seasonal fluctuations in traffic volume on Point Judith...
Road. It was determined from the counting program that a large increase in traffic volumes, typically 20% to 30%, but sometimes greater than 40% during scheduled events and on weekends, occurs on Point Judith Road during the summer months. The increase during the summer months can vary on a daily basis due to weather or scheduled events by up to 10,000 vehicles per day.

Based on this study, it is estimated that summer weekday ADT of approximately 25,000 to 28,000 vehicles per day traverse Point Judith Road in the project area, compared to a total daily volume of between 17,000 and 20,000 vehicles during an off-season month. Traffic volumes tend to increase gradually over the course of the day, then peak during the late afternoon period when beachgoers heading home, coincide with shoppers in the commercial area and the daily commuting traffic. Traffic volumes increase for short periods ahead of scheduled ferry departures throughout the day.

Several roads are susceptible to cut-through traffic due to the linear configuration of the Town’s roadway network. Mumford Road between Kingstown Road (U.S. Route 1A) and Route 1 (Tower Hill Road) is one such road. Middlebridge Road also connects those roads, further north.

Traffic congestion is caused by vehicle demand that exceeds roadway capacity. Congestion can occur throughout Town, especially during summer months, peak travel periods, and coinciding with the ferry schedule. There are four primary focus areas that experience traffic congestion:

The northern segment of Route 108, beginning at the Town line and through the Dillon Rotary. Boston Neck Road (U.S. Route 1A) north of Narragansett Town Beach can become very congested especially due to with beach traffic. Specific intersections would include the signalized intersections of Boston Neck Road and Bonnet Shores Road and Bridgetown Road, which are approximately 4,000 feet apart.

Ocean Road in the vicinity of The Towers and seawall experiences traffic congestion and parking demand. The roadway is currently two-lanes with on-street parking and sidewalks on both sides.

Route 108 and Galilee Escape Road to and from the Village of Galilee experience congestion in conjunction with seasonal traffic.

Traffic Accidents
The five year summary of accident data for Narragansett and for the State was obtained from RIDOT. This data was used to identify accident problem areas and trends. The five year data were compiled from RIDOT’s Accident Location and Reporting System (ALRS). The ALRS is an accident reporting system in which accidents reported to the Registry of Motor Vehicles by the motor vehicle operator and/or the police are recorded and geographically identified. The data provide a reasonable representative sample of accident types and locations.

The ALRS data were used to identify intersections where the highest number of accidents occurred within the Town. Figure 10 shows the top ten intersections in the five year period from 2007 to 2011. Totals for the year 2007 are located at the bottom of the bar with totals for 2011 located in the top segment of the bar. Five intersections stand out as having the highest incidences:

- Route 108 (Point Judith Road) and Woodruff Avenue;
- Kingstown Road and Point Judith Road (Route 108);
- U.S. Route 1 and Woodruff Avenue;
• Boston Neck Road (U.S. Route 1A) and Bridgetown Road; and
• Point Judith Road (Route 108) and South Pier Road.

**Figure 10. Intersections with the Highest Number of Accidents (RIDOT)**

Accident information from the Narragansett Police Department for the period January 1, 2007 to December 31, 2011 was also utilized to identify the road segments with the highest number of accidents reported. Table 33 identifies the top ten road segments and the number of accidents reported.

**Scenic Road Designations**

There are no state-designated scenic roads within Narragansett. Boston Neck Road has been historically signed as “scenic” for most of its length within the Town for many years. It could be a candidate for formal designation by the state Scenic Roadways Board in the future. Old Boston Neck Road also has scenic qualities, from South Ferry Road to Boston Neck Road adjacent to the Pettaquamscott Cove National Wildlife Refuge (to the east) and private properties (to the west).
Table 33. Road Segments with the Highest Number of Accidents

<table>
<thead>
<tr>
<th>Road Name</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boston Neck Road</td>
<td>81</td>
<td>109</td>
<td>107</td>
<td>100</td>
<td>95</td>
</tr>
<tr>
<td>Great Island Road</td>
<td>14</td>
<td>15</td>
<td>9</td>
<td>14</td>
<td>11</td>
</tr>
<tr>
<td>Kingstown Road</td>
<td>37</td>
<td>42</td>
<td>46</td>
<td>67</td>
<td>40</td>
</tr>
<tr>
<td>Narragansett Avenue</td>
<td>13</td>
<td>6</td>
<td>18</td>
<td>11</td>
<td>9</td>
</tr>
<tr>
<td>Ocean Road</td>
<td>41</td>
<td>32</td>
<td>39</td>
<td>60</td>
<td>55</td>
</tr>
<tr>
<td>Point Judith Road</td>
<td>169</td>
<td>155</td>
<td>186</td>
<td>188</td>
<td>166</td>
</tr>
<tr>
<td>Route 1 Off-ramp at Woodruff Ave.</td>
<td>14</td>
<td>15</td>
<td>12</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>Sand Hill Cove Road</td>
<td>16</td>
<td>18</td>
<td>21</td>
<td>15</td>
<td>13</td>
</tr>
<tr>
<td>South Pier Road</td>
<td>21</td>
<td>25</td>
<td>15</td>
<td>18</td>
<td>21</td>
</tr>
<tr>
<td>Woodruff Avenue</td>
<td>29</td>
<td>42</td>
<td>31</td>
<td>25</td>
<td>24</td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
<td>435</td>
<td>459</td>
<td>484</td>
<td>518</td>
<td>454</td>
</tr>
<tr>
<td><strong>TOWNWIDE TOTAL</strong></td>
<td>647</td>
<td>657</td>
<td>706</td>
<td>736</td>
<td>666</td>
</tr>
<tr>
<td><strong>PERCENTAGE OF TOWNWIDE</strong></td>
<td>67%</td>
<td>70%</td>
<td>69%</td>
<td>70%</td>
<td>68%</td>
</tr>
</tbody>
</table>

Source: Narragansett Police Department

Proposed Road Improvements

The Rhode Island Statewide Planning Program publishes the Transportation Improvement Program (TIP) for proposed road improvement projects. The TIP includes a four-year plan that indicates the priority and anticipated initiation dates of proposed projects. The TIP is prepared by the State Planning Council, with input from the Rhode Island Statewide Planning Program, the Transportation Advisory Committee, and the Rhode Island Public Transit Authority, Rhode Island’s 39 cities and towns, and the general public. The Town of Narragansett regularly participates in developing the TIP. As shown in Table 34, there are several projects currently programmed in Narragansett on the latest TIP.

Table 34. Projects in Narragansett Part of the Transportation Improvement Program (Fiscal Years 2013-2016)

<table>
<thead>
<tr>
<th>Project</th>
<th>Program</th>
<th>Cost (millions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>South County Bike Path Extension</td>
<td>Study and Development</td>
<td>$1.55</td>
</tr>
<tr>
<td>Great Island Bridge</td>
<td>Bridge</td>
<td>$3.00</td>
</tr>
<tr>
<td>Boston Neck Rd Beautification – South</td>
<td>Enhancement</td>
<td>$0.25</td>
</tr>
<tr>
<td>Ocean Rd Beautification – Phase I &amp; II</td>
<td>Enhancement</td>
<td>$0.62</td>
</tr>
<tr>
<td>Bridgetown Rd</td>
<td>Pavement Management</td>
<td>$1.00</td>
</tr>
<tr>
<td>South Pier Rd Reconstruction</td>
<td>Pavement Management</td>
<td>$1.30</td>
</tr>
<tr>
<td>Ocean Rd @ Knowlesway</td>
<td>State Traffic Commission</td>
<td>--</td>
</tr>
<tr>
<td>Point Judith Rd @ Knowlesway</td>
<td>State Traffic Commission</td>
<td>--</td>
</tr>
<tr>
<td>Point Judith Rd @ Woodruff Rd/S Pier Rd</td>
<td>State Traffic Commission</td>
<td>--</td>
</tr>
</tbody>
</table>

Source: RIDOT
Public Transportation – Bus Service

Rhode Island Public Transportation Authority (RIPTA) bus routes provide regular service between Narragansett and Providence (Figure 11). RIPTA operates express and local bus service between the Salt Pond Plaza in Narragansett and Kennedy Plaza in Providence (RIPTA Route 14). There is also bus transit service between Newport, Jamestown, and the University of Rhode Island and Narragansett (RIPTA Route 64). These RIPTA routes operate daily and make stops at Bonnet Shores and Narragansett Pier. In spring 2007, a new bus service was added to serve the southern half of the Town using Point Judith Road and Sand Hill Cove Road and terminating at the Block Island ferry dock in Galilee, (RIPTA Route 66). This route also originates in Kennedy Plaza and provides transit between Providence, the Community College of Rhode Island in Warwick, URI, the Kingston Rail Station, and Salt Pond Plaza. After its initial launch, Route 66 was subsequently shortened and service frequency was reduced due to RIPTA’s budget constraints.

Narragansett is one of six communities in which RIPTA offers FlexService, a zone-based demand-responsive service designed especially for suburban and rural communities. Flex Service operates weekdays from 6:00 AM to 6:30 PM to three regularly scheduled stops: Salt Pond Plaza, Stedman Center, and the University of Rhode Island’s Bay Campus, or anywhere within Narragansett’s Flex Zone by reservation. Reservations for travel must be made at least 48 hours in advance. Service is provided using 16-passenger, ADA accessible cutaway van. Flex Service also provides connections to RIPTA’s fixed-route bus service for travel outside the Flex Zone. Passengers can transfer to RIPTA Routes 14 and 66 at Salt Pond Plaza.

Figure 11. RIPTA Routes 14, 64, and 66 through Narragansett

Source: RIPTA
Rail Transportation

There are no active rail lines within Narragansett. Rail service to Boston and New York is available nearby at the Kingston Railroad Station in South Kingstown. AMTRAK scheduled service is also available with direct connections to locations along the northeast corridor such as Philadelphia, Baltimore, and Washington, D.C.

A rail line once extended from the main line at the Kingston station to Narragansett Pier, a distance of approximately nine miles. At the Pier, this line connected with ferry boats which provided service to the islands in Narragansett Bay. This rail service ended in 1955 and the rail line was abandoned.

Pedestrian and Bicycle Accommodations

Narragansett provides accommodations for safe movement of both pedestrians and bicyclists throughout most of the Town, in line with its status as a destination for tourists and other seeking outdoors recreation. In addition to the heavy pedestrian traffic associated with summer tourism, several bicycle rides are held and Narragansett remains a year round destination for bicyclists attracted by scenic views and accommodating roads.

Sidewalks are present on both sides of the streets throughout the mixed-use areas of Town (e.g., Boon Street), as well as Ocean Road north of South Pier Road and Boston Neck Road/Beach Street south of Sprague Bridge, Point Judith Road, and Great Island Road. South Pier Road, Narragansett Avenue, and Sand Hill Cove Road have sidewalks on one side of the street only (north and south sides, respectively). Sidewalks are primarily concrete, and in mixed condition. Crosswalks are marked at intersections throughout the town with accessible curb ramps, although ramps are lacking detectable warnings for ADA compliance.

Boston Neck Road is the preferred route for recreational bicyclists in the town, due to its aesthetic qualities, relative quiet, and shade. Typical roadway speeds are 35 to 45 miles per hour (mph), with a wide shoulder provided. “Share the Road” signage is present on Boston Neck Road. No other marked on-street bicycle facilities (i.e., bike lanes, shared lane markings) are present on town roads.

Phase III of South County’s William O’Neil Bike Path was completed in 2011. This path runs along a former railroad right-of-way that once ended in Wakefield. The bike path was expanded by RIDOT to connect South Kingstown and Narragansett. The next phase under consideration is potential expansion to Narragansett Town Beach.

As previously mentioned in this report, Narragansett was the recipient of a $300,000 Safe Routes to School Grant in 2010. The Town has been working collaboratively to implement pedestrian and bicycle improvements to the Pier Middle School, which are focused on enhanced connections and internal circulations for the school campus. Elements include connection to Prospect Avenue behind the school campus, which was formerly gated, and to Central Street.

Bridges are being added to allow the existing trail to cross a stream, thereby providing a straight connection between a dense neighborhood and the schools.
One traffic calming measure that is beneficial to pedestrian circulation is a neckdown, which is present on Kingstown Road. On Boon Street, sidewalks are currently provided on both sides of the street along with wayfinding signage, and businesses fronting Boon Street are oriented to the sidewalk.

**Water Transportation**

Out of Galilee, the Interstate Navigation Company operates two ferry services to Block Island. A traditional ferry runs with schedules varying from one to three trips a day in the winter to ten trips a day in the summer. A high speed ferry, traveling between Galilee and Block Island in only 30 minutes, operates with four trips per day in the spring and fall and six trips per day in the summer. This is a seasonal service available from mid-May through mid-October.

These ferry services are the primary transportation links between Block Island and the mainland. As such, their continued operation is essential. The ferries are also an important component in the island tourism economy. Most of the visitors to Block Island arrive by ferry from Galilee. Most of the visitors use their private automobiles to get to Galilee to take a ferry to Block Island. Parking space at Galilee is at a premium during the summer months and Block Island commuters compete with the recreational beach users and the year-round fishing industry for the limited amount of parking space available. During the summer months, substantial pulses in traffic occur on Town roadways ahead of scheduled ferry departures.

**Pier Area Shuttle**

The Town had sponsored seasonal shuttle service in the Pier Area. From Memorial Day to Labor Day, the shuttle made a continuous loop every 30 minutes from 9:00 AM to 6:00 PM at the following stops:

- Narragansett Elementary School (9:00 AM first shuttle)
- South Pavilion at the Town Beach
- North Beach Pavilion (5:30 PM last shuttle)
- The Towers
- South Pier Road and Ocean Road
- Boon Street at Leroy Thompson Park
- Pier Market Village

Signage directed riders regarding route, fee, and seasonal operation. The Town hopes to reestablish this service in the future.
HOUSING

Narragansett's housing is diverse and poses unique challenges. The Town experienced fast population growth through the 1980s and 1990s, but as it approaches full build-out, the construction of new housing will slow and redevelopment opportunities and rehabilitation of existing housing will become priority. The current conditions of the Town’s housing stock, including its location and affordability, are evaluated to ensure that the needs of all residents are met through a variety of housing types (single family homes, apartments, and condominiums) and for many income levels (single adults, young families, empty-nesters, and seniors).

Narragansett faces a unique challenge in that nearly one quarter of its housing units are rented for seasonal use. During the summer, cottages are rented weekly and from September to May, students from URI occupy the units. This poses a challenge in trying to meet the demand for rental housing by permanent residents and those who would like to move to Narragansett and cannot afford to purchase a home. Many property owners are more inclined to rent seasonally because it is more lucrative, particularly during the summer months.

Housing Characteristics

Types of Housing
The ACS (2010) reports that the majority of housing in Narragansett is single family homes (Table 35), and this number is slowly rising as more residential units constructed in town are single family units. Noted loss of units can be attributed to the margin of error associated with the ACS estimates.

Table 35. Number of Units in Housing Structures

<table>
<thead>
<tr>
<th></th>
<th>2000</th>
<th>2010</th>
<th>Margin of Error</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total housing units</td>
<td>9159</td>
<td>9,910*</td>
<td>+/ -412</td>
<td>+751</td>
</tr>
<tr>
<td>1-unit, detached</td>
<td>79.4%</td>
<td>82.0%</td>
<td>+/ -2.8</td>
<td>2.6%</td>
</tr>
<tr>
<td>1-unit, attached</td>
<td>4.0%</td>
<td>2.3%</td>
<td>+/ -0.8</td>
<td>-1.7%</td>
</tr>
<tr>
<td>2 units</td>
<td>5.2%</td>
<td>4.5%</td>
<td>+/ -2.1</td>
<td>-0.7%</td>
</tr>
<tr>
<td>3 or 4 units</td>
<td>3.1%</td>
<td>4.5%</td>
<td>+/ -1.4</td>
<td>1.4%</td>
</tr>
<tr>
<td>5 to 9 units</td>
<td>3.2%</td>
<td>2.2%</td>
<td>+/ -0.9</td>
<td>-1.0%</td>
</tr>
<tr>
<td>10 to 19 units</td>
<td>1.4%</td>
<td>1.3%</td>
<td>+/ -0.7</td>
<td>-0.1%</td>
</tr>
<tr>
<td>20 or more units</td>
<td>2.8%</td>
<td>2.5%</td>
<td>+/ -1.0</td>
<td>-0.3%</td>
</tr>
<tr>
<td>Mobile home</td>
<td>0.2%</td>
<td>0.6%</td>
<td>+/ -0.8</td>
<td>0.4%</td>
</tr>
<tr>
<td>Boat, RV, van, etc.</td>
<td>0.7%</td>
<td>0.0%</td>
<td>+/ -0.4</td>
<td>-0.7%</td>
</tr>
</tbody>
</table>

Source: 2000 Decennial Census, American Community Survey 2010 5-Year Estimates
* The American Community Survey is a mandatory, ongoing statistical survey that samples a small percentage of the population every year. Since data are based on samples, a margin of error is calculated to account for sampling and nonsampling errors.

The different residential areas in Narragansett and the types of housing in each are provided in “Land Use Planning Districts” section of Land Use. Also refer to Maps 3 through 5, which show existing residential densities.
Most housing in Narragansett has two to three bedrooms (Table 36). Nearly one quarter (22.3%) have four or more units.

**Table 36. Number of Bedrooms in Housing**

<table>
<thead>
<tr>
<th>Number of Bedrooms</th>
<th>2010</th>
<th>Margin of Error</th>
</tr>
</thead>
<tbody>
<tr>
<td>No bedroom</td>
<td>1.6%</td>
<td>+/-1.2</td>
</tr>
<tr>
<td>1 bedroom</td>
<td>6.4%</td>
<td>+/-1.9</td>
</tr>
<tr>
<td>2 bedrooms</td>
<td>32.4%</td>
<td>+/-3.6</td>
</tr>
<tr>
<td>3 bedrooms</td>
<td>37.3%</td>
<td>+/-3.2</td>
</tr>
<tr>
<td>4 bedrooms</td>
<td>15.8%</td>
<td>+/-3.1</td>
</tr>
<tr>
<td>5 or more bedrooms</td>
<td>6.5%</td>
<td>+/-2.0</td>
</tr>
</tbody>
</table>

*Source: American Community Survey 2010 5-Year Estimates*

*The American Community Survey is a mandatory, ongoing statistical survey that samples a small percentage of the population every year. Since data are based on samples, a margin of error is calculated to account for sampling and nonsampling errors.*

**Age of Housing**

As shown in Table 37, most of the housing in Narragansett was built between 1950 and 1990, corresponding with the Town’s population boom.

**Table 37. Age of Housing Stock**

<table>
<thead>
<tr>
<th>Age of Housing</th>
<th>Number of Units</th>
<th>Margin of Error</th>
<th>% of Total</th>
<th>Margin of Error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Housing Units</td>
<td>9,910*</td>
<td>+/-412</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Built 2005 or later</td>
<td>189</td>
<td>+/-95</td>
<td>1.9%</td>
<td>+/-1.0</td>
</tr>
<tr>
<td>Built 2000 to 2004</td>
<td>707</td>
<td>+/-212</td>
<td>7.1%</td>
<td>+/-2.1</td>
</tr>
<tr>
<td>Built 1990 to 1999</td>
<td>918</td>
<td>+/-241</td>
<td>9.3%</td>
<td>+/-2.4</td>
</tr>
<tr>
<td>Built 1980 to 1989</td>
<td>1,770</td>
<td>+/-315</td>
<td>17.9%</td>
<td>+/-3.0</td>
</tr>
<tr>
<td>Built 1970 to 1979</td>
<td>1,627</td>
<td>+/-288</td>
<td>16.4%</td>
<td>+/-3.0</td>
</tr>
<tr>
<td>Built 1960 to 1969</td>
<td>1,561</td>
<td>+/-326</td>
<td>15.8%</td>
<td>+/-3.2</td>
</tr>
<tr>
<td>Built 1950 to 1959</td>
<td>1,536</td>
<td>+/-281</td>
<td>15.5%</td>
<td>+/-2.8</td>
</tr>
<tr>
<td>Built 1940 to 1949</td>
<td>508</td>
<td>+/-175</td>
<td>5.1%</td>
<td>+/-1.7</td>
</tr>
<tr>
<td>Built 1939 or earlier</td>
<td>1,094</td>
<td>+/-247</td>
<td>11.0%</td>
<td>+/-2.4</td>
</tr>
</tbody>
</table>

*Source: U.S. Census, American Community Survey 2010 5-Year Estimates*

*The American Community Survey is a mandatory, ongoing statistical survey that samples a small percentage of the population every year. Since data are based on samples, a margin of error is calculated to account for sampling and nonsampling errors.*

**Housing Conditions**

Narragansett’s housing is generally in good condition and there are no specific neighborhoods that appear to be worsening in their condition or becoming blight. Issues related to housing conditions are more on an individual basis and, in some instances, related to nuance complaints.
Tenure and Occupancy
Narragansett has historically been an even mix of owner-occupied and rental housing. Figure 12 shows the gradual increase of owner-occupied units, from 56% in 1980 to 63% (4,208 units) in 2010; however, there still is a high proportion of rental properties in Narragansett (37% or 2,496 units).

Figure 12. Residential Occupancy, 1980-2010

If housing occupancy is looked at in more detail, we find that while the U.S. Census reported high vacancy rates in Narragansett between 1980 and 2010, shown in Table 38. A large portion of those vacant units were, and continue to be, seasonal rentals. In Narragansett, seasonal units are rented both in the summer (weekly, and perhaps in some instances monthly) and to URI students September to May. The number of seasonal housing units continued to increase through 2010, consistently comprising one quarter of the Town’s total housing stock. It should also be noted that some of the year-round vacancies may also include households that choose to not live in Narragansett year-round, but also choose not to rent when they are not in town.

The market appeared to be slightly impacted by the economic recession in the later part of the 2000 decade. While the number of total housing units increased slightly in 2010, occupied units decreased, and vacant units decreased, both in seasonal rentals and year-round vacancies.
Table 38. Breakdown of Housing Occupancy Status, 1980-2010

<table>
<thead>
<tr>
<th></th>
<th>1980 (% of total units)</th>
<th>1990 (% of total units)</th>
<th>2000 (% of total units)</th>
<th>2010 (% of total units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Housing Units</td>
<td>6,587</td>
<td>8,206</td>
<td>9,159</td>
<td>9,470</td>
</tr>
<tr>
<td>Occupied</td>
<td>5,179 (77.3%)</td>
<td>5,846 (71.2%)</td>
<td>6,846 (74.7%)</td>
<td>6,704 (70.8%)</td>
</tr>
<tr>
<td>Vacant</td>
<td>1,498 (22.7%)</td>
<td>2,363 (28.8%)</td>
<td>2,313 (25.3%)</td>
<td>2,766 (29.2%)</td>
</tr>
<tr>
<td>Seasonal, recreational, or occasional use vacancy</td>
<td>N/A</td>
<td>1,891 (23.0%)</td>
<td>2,035 (22.2%)</td>
<td>2,314 (24.4%)</td>
</tr>
<tr>
<td>Year-round vacancy</td>
<td>N/A</td>
<td>472 (5.8%)</td>
<td>278 (3.0%)</td>
<td>452 (4.8%)</td>
</tr>
<tr>
<td>Average person per household</td>
<td>2.33</td>
<td>2.56</td>
<td>2.39</td>
<td>2.36</td>
</tr>
<tr>
<td>Average person per family household</td>
<td>2.86</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source: U.S. Census, 1990-2010

How Narragansett compares to other Washington County communities is shown in Table 39. Westerly has a slightly higher percentage of rental units, but it has a more urbanized, mixed use town center and older mill villages, such as Potter Hill and Bradford, with multi-unit housing. Narragansett still maintained more rental properties than South Kingstown, which also has a strong seasonal community and is a popular housing option for URI students choosing to live off campus.

Table 39. Housing Status of Occupied Units in Washington County Communities, 2010

<table>
<thead>
<tr>
<th></th>
<th>Owner-occupied</th>
<th>Renter-occupied</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charlestown</td>
<td>84%</td>
<td>16%</td>
</tr>
<tr>
<td>Exeter</td>
<td>86%</td>
<td>14%</td>
</tr>
<tr>
<td>Hopkinton</td>
<td>80%</td>
<td>20%</td>
</tr>
<tr>
<td>Narragansett</td>
<td>63%</td>
<td>37%</td>
</tr>
<tr>
<td>North Kingstown</td>
<td>75%</td>
<td>25%</td>
</tr>
<tr>
<td>South Kingstown</td>
<td>73%</td>
<td>25%</td>
</tr>
<tr>
<td>Westerly</td>
<td>65%</td>
<td>35%</td>
</tr>
</tbody>
</table>

U.S. Census, 2010

Table 40 shows a noticeable increasing trend in housing units occupied by single residents and non-family members. There are a few possible contributors. The first relates back to the decreasing number of younger children in the town and the possibility that young families are moving out of town. Also, there has been an historic trend nationally of more individuals living alone. In 2000, one in four lived alone, compared to 7.7% in 1940, and Rhode Island has historically had higher rates of individuals living alone compared to other states. Nationally, the number of persons older than 65 living alone is also increasing.21 Another contributor is a large number of non-relatives living together. Although there is no data that specifically says these units are occupied by college students, it is safe to conclude that students make up the majority of data set.

Table 40. Housing Occupancy, Family and Non-Family Members, 1990-2010

<table>
<thead>
<tr>
<th></th>
<th>1990</th>
<th>2000</th>
<th>2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Family Housing</td>
<td>3,537</td>
<td>3,846</td>
<td>3,560</td>
</tr>
<tr>
<td>Non Family Housing</td>
<td>2,306</td>
<td>3,000</td>
<td>3,144</td>
</tr>
<tr>
<td>Non Family Percentage</td>
<td>40%</td>
<td>42%</td>
<td>47%</td>
</tr>
<tr>
<td>Residents Living Alone</td>
<td>1,313</td>
<td>1,859</td>
<td>1,917</td>
</tr>
<tr>
<td>Non Relatives Living Together</td>
<td>N/A</td>
<td>2,298</td>
<td>2,739</td>
</tr>
</tbody>
</table>

Source: U.S. Census, American Community Survey 2010 5-Year Estimates

Housing Development and Past Trends

As shown in Figure 13, over the last decade, a majority of permits issued for new home construction have been for single family homes. Between 2000 and 2011, only 28 new units were in multifamily structures, compared to the 747 issued for single family.

Figure 13. Building Permits Issued for New Residential Construction, 2000-2011

Median sales prices for single family homes in Narragansett continued to be the highest in Washington County (Table 41). Even as overall sales prices have declined in the past five years, Narragansett still remained a community with higher priced homes. In 2011, the median sales price for a single family home in Narragansett was $160,000 more than the statewide median price (Figure 14).
### Table 41. Single Family Median Sales Prices, 2005-2011

<table>
<thead>
<tr>
<th></th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charlestown</td>
<td>$389,900</td>
<td>$392,500</td>
<td>$400,000</td>
<td>$390,000</td>
<td>$288,000</td>
<td>$350,000</td>
<td>$308,750</td>
</tr>
<tr>
<td>Exeter</td>
<td>$390,000</td>
<td>$377,500</td>
<td>$296,000</td>
<td>$350,000</td>
<td>$285,000</td>
<td>$311,500</td>
<td>$322,500</td>
</tr>
<tr>
<td>Hopkinton</td>
<td>$303,500</td>
<td>$282,500</td>
<td>$302,000</td>
<td>$249,450</td>
<td>$250,000</td>
<td>$225,000</td>
<td>$220,000</td>
</tr>
<tr>
<td>North Kingstown</td>
<td>$415,000</td>
<td>$397,450</td>
<td>$376,000</td>
<td>$344,000</td>
<td>$292,000</td>
<td>$304,505</td>
<td>$280,000</td>
</tr>
<tr>
<td>Narragansett</td>
<td>$432,105</td>
<td>$430,000</td>
<td>$395,000</td>
<td>$411,050</td>
<td>$337,000</td>
<td>$350,000</td>
<td>$355,000</td>
</tr>
<tr>
<td>Richmond</td>
<td>$315,000</td>
<td>$318,500</td>
<td>$276,325</td>
<td>$236,750</td>
<td>$265,000</td>
<td>$239,000</td>
<td>$230,000</td>
</tr>
<tr>
<td>South Kingstown</td>
<td>$374,500</td>
<td>$365,000</td>
<td>$355,000</td>
<td>$316,000</td>
<td>$286,250</td>
<td>$290,000</td>
<td>$280,000</td>
</tr>
<tr>
<td>Westerly</td>
<td>$335,000</td>
<td>$321,950</td>
<td>$349,900</td>
<td>$300,000</td>
<td>$282,000</td>
<td>$276,750</td>
<td>$275,000</td>
</tr>
<tr>
<td>Washington County</td>
<td>$382,200</td>
<td>$371,250</td>
<td>$352,450</td>
<td>$330,000</td>
<td>$285,625</td>
<td>$297,253</td>
<td>$280,000</td>
</tr>
<tr>
<td>Rhode Island</td>
<td>$282,900</td>
<td>$282,500</td>
<td>$275,000</td>
<td>$234,900</td>
<td>$199,400</td>
<td>$210,000</td>
<td>$195,000</td>
</tr>
</tbody>
</table>

Source: RI Realtor Association (www.riliving.com)

### Figure 14. Single Family Home Median Sales Price, Narragansett, Washington County, and State, 2005-2011

Source: RI Realtor Association (www.riliving.com)
Housing Affordability

Like all communities, Narragansett strives to provide diverse, affordable housing to its residents with a range of household incomes. As discussed above, Narragansett home prices continued to be the highest in Washington County and one of its greatest challenges to overcome to attract young residents and families.

In addition to high home sale prices, there are many factors to consider when quantifying and characterizing the need for affordable housing in Narragansett. Understanding these issues will allow the Town to develop strategies to meet the demand.

The Cost of Living in Narragansett

One way to evaluate the need for affordable housing is by looking at how much a household pays for monthly shelter expenses such as rent and mortgage, including associated insurance and utilities. When a household pays more than 30% of its income on these items, it is considered unaffordable. Table 42 lists the average monthly rents from the Rhode Island Housing Rent Survey conducted in 2010. Rents in Narragansett were on average between $120 and $190 more that the state average. To afford these rents, a household would need an average income of $51,400.22

<table>
<thead>
<tr>
<th>1 Bedroom</th>
<th>2 Bedroom</th>
<th>3 Bedroom</th>
</tr>
</thead>
<tbody>
<tr>
<td>Narragansett</td>
<td>na</td>
<td>$1,285</td>
</tr>
<tr>
<td>State Average</td>
<td>$943</td>
<td>$1,165</td>
</tr>
</tbody>
</table>

Table 42. Average Monthly Rents for Advertised Unfurnished, Non-seasonal Housing, 2010

Source: Rhode Island Rent Survey by RI Housing, 2010

In 2011, the median sales price for a single family home in Narragansett was about $355,000. A typical monthly housing payment for this home would be approximately $2,427 and would require a household income of $97,100.23

Some Narragansett residents are struggling with housing costs. In 2010, the ACS estimated that more than half of renters were paying 30% or more of their household incomes towards gross rent.24 While this number appears to be significant, a majority of renters in Narragansett are college students with little to no income, presumably supplemented with outside assistance, such as educational grants and loans.

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22 HousingWorks RI Factbook, 2010. www.housingworksri.org
23 HousingWorks RI calculates this using a 30-year mortgage at 4.69% interest (2010 average rate) with a 3.5% down payment, property taxes (the state’s average rate of $16.44 per $1,000 of the home’s valuation), hazard insurance ($75/month), and monthly mortgage insurance (1.15%/month).
24 The U.S. Census defines “gross rent” as the amount of the contract rent plus the estimated average monthly cost of utilities (electricity, gas, and water and sewer) and fuels (oil, coal, kerosene, wood, etc.) if these are paid for by the renter (or paid for the renter by someone else). Gross rent is intended to eliminate differentials which result from varying practices with respect to the inclusion of utilities and fuels as part of the rental payment.
More telling figures are those for homeowners. Nearly 40% of those without mortgages (typically seniors) were paying more than 30% of their income towards selected monthly owner costs. Just over one quarter of homeowners with a mortgage were paying expenses considered unaffordable. Figure 15 provides additional detail regarding these households and percentage of income towards housing expenses.

Figure 15. Gross Rent and Selected Monthly Owner Costs as a Percentage of Household Income

Foreclosures

There are many factors that contribute to the local rate of foreclosures, including the economic environment, housing availability and costs, and property values, among many others. Currently, economic recovery from the recession that started in 2008 is slow in Rhode Island. Leading up to the recession, the gradual increase of home sale prices in the state started in 2000 and peaked between 2005 and 2006. When the housing and credit market crash occurred in 2008, high unemployment spread throughout the country and Rhode Island had, at one point, the second highest rate, after Michigan. Property values depreciated and homeowners found themselves with homes worth less than 25

Source: American Community Survey 2010 5-Year Estimates

25 The U.S. Census defines “selected monthly owner costs” as those costs calculated from the sum of payment for mortgages, real estate taxes, various insurances, utilities, fuels, mobile home costs, and condominium fees.
their mortgages. Initially, many received financing under very loose lending practices and subprime adjustable mortgage rates that, coupled with high unemployment, ultimately resulted in payments they could not afford. Foreclosures throughout the state reached record highs and in 2009 the state’s foreclosure rate ranked 10th in the nation. Those hit the hardest were the more urban communities of Providence, Warwick, Cranston, Pawtucket, and Woonsocket.

In 2011, Rhode Island still led the New England states in foreclosure initiations. While the number of foreclosures filed decreased from 2009 to 2010 and the state’s rate of foreclosure initiations and serious delinquencies dropped, the number of actual foreclosures increased in 2011. Some attribute this to the slow processing procedures. Conditions may be improving for residents statewide. In Narragansett, between 2009 and 2011, 38 foreclosures were filed, or 1.2% of mortgaged housing stock, a rate much lower than many Rhode Island communities. There were four filed in 2011.26 The few foreclosures can be attributed to stable employment and household incomes of residents.

Homelessness
According to the Rhode Island Coalition for the Homeless, the number of Rhode Islanders entering into the homeless shelter system at any given time a given year has steadily increased since 2007. In 2012, the number of individuals reached nearly 4,900, 26% of which were children (Figure 16).

The number of Narragansett residents that are or were formerly homeless during a given year is not known. According to the 2008 annual report of the Rhode Island Emergency Shelter Information Project, 34 clients in area shelters identified Narragansett as their last place of residence (2007-2008). Based on the increasing demand for beds statewide, it can be assumed that a similar increase has occurred in Narragansett. Resources for those that are homeless or on the verge of becoming homeless in Narragansett are the Domestic Violence Center of South County (Wakefield), Welcome House of South County (Peace Dale), and Warm Shelter (Westerly).

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Low and Moderate Income Units
In 2004, the Rhode Island state legislature passed the Low and Moderate Income Housing Act (RIGL §45-53) in an effort to meet a statewide shortage of housing affordable to low and moderate income households. Within one year, the Act required each community to prepare an affordable housing plan that described the local demand and outlined strategies the community would take to meet the needs of its low and moderate income residents. The Act mandated a goal that 10% of each community’s housing stock must be affordable to low and moderate income households, defined as:

“...any housing whether built or operated by any public agency or any nonprofit organization or by any limited equity housing cooperative or any private developer, that is subsidized by a federal, state, or municipal government subsidy under any program to assist the construction or rehabilitation of housing affordable to low or moderate income households, as defined in the applicable federal or state statute, or local ordinance and that will remain affordable through a land lease and/or deed restriction for ninety-nine (99) years or such other period that is either agreed to by the applicant and town or prescribed by the federal, state, or municipal government subsidy program but that is not less than thirty (30) years from initial occupancy.”

(RIGL §45-53-3 Definitions)

Narragansett completed its Affordable Housing Plan and received approval in 2005. During the current update process, it has been integrated into the Comprehensive Plan.
Low and moderate income levels are established by the U.S. Department of Housing and Urban Development (HUD) annually for each HUD Metro Fair Market Rent Area. A low income household has an income at or below 80% of the area median income. A moderate income household has an income between 80% and 120% of the area median income. These figures are adjusted by household size. The Town has implemented several strategies to meet the state-mandated low and moderate income (LMI) units goal of 10%. As shown in Table 43, LMI units comprise 3.5% of the Town’s 7,156 year-round housing units. To meet the 10% goal, an additional 466 LMI units are needed.

Table 43. Housing Stock and LMI Unit Summary, 2011

| Total housing units | 9,470 |
| Less seasonal units | 2,314 |
| Total year-round units | 7,156 |
| 10% state-mandated goal | 716 |
| Total LMI Units | 250 |
| LMI units as a percent of total year-round units | 3.5% |
| Additional LMI units to meet state-mandated 10% goal | 466 |

Source: 2010 U.S. Census, RI Housing (5/20/2011)

As of May 2011, 250 LMI units were distributed among housing types that met the needs of the elderly, families, and populations with special needs and are detailed in Table 44. Slightly less than half of the LMI units were dedicated to families (120 units or 48%) or the elderly (108 units or 43%). Elderly LMI units were all rentals and family LMI units were a mix of rental and homeownership. A small percentage (8.8%) was dedicated to residents with special needs, specifically supportive units for rent (9 units) and group home beds (13 units).

Table 44. Existing LMI Units, May 2011

<table>
<thead>
<tr>
<th>Development Name</th>
<th>Type</th>
<th>Tenure</th>
<th>Actual Address</th>
<th>Total LMI units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elderly</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beachwood</td>
<td>RIH Elderly</td>
<td>Rental</td>
<td>30 Kingstown Road</td>
<td>56</td>
</tr>
<tr>
<td>Mansion</td>
<td>Public Hsg - Elderly</td>
<td>Rental</td>
<td>25 Fifth Avenue</td>
<td>4</td>
</tr>
<tr>
<td>South Wind</td>
<td>RIH Elderly</td>
<td>Rental</td>
<td>29 South Pier Road</td>
<td>48</td>
</tr>
<tr>
<td>Elderly Subtotal</td>
<td></td>
<td></td>
<td></td>
<td>108</td>
</tr>
<tr>
<td>Family</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boon Street</td>
<td>Public Hsg - Family</td>
<td>Rental</td>
<td>129 Boon Street</td>
<td>2</td>
</tr>
<tr>
<td>Clarke Point</td>
<td>RIH Family</td>
<td>Homeownership</td>
<td>190 Clarke Road, Bldg B; 200 Clarke Road, Bldg A</td>
<td>40</td>
</tr>
</tbody>
</table>
Development Name | Type | Tenure | Actual Address | Total LMI units |
--- | --- | --- | --- | --- |
Coffey Avenue | RIH Family | Homeownership | 12,14 Coffey Avenue; 9, 1 Frances Avenue | 4 |
Continental Street | RIH Family | Rental | 33 Continental Street | 2 |
Fieldstone Apartments | RIH Family | Rental | 125 Knowlesway Extension | 24 |
Kingstown Road | Public Hsg - Family | Rental | 48, 129, 131 Kingstown Road | 7 |
Perkins Avenue | Public Hsg - Family | Rental | 18 Perkins Avenue | 1 |
Rockland Street | Public Hsg - Family | Rental | 6 Rockland Street | 2 |
Water’s Edge Apartments | RIH Family | Rental | 130 Caswell Street | 32 |
Wayland Trail | RIH Family | Homeownership | 50 Wayland Trail | 1 |
Fifth Avenue/ Robinson Street | RIH Family | Rental | 50A, 50B Fifth Avenue | 2 |
Surfside Condominiums | Other-Family | Homeownership | 20 Narragansett Avenue, #804, 904 | 3 |
**Family Subtotal** | | | | **120** |
**Special Needs** | | | | |
Galilee Mission | Supportive Units | Rental | 268 Kingstown Road | 9 |
Group Home Beds | Group Home Beds | NA | NA | 13 |
**Special Needs Subtotal** | | | | **22** |
**Total LMI Units** | | | | **250** |

Source: RI Housing, 5/20/2011

Since May of 2011, the Town has approved several projects that include LMI units. Two have been constructed: Narragansett Highlands with 16 LMI units and Mettatuxet Replat with two LMI units. Further, projects have been approved but are not yet built. They are Farm House with three LMI units, Atlantic East with 16 LMI units, and Christian Brothers with 90 LMI units. As shown in Table 45, these units will bring total LMI units to 377, or 5.3% of year-round housing.
### Table 45. LMI Units Constructed and Approved Since May 2011

<table>
<thead>
<tr>
<th>Development Name</th>
<th>Total LMI Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Constructed</strong></td>
<td></td>
</tr>
<tr>
<td>Narragansett Highland</td>
<td>16</td>
</tr>
<tr>
<td>Mettatuxet Replat</td>
<td>2</td>
</tr>
<tr>
<td><strong>Approved but Not Constructed</strong></td>
<td></td>
</tr>
<tr>
<td>Farm House</td>
<td>3</td>
</tr>
<tr>
<td>Atlantic East</td>
<td>16</td>
</tr>
<tr>
<td>Christian Brothers</td>
<td>90</td>
</tr>
<tr>
<td><strong>Total Anticipated New LMI Units</strong></td>
<td>127</td>
</tr>
<tr>
<td><strong>Existing LMI Units</strong></td>
<td>250</td>
</tr>
<tr>
<td><strong>Total LMI Units</strong></td>
<td>377</td>
</tr>
<tr>
<td><strong>Percentage of Total Year-Round Housing</strong></td>
<td>5.3%</td>
</tr>
</tbody>
</table>

### Housing Needs

#### Overall Housing Needs

The Town projects that in the next 20 years the population is estimated to increase by 2,800. This number is tied to the buildout analysis and the estimate of 1,009 new year-round housing units (2.78 persons per family household). Whether this full number of new units is realized is contingent on a property owner’s desire to build or even subdivide their lot in some instances. Alternatively, the State projects the Town’s additional population in 20 years to be 413, which, assuming they would be year-round residents, would be accommodated by about 150 new housing units (2.78 persons per family household).

Overall, single family homes have been the dominate construction activity. The market for these types of homes exists in Narragansett, and it is assumed that they will continue to be the dominate new construction.

Fewer duplex and multi-family buildings have being built. Less than 10 permits have been issued in the past five years. Multi-family housing can increase the market affordability of Narragansett to younger families and professionals as well as to seniors looking to down-size but want to stay in the community. These units might only have one or two bedrooms. Smaller units would be most appropriate as infill in the Pier Area, near shopping, restaurants, the library, and the schools. This area is also accessible to one of the RIPTA bus routes that serve the Town. The area also has water and sewer service, and fewer environmental constraints to development.

Multi-unit housing also opens opportunities for year-round rentals, an expressed housing need. The number of year-round rentals in Narragansett has been on the decline for several reasons, including the seasonal nature of the community. Single family homes also can be rentals, but may not be as affordable in the housing market.

#### Low and Moderate Income Housing Needs

There exists a clear demand for more affordable housing options in Narragansett. As demonstrated in the charts in Figure 15, 28% of homeowners with a mortgage and 38% of homeowners without a mortgage
pay more than 30% of their income on housing costs, creating a housing cost burden. Many of these households are predominately elderly, and this population and economic condition can be expected to grow as the Baby Boomers age. Equally, the loss of residents between the ages of 25 and 40 indicate that young families are leaving town, and the need for affordable housing opportunities for families still remains high. With the significant number of seasonal rentals, the opportunities for moderate and low income households to rent in Narragansett becomes a greater challenge. Both of these groups can benefit from more affordable housing opportunities.

Current LMI household types available in Narragansett are:

- Elderly: 108 units
- Family: 120 units
- Other (Special Needs): 22

To determine the projected number of LMI units that the Town will need in the future, the 1,009 year-round housing units projected based on the buildout analysis (Appendix B) were used. These additional units would increase the 10% mandated goal of 716 by 100 units. Therefore, the total projected need for affordable housing at full buildout would be 816 units.
HISTORIC, CULTURAL AND SCENIC RESOURCES

Narragansett’s historic and cultural resources, along with its scenic views and vistas, are important attributes that give the town its sense of place. Distinguishing landmarks and notable views can easily be identified as being in Narragansett, like The Towers, the Harbor of Refuge, or the Point Judith Lighthouse, and these features contribute greatly to Narragansett’s character as a seaside community.

Historical Overview

The Rhode Island Historical Preservation and Heritage Commission (RIHPHC) published a town-wide inventory of Narragansett’s historic and cultural resources. The survey offers background on the development of Narragansett. According to RIHPHC, Narragansett was part of the lands of the Narragansett Indians prior to English settlement. English colonists began coming to New England in the 1650s and over the next half-century, Rhode Island, Connecticut, and Massachusetts vied for control over Narragansett lands. Eventually, the British crown placed the region under Rhode Island authority.

After the defeat of the Narragansetts during King Philip’s War (1675-6), European settlements spread throughout the region. Starting in the late 17th century, large rural estates along the coast from Wickford to Charlestown were created. Among these larger landholdings, the “Narragansett Planter Society,” landowners that grew and exported agricultural products through the use of slave labor, evolved, but died out before the Revolutionary War. Agriculture, however, remained an important part of the local economy until the 19th century. Narragansett’s primary settlements through the 18th and 19th century were at Narragansett Pier and South Ferry, the latter of which was on an important transport route to Newport.

The Industrial Revolution that impacted so many other communities in Rhode Island seemed to bypass Narragansett, primarily because of its lack of streams that could generate enough power to fuel large factories. During this period, the local economy was based on farming and shipping, with secondary occupations such as shipbuilding.

By the mid-19th century, however, Narragansett’s economy shifted, and people began visiting Narragansett to experience its seaside attractions. Two significant developments occurred that shaped the town’s architectural character: hotels were built at Narragansett Pier and large summer homes were constructed by affluent out-of-towners. A primary form of transportation to get to the Narragansett was the Narragansett Pier Railroad, which brought visitors to the Pier area from Kingston Station. By the last quarter of the 19th century, Narragansett had joined Newport and Watch Hill as one of the premier summer destinations in Rhode Island.

While a popular destination through the beginning of the 20th century, Narragansett’s popularity began to wane. The Narragansett Pier Railroad eventually stopped running because of increased use of the auto, which encouraged more day trips and fewer visitors extending their stay.

Structures were destroyed through several devastating fires. In 1900, two of the Pier’s premier landmarks, the Rockingham Hotel and the Casino, were destroyed in a great conflagration which consumed several adjacent business blocks. Only The Towers (a part of the Casino) survived. The Sprague Mansion, also known as Canonchet, burned to the ground in 1909. In the 1920s two more Pier hotels burned: the Imperial in 1925 and the Revere Hotel in 1928. In the early 1980s, one of two remaining hotels, the Greene Inn was destroyed by fire.
The 1938 Hurricane eventually brought an end to the resort hotel era in Narragansett. The storm wiped clean whole areas of beach front, including hotels and beach pavilions at the Pier, and the fishing villages of Galilee and Jerusalem.

Between 1940 and 1960, the Pier became a blighted commercial district and derelict summer homes along Ocean Road were demolished. The Urban Renewal Program of the early 1970s demolished several blocks in the Pier. Between 1970 and 1972, the entire 28 acres was cleared to create a super-block for redevelopment. Not only was the historic fabric demolished, but also the street grid network. During this time and for several decades previous, historic seaside summer “cottages” (Shingle-style and stone mansions) along Ocean Road were considered white elephants - too large to heat and maintain. Many were torn down to be replaced by contemporary homes for year-round occupancy.

The latter part of the 20th century saw a renewed interest in Narragansett as a destination. While new development, both seasonal and year-round, in the North and South Ends of town has been characterized as suburban type housing, many of the historic homes in the Pier area and along Ocean Road have been restored to preserve a significant portion of the Town’s remaining historic character.

Not only did Urban Renewal remove the commercial heart of the Pier, it replaced the old buildings with new architecture contextually alien to New England seaside architecture. Significantly, this area remains set apart from surrounding historic residential fabric. A phased redevelopment plan for the entire site has been proposed by the private owner of the Pier Marketplace. The plan involves complete rehabilitation of the existing 88 apartment units and construction of a new residential building bringing the total to 104 dwelling units. Later phases will include expansion and rehabilitation of the existing commercial and retail uses.

**Historic Districts and Structures**

The RIHPHC historic and cultural survey of Narragansett is a compilation of material from two separate surveys of the Town conducted by the RIHPHC in 1974 and in 1986. The first survey, limited to the Narragansett Pier area, resulted in the publication of Narragansett Pier, Narragansett, RI Statewide Historical Preservation Report W-N-1, 1978. The project was initiated to identify resources worthy of inclusion in the National Register of Historic Places, which is a federal list of structures, sites, areas, and objects significant to American history, architecture, archaeology, and culture and the official inventory of the Nation’s cultural and historical resources worthy of preservation. Most properties entered are nominated for inclusion by state historical preservation agencies like the RIHPHC. All properties must be reviewed and approved by the U.S. Department of the Interior prior to their entry in the Register.

The 1986 survey is a result of the RIHPHC’s ongoing program to evaluate properties of historical, archaeological, and architectural significance in Rhode Island. In all, over 160 resources in Narragansett were researched and recorded by RIHPHC. The report is a significant inventory and appraisal of the remaining cultural resources, which individually and in districts convey the heritage and architectural character of the Town and its sense of place. As a result of survey activities, resources and districts have been listed or have been recognized as eligible for listing in the National Register of Historic Places. They are presented in Table 46 and shown in Map 11.
### Table 46. Properties Listed on or Eligible for the National Register of Historic Places

<table>
<thead>
<tr>
<th>Resource</th>
<th>Location</th>
<th>Date Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Street Historic District</td>
<td>Central and Caswell Streets</td>
<td>8/18/82</td>
</tr>
<tr>
<td>Druidsdream</td>
<td>144 Gibson Avenue</td>
<td>7/20/89</td>
</tr>
<tr>
<td>Dunmere Gatehouse and Grounds</td>
<td>530-80 Ocean Road</td>
<td>9/23/05</td>
</tr>
<tr>
<td>Earlscourt Historic District</td>
<td>Earles Court and Gibson Avenue</td>
<td>8/18/82</td>
</tr>
<tr>
<td>Gardencourt</td>
<td>10 Gibson Avenue</td>
<td>8/18/82</td>
</tr>
<tr>
<td>Gladstone Spring House</td>
<td>145 Boon Street</td>
<td>5/10/84</td>
</tr>
<tr>
<td>Life Saving Station at Narragansett Pier/Coast Guard House</td>
<td>40 Ocean Road</td>
<td>6/30/76</td>
</tr>
<tr>
<td>Narragansett Baptist Church/South Ferry Church</td>
<td>South Ferry Road</td>
<td>11/25/77</td>
</tr>
<tr>
<td>Ocean Road Historic District</td>
<td>Ocean Road, Hazard and Newton Avenues</td>
<td>8/18/82</td>
</tr>
<tr>
<td>Point Judith Lighthouse</td>
<td>1470 Ocean Road</td>
<td>3/30/88</td>
</tr>
<tr>
<td>The Towers/Tower Entrance of the Narragansett Casino</td>
<td>Ocean Road</td>
<td>1969</td>
</tr>
<tr>
<td>The Towers Historic District</td>
<td>Exchange, Taylor and Mathewson Streets and the Atlantic Ocean</td>
<td>8/18/82</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Resource</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anawan Farm</td>
<td>650 Boston Neck Road</td>
</tr>
<tr>
<td>Barnes Newberry, Jr., House</td>
<td>Ocean Road</td>
</tr>
<tr>
<td>Breakers Archeological Site</td>
<td>off Ocean Road</td>
</tr>
<tr>
<td>Campbell [archeological] site</td>
<td>Boston Neck Road</td>
</tr>
<tr>
<td>Canonchet Farm (Cemetery)</td>
<td>106 Anna Hoxsie Lane</td>
</tr>
<tr>
<td>Chester Allen House</td>
<td>Narragansett Avenue</td>
</tr>
<tr>
<td>Congdon Hill Farm</td>
<td>South Ferry Road</td>
</tr>
<tr>
<td>Fort Nathanial Greene</td>
<td>Old Point Judith Road</td>
</tr>
<tr>
<td>Fort Varnum</td>
<td>Old Boston Neck Road South</td>
</tr>
<tr>
<td>Governor Sprague Bridge</td>
<td>Boston Neck Road</td>
</tr>
<tr>
<td>Hazard House/Nancook Farm</td>
<td>Old Boston Neck Road</td>
</tr>
<tr>
<td>Hazard-Jenckes-Watson House</td>
<td>850 Boston Neck Road</td>
</tr>
<tr>
<td>Kinney-Anthony Farm/Sunset Farm</td>
<td>Old Point Judith Road</td>
</tr>
<tr>
<td>Point Judith Country Club</td>
<td>Windermere Road</td>
</tr>
<tr>
<td>Point Judith First Baptist Chapel</td>
<td>796 Point Judith Road</td>
</tr>
<tr>
<td>Rowland Robinson House</td>
<td>Old Boston Neck Road North</td>
</tr>
<tr>
<td>Sprague I Archeological Site</td>
<td>off Boston Neck Road</td>
</tr>
<tr>
<td>United States Post Office</td>
<td>Exchange Street</td>
</tr>
</tbody>
</table>

Source: Town of Narragansett
Map 11. Historic, Cultural and Scenic Resources
**Scenic Views**

Scenic resources have been both formally and informally inventoried. Notable scenic areas, also depicted in Map 10, are along Narrow River and The Narrows, the area around the Galilee Escape Road, Jerusalem, Point Judith, Scarborough Beach and the area around Sunset Farms, to name a few. Other views are to and from Wesquage Pond, Narragansett Town Beach, Hazard Rock, and Black Point, among others.

**Cultural Resources**

The Town also has developed a rich cultural scene through the visual and performing arts as well as events that showcase important local landscapes and natural history. Throughout the year, events are held at a variety of venues throughout town that highlight Narragansett’s unique seaside character. Activities include live music, plays, festivals, art exhibits, lectures, and tours. Some locations where these events and activities are held include:

- South County Museum
- Narragansett Community Center
- Narragansett Town Hall
- Veterans Park
- The Towers
- Narragansett Bay Classroom at URI’s Narragansett Bay Campus

**Historic Cemeteries**

The RI Advisory Commission on Historical Cemeteries recognizes several historical cemeteries in the Town of Narragansett. Some of the original inhabitants of Narragansett are buried in these cemeteries in graves dating back to the mid-1700s. These people were the first settlers to farm the land, build houses, stores, railroads, and shipping piers. The historical cemeteries in Narragansett reflect the history of the town and the family heritage of many Narragansett residents. Table 47 lists the names of these cemeteries and their locations in the town and they are also shown on Map 11.

**Table 47. Narragansett Historical Cemeteries**

<table>
<thead>
<tr>
<th>Historical Cemetery Name or Lot</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>William Knowles Cemetery</td>
<td>Off Point Judith Rd, at intersection of Sand Hill Cove Rd. (approximately 300 ft. back)</td>
</tr>
<tr>
<td>Green Kenyon Lot</td>
<td>On Green Kenyon Driftway, east of house #51</td>
</tr>
<tr>
<td>Gibson Avenue Cemetery</td>
<td>Gibson Avenue, opposite B&amp;B</td>
</tr>
<tr>
<td>Joseph N. Austin Cemetery</td>
<td>Off Point Judith Rd and Foddering Farm Rd</td>
</tr>
<tr>
<td>Congdon Perkins Lot</td>
<td>South Pier Rd on property #145</td>
</tr>
<tr>
<td>Lucky Star Lot</td>
<td>In front of shopping center on Point Judith Rd</td>
</tr>
<tr>
<td>Avice Street Cemetery</td>
<td>On the corner of Pleasant and Avice, next to the road.</td>
</tr>
<tr>
<td>Sprague Park Cemetery</td>
<td>Next to tennis courts on Kingstown Rd</td>
</tr>
<tr>
<td>Canonchet Farm Cemetery</td>
<td>Next to South County Museum’s main gate</td>
</tr>
<tr>
<td>Franklin-Gardiner Cemetery</td>
<td>Opposite South Ferry Meeting House, South Ferry Rd</td>
</tr>
<tr>
<td>Historical Cemetery Name or Lot</td>
<td>Location</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>--------------------------------------------------------</td>
</tr>
<tr>
<td>Stanton Lot</td>
<td>800 ft. off of South Ferry Road behind Meeting House</td>
</tr>
<tr>
<td>Rowland Robinson Burial Ground</td>
<td>Behind #30 Riverdell off of Ginger Lane</td>
</tr>
<tr>
<td>Collins Lot</td>
<td>Behind #37 Horizon Drive</td>
</tr>
<tr>
<td>John H. Knowles Lot</td>
<td>Next to #29 Anglers Court</td>
</tr>
</tbody>
</table>

Source: Town of Narragansett
**NATURAL FEATURES**

As a coastal community, Narragansett’s natural features are diverse and play a key role in the community’s quality of life. They strongly influence the town’s three economic bases: fishing, industries, real estate market, and tourism, all of which are dependent on the health of the natural environment.

**Geology**

**Bedrock Geology**

Map 12 depicts the bedrock and surficial geology. Narragansett is composed of two principal types of bedrock. The 275 million year old Narragansett Pier Granite located from just south of Wesquage Pond south to Point Judith was formed from production of magma beneath the earth’s surface brought about by a thickening of the earth’s crust during continental collision. Black Point and Hazard Rocks are two places in the town where Narragansett Pier Granite can be easily seen.

The second type of bedrock, the Rhode Island Formation, is located primarily in the northern portion of the town. These 300 million year old rocks were originally deposited as sediments in the Narragansett Basin. These sediments were subsequently changed into the meta-sedimentary rocks that we see today by the intense heat and pressure generated by the collision of Africa with eastern North America. A good example of the Rhode Island Formation occurs at Bonnet Point.

From an economic perspective, the rocks of the Rhode Island Formation have little value as they are too soft for construction purposes. It is interesting, however, to observe these rocks in many of the stone walls in the northern portion of town. The Narragansett Pier Granite has been used locally but the varying color and texture of the rock have made extensive quarrying uneconomical.

**Surficial Geology**

Map 12 also shows surficial geology. Surficial deposits are sandwiched between the bedrock and the soils. Most of the surficial deposits in Narragansett are of glacial origin. Other deposits include wind deposited or aeolian materials and shoreline erosion and deposition. It is of interest to note that prior to the last glacier, the Narrow River valley was joined with the Saugatucket River valley. A buried valley extends southwestward from Pettaquamscutt Cove to Upper Pond and is filled with glacial deposits to a depth as great as 100 feet below sea level.

In Narragansett, 80% of the surficial deposits are glacial till, a poorly sorted and compact mixture of boulders, gravel, silt and clay. The till was deposited directly in front of the glacier, and is referred to as either ground moraine or end moraine. End moraine which covers most of Point Judith Neck marks the one time position of the edge of the ice sheet. Till is generally not a good source for municipal drinking water because its compacted materials will not allow groundwater to flow easily.

The remainder of the surficial deposits within Narragansett was laid down by the melting streams emanating from the margins of the retreating glacier. Outwash, as these deposits are called, is a well sorted mixture of sand and gravel. Outwash deposits in Narragansett are primarily located along the shores of Narrow River and along the shores and islands of Point Judith Pond. When of sufficient thickness and transmissivity, outwash deposits are excellent locations for municipal wells. In Narragansett, however outwash deposits are too near salt water to be of any substantial value as a drinking water resource. Withdrawal of water from these outwash areas results in the intrusion of salt or brackish water and the contamination of well water.
Soils

The Rhode Island Soil Survey provides comprehensive soil mapping and classification. It also characterizes the constraints and benefits of each soil type in relation to septic systems, construction, recreational use, agriculture and natural resource management. The majority of soils in Narragansett originated from glacial till (Map 12). These soils are highly compacted and contain soil layers that are nearly impervious to water. Low lying areas and localized depressions remain saturated throughout much of the growing season.

In better drained areas, these glacial till soils are characterized by slow permeability and seasonally high water tables. The use of these soil types are regulated under Section 4.5 (High Water Table District) of the Narragansett Zoning Ordinance. Approximately 73% of the soils in Narragansett present severe constraints for the efficient operation of septic systems.

Map 13 depicts the soil types included in the Town’s High Water Table Limitation Overlays “A” and “B,” which are soils with rapid percolation rates and soils constrained by other characteristics such as excessive stoniness or steep slopes. In the “A” district the water table is zero to 18 inches from the surface. High water table “A” soils often correspond to wetlands. In the “B” district the water table is 18 to 36 inches from the surface. Due to the high water table and low permeability of many of Narragansett’s soils, septic system functioning is impaired, foundations flood, and frost heaving disturbs roads and other improvements on the ground’s surface. High silt content, slopes and high water tables also make many of Narragansett’s soils extremely prone to erosion. Generally these soils cannot be developed without sewers and/or expensive drainage improvements. Town regulations restrict septic systems and in-ground fuel tanks in high water table areas.

Excessively permeable soils include those soils with percolation rates of five minutes per inch or greater. These out wash soils have sandy or gravelly subsoils and, due to the rapid percolation, may inadequately treat septic effluent. This is particularly true of nitrates, which in excess cause eutrophication of estuarine waters and pathogenic bacteria and viruses that may impact human health. CRMC requires denitrification septic systems for dwellings and businesses located within its Special Area Management Plans; however, the overriding requirement for denitrification is implemented through Rule 39 of the RIDEM Onsite Wastewater Treatment System (OWTS) regulations. Rule 39 requires denitrification systems for new or repaired OWTSs anywhere within the Critical Resource Boundary.²⁷

At this time excessively permeable soils are not covered by Section 4.5 of the Zoning Ordinance. It is recommended, however, that these soils be incorporated into the soil overlay district. The Town may also require a denitrification system with the granting of a special exception, staff review or variance under Section 4.4 (Coastal Resources Overlay District) or 4.3 (Coastal and Freshwater Wetlands) of the Narragansett Zoning Ordinance.

Map 13. Soil Constraints to Development
Wetlands, Hydrology and Floodplains

Wetlands

Wetlands, legally defined under Section 2-1-20 of the RI General Laws (RIGL), have special biological and hydrological characteristics. Wetlands serve several important functional values including, flood control, water purification, erosion control, groundwater recharge and discharge, increasing natural system productivity, providing spawning and breeding ground for fin fish and shellfish and providing and maintaining wildlife habitat and recreational opportunities. Because of these public benefits, wetlands have been deemed unsuitable for development and are protected to varying degrees by federal, state and local regulations and development restrictions. Locally, wetlands are regulated under the Town’s Coastal and Freshwater Wetlands Overlay District (Section 4.3 of the Narragansett Zoning Ordinance). Size limitations for Narragansett wetlands differ from those of the State regulations. Special reviews, variances and special exceptions are required for activities within the overlay district. The overlay includes a 100 foot buffer in sewered areas platted before August 7, 1989 and a 150 buffer in unsewered areas or sewered areas platted after the above date.

Map 14 shows local wetlands and other hydrological features. The State categorized wetlands into five principal types: marine, estuarine, riverine, lacustrine, and palustrine. Marine wetlands include the ocean and associated intertidal zone. Estuarine wetlands include those wetlands, mudflats, beaches and open water, associated with ecological systems that receive both fresh and saltwater inputs. Narrow River (Pettaquamscutt River) and Point Judith Pond are both classified as estuarine systems. Lacustrine wetlands are associated with fresh, open water areas greater than 20 acres in size. There are no lacustrine wetlands in Narragansett.

Palustrine wetlands are associated with small (less than 20 acres) fresh, open water areas, or they may be vegetated freshwater systems such as red maple swamps or cattail marshes. The five main wetland categories are further described according to the following vegetative types: forested (trees greater than 20 feet tall), scrub shrub (woody vegetation less than 20 feet tall) or emergent non-woody vegetation.

In Narragansett, as elsewhere in the state, there is often a correlation between soil types and the location of wetlands. Generally, soil types included in the High Water Table “A” District indicate the presence of wetlands. Freshwater wetland soils within the Town include, but are not limited to, Mansfield mucky silt loam (Ma), Carlisle muck (Co), Scarboro muck sandy loam (Sb), Walpole sandy loam (Wa), Ridgebury, Whitman and Leicester extremely stony fine sandy loam (Rf) and Stissing silt loam (Se). Salt marshes are most often associated with Matunuck mucky peat (Mk) soils. Narragansett is fortunate to have large expanses of salt marsh. These areas are vital to the continued health and productivity of our estuarine and offshore waters and are discussed in greater detail in the Coastal Resource section below.
Map 14. Hydrology
Watersheds
A watershed or drainage basin is an area within which all surface water runoff collects in natural and man-made channels, and then flows to the same principal water body. Some precipitation also percolates into the ground to either emerge in nearby ponds and wetlands or to infiltrate more deeply to replenish groundwater supplies. The high points between two watersheds are called a drainage divide. Precipitation falling directly on the divide is split between the watersheds on either side. The four main watersheds in Narragansett are Narrow River (2,848 acres), Point Judith Pond (2,337 acres), the Atlantic Ocean/Narragansett Bay (3,112 acres), and Wesquage Pond (783 acres). These principal watersheds are also depicted in Map 14.

Non-point source pollution describes a wide variety of activities and processes that contribute pollutants to our surface and groundwater. These include under functioning septic systems, erosion from construction sites, household hazardous waste that is improperly disposed of and runoff from residential lawns, roads and parking lots. The Town’s Stormwater Pollution Prevention Plan aims to reduce this pollution in runoff.

Since 1989 Narrow River has been closed to shell fishing. At times the bacterial counts have even exceeded the level considered safe for swimming. Sections of Point Judith Pond have suffered a similar fate.

Preventing non-point source pollution is far more effective and economical than retrofitting a site or undertaking in-pond or in-stream renovations. Reducing the volume of pollutants generated through source control techniques and land use and conservation practices within a watershed directly affect the water quality of the receiving water body. For example, dense development, the lack of sewers, the poor soils and the steep slopes of the Narrow River watershed have resulted in adverse water quality impacts.

The control of non-point source pollution entails many different approaches. Some such as detention basins are structural, while others involve modifying the way we do things, such as watering and fertilizing our lawns, using less toxic household cleaners, pumping our septic systems on a regular basis, etc.

Flood Zones
In Narragansett most flood areas are contiguous to the ocean or estuarine shoreline. In addition, inland flood zones may occupy small depressions and stream banks (see Map 15). During Narragansett’s history several catastrophic storms have caused great damage and loss of life within these areas.

Flood zones in Narragansett that are regulated by Section 4.7 of the Zoning Ordinance, include “A” zones and “V” zones. Both of these zones are considered to be Special Flood Hazard Areas (SFHA) within the 100-year floodplain with a 1% chance of flooding within any given year. The “V” or velocity zone is associated with wave action as well as flooding. Areas within the SFHA along the coast are subject to flooding from storm surges and or heavy rains associated with hurricanes or severe storms.
Map 15. Areas Prone to Flooding
There are specific construction requirements for any new or substantially improved structure located within an “A” or “V” zone. The most important of these requirements is the proper elevation of the structure. Specific requirements for construction are found in the State Building Code.

Most lending and mortgage institutions require that all structures, residential and commercial, located within the SFHA have flood insurance. In addition to the “A” and “V” zones there is a Coastal Barrier Resource Area (CBRA). Construction that complies with the building codes is allowed, however flood insurance is not available for any new or substantially improved structure, built or remodeled on or after Nov. 16, 1991.

National Flood Insurance Regulations administered through the Building Codes require adherence to special construction standards in these areas. The “V” zone, or velocity zone, is associated with wave action as well as flooding.

**Estuarine and Marine Resources**

The coastal resources in Narragansett comprise the waters of Point Judith Pond, Narrow River, Wesquage Pond, Rhode Island Sound, the mouth of Narragansett Bay and the shoreline ecosystems that border them. Narragansett’s coastal resources are its greatest economic and environmental assets. Point Judith Pond and Narrow River are among the most beautiful, productive and unique estuarine resources in the state. The 400+/- acres of salt marsh and the associated waters of these estuaries serve as breeding and spawning grounds for shellfish and fin fish.

Unfortunately, the same physical conditions that make these waters productive make them extremely vulnerable. Poorly flushed systems tend to retain pollutants that can contaminate shellfish and exterminate shellfish larvae. In addition, surplus nutrients from human activities, particularly nitrates, can result in an over production of phytoplankton and seaweed, which can smother spawning habitats and decrease oxygen and available light.

The tourism and fishing industries, which are vital to the town’s economy, depend upon the protection and enhancement of its estuarine and marine resources. As discussed under Economic Development, commercial landings in 2010 from Point Judith, Galilee and Jerusalem were 67.3 million pounds, with a value of $62.9 million. Further, it has been estimated that between 2001 and 2005, 66 different charter and party boats made 7,709 trips, carrying approximately 100,000 anglers. Recreational boating is also supported by the many marinas and private docks within Point Judith Pond and Snug Harbor.\(^\text{28}\)

Section 4.4 of the Zoning Ordinance, the Coastal Resource Overlay District, includes all areas within 200 feet of the inland edge of the coastal feature as defined by CRMC. The changes in the 1987 zoning ordinance, as well as Narragansett’s sewer policy are designed to protect the Town’s coastal resources. These Town regulations complement regulations enacted by CRMC with the adoption of the state’s Coastal Resources Management Plan and the Special Area Management Plans (SAMPs) for the Narrow River and Salt Ponds. State regulatory classifications of the waters and adjacent lands are depicted in Map 16.

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\(^{28}\) Ocean Special Area Management Plan. CRMC. 2011
Map 16. CRMC Water Use Categories
Point Judith Pond
Point Judith Pond is home to the state’s largest commercial fishing port, and serves as one of Rhode Island’s largest recreational boating centers. In 2008, Galilee was ranked 17th among U.S. fish ports for total value of landings in the country, and 21st in weight.

With approximately 1,300 slips and moorings it is the state’s third largest harbor and contains 5.3% of the state’s slips and moorings. The location and size of the breachway in Point Judith Pond has had a significant impact on the development of Point Judith Pond as a recreational and commercial resource. Without the breachway Galilee would not serve as an important fishing port. Breachway changes throughout time have also had a profound impact on the ecology of the Pond. Additional information on the ecology and history of Point Judith Pond may be found in An Elusive Compromise: Rhode Island Coastal Pond and Their People and in the Salt Ponds Special Area Management Plan. The existing Town boundary between Narragansett and South Kingstown represents the location of a former breachway at Jerusalem.

Point Judith Pond has a diurnal tidal regime with a range of about three feet. Hydrodynamically, the pond is characterized by two water regimes. Closest to its outlet at the breachway, water from Block Island Sound enters the lower pond as a progressive wave to a point approximately one-third of the way up the pond, to just below the islands. In the lower pond, flushing is rapid and the water is similar in clarity and salinity to the waters of Block Island Sound. North of this area a low-energy regime exists, where the tide resembles a standing wave. Water levels rise and fall due to the intrusion of a “salt wedge” of denser (saltier) ocean waters under the less saline estuarine waters. Minute plants, animals and fish larvae, collectively known as plankton thrive in this area due to limited wave action, a balanced input of land derived nutrients and a mix of fresh and saline waters. The combinations of conditions in this estuary and others like it, such as Narragansett Bay and Narrow River are crucial to the survival of virtually all of the important sports and commercial fisheries in the State. The State’s estuaries serve as breeding, nursery or larval stage habitat for over 70% of Rhode Island’s commercial fin fish catch. Forty-four species of fin-fish representing all life stages have been inventoried in Point Judith Pond. These include larval and are juvenile forms of commercially valuable species such as Atlantic menhaden, hake, scup, and winter flounder.

An analysis of the Pond Watchers’ data from 1985 to 1994 shows elevated coliform and fecal coliform reading in Point Judith Pond. Contamination in the pond is due to several factors including, failing and aging septic systems, improper waste disposal from boats, increased numbers of boats and increased urban runoff. The northern reaches of the pond are identified as impaired waters by RIDEM (2012) and do not support shellfish consumption. Much of the Point Judith Pond watershed is classified as “Developed beyond Carrying Capacity” by CRMC. Nitrates from septic systems and home lawns are a pollution issue that must be addressed.

Narrow River
Narrow River (formally Pettaquamscutt River), although similar in some aspects to Point Judith Pond, stands on its own as an exceptional water body. Geologically and hydrologically, portions of this estuary have the characteristics of a fjord, which distinguishes Narrow River from almost every other estuary in the continental U.S. The northern basins are as deep as 60 feet and contain very low levels of oxygen in the bottom portions of the water column. The remaining portions of the river are shallow, with an average depth of three to five feet. Flow is sluggish, except in constricted areas.
The importance of this resource as a significant natural area has been specifically identified by the Rhode Island Natural Heritage Program. Additionally, Narrow River is listed in Open Space Preservation in RI: An Inventory of Significant Sites and in the RI Landscape Inventory: A Survey of the Scenic Areas. The river has been identified by EPA as a priority wetland in New England and the Senator John H. Chafee National Wildlife Refuge has been created in the area from Pettaquamscutt Cove to Middle Bridge. Significant acreage has also been obtained in South Kingstown along the river.

CRMC’s Narrow River Special Area Management Plan, adopted in 1985, and revised in 1998 contains a wealth of information on Narrow River and outlines CRMC’s policies and regulations relative to development in the watershed. Narrow River has been classified by CRMC as a poorly flushed estuary. Poor flushing, steep slopes, and dense development have combined to make Narrow River extremely sensitive to stormwater borne pollution. RIDEM has four water quality stations on the river which they sample four to five times per year. Although Narrow River supports a modest shellfish population, the river was closed indefinitely to shellfishing in 1987 due to high bacteria levels. In 1993, the entire river, including Pettaquamscutt Cove remained closed to shellfishing. In the past, when water quality permitted, Narrow River supported a few small, commercial shellfish operations. Most shellfish, however, were harvested for personal consumption. In 1990, bacterial levels at some stations were measured at 15 to 60 times the acceptable shellfishing standards for total and fecal coliform and 4.5 to 6.1 times the acceptable coliform levels for swimming. Between 1980 and 1985, 45.6% of the samples collected by DEM exceeded state limits for fecal coliform. In 2012, RIDEM still lists Narrow River as impaired, not supporting shellfish consumption.

The extension of sewers to the Narrow River area and the implementation of the Tri-Town Narrow River Stormwater Management Plan are designed to improve the existing water quality of the river.

Wesquage Pond
Wesquage Pond is 60+- acre barrier pond located in Bonnet Shores. The pond has been divided by a causeway into an east and west basin. The west basin is less saline than the east basin and contains fish species such as pike, freshwater bass and perch. The inlet to the pond is located on the south side of the east basin on Bonnet Shores Beach. A wide band surrounding the entire pond is located in the 100 year flood zone (see Map 13). The flood zone is particularly pronounced on the southern and north eastern sides. Generally speaking, the soils immediately surrounding the pond are characterized by high water tables. The north and northeast shores of the pond are sewered.

Narragansett Bay and Rhode Island Sound
Narragansett’s bay and ocean shoreline varies from cobble/cliff to rocky shore to sandy beaches. The shoreline is exposed to ocean swells which enter Narragansett Bay from the south and southeast. Barrier beaches, composed of fine sand include Narragansett Town Beach and the Dunes Club extending to the inlet at Narrow River; Wesquage Beach at Bonnet Shores; Sand Hill Cove (Roger Wheeler State Beach) and Matunuck Beach. Scarborough Beach, stretching from Black Point to a point just north of the treatment plant is a gently sloping, fine-sand beach, backed by till upland. These beaches are among the most popular in the state and regularly attract tens of thousands of persons per season.

The water quality in Rhode Island Sound and the lower portion of Narragansett Bay is excellent due to few discharges and the high rate of flushing. The two exceptions to this are the outfalls for the Westmoreland Regional Treatment Plant which is located 1,500 feet east of North Pier and the Scarborough Treatment Plant which is located approximately 2,200 feet offshore. Prior to discharge, the
waste from both plants receives secondary treatment. The permits stipulate that the monthly average discharge must have 85% of the total suspended solids (TSS) and biological oxygen demand (BOD) removed. In no instance, however, may the average monthly discharge exceed 30 milligrams per liter (mg/liter) BOD or TSS.

In addition to swimming, the marine environment in Town also provides additional recreational and economic opportunities. These include surf fishing (principally for striped bass, bluefish and tautaug), surfing, and scuba diving. Commercial lobster trapping, fish traps and inshore otter trawling also make use of inshore areas.

Harbor Management Plan
The Harbor Management Commission was responsible for initially developing the Harbor Management Plan and reviews it annually. The Commission is currently undertaking an update to acknowledge completion of action items and to update existing ordinances. The Commission also provides guidance to town government, commissions, and boards during the decision-making process for locally proposed waterfront development projects. They also represent the Town before the State regarding decisions associated with state-proposed coastal development and other proposed waterfront projects.

The Harbor Management Plan provides goals and policies for the positive management of the town’s harbors and coastal bodies to balance diverse uses and provide public access. It is an administrative document and gives the authority to manage these resources to the Harbor Master and Harbor Management Commission. The primary objectives of the plan are:

Safeguard and improve water quality to ensure continued use for safe public contact associated with recreation, recreational and commercial fishing activities, and boating.
Gain the proper balance between preservation of natural environment and the diversity and intensity of activities.
Provide safe, equitable, and efficient distribution of private and commercial moorings, and ensure public health and safety are protected.
Provide a vehicle for continued discussion and coordination among the different authorities responsible for boating safety and enforcement.
Enhance the quality, maintenance, and management of coastal access locations and identify new areas, working collaboratively with environmental organizations and the Conservation Commission.
Recognize the historic and economic importance of the local fin and shell fisheries, and take appropriate measure to prevent encroachment on the impairment of these resources.

Inland Resources
Narragansett lies within a physiographic region known as the Narragansett Lowland, a relatively narrow band of land lying on the bay islands and the land west of Narragansett Bay. The area lies below the 200 foot elevation and has a climate moderated by ocean temperatures. This climate is distinctly cooler in summer and slightly warmer in winter. The climate is also moister than inland portions of the state.

In historical times, Narragansett was entirely cleared for agriculture, as is shown by the stone walls that run throughout the town. Since the gradual abandonment of agriculture in the last century, much of the open land has undergone regrowth with a succession from meadow to shrubland to red-maple and oak forest.
The landscape of Narragansett has a diversity of habitat types including salt marsh, transitional wetlands, fresh water wetlands, including red maple swamps, shrub swamps, marshes and small streams, and upland areas in various stages of clearing and regrowth to maple and oak forest cover (Map 17).

Of the upland areas, the wet meadows were abandoned first and are as a rule covered by a dense growth of water tolerant shallow-rooted species such as red maple, tupelo, and swamp white oak. Shrubs and other plants growing beneath the tree canopy are typified by such species as high bush blueberry, sweet pepperbush, sensitive fern, cinnamon fern, and green brier. Due to the very low relief and transitional wetland plants on these high water table soils, wetland boundaries are often difficult to establish.

Narragansett has over 1,100 acres of upland deciduous forest, four acres of mixed coniferous and deciduous forest and 1,400+/- acres of wetland forest. In addition there are 1,300 acres of upland deciduous shrubland. Much of this acreage is on properties participating in the Farm Forest and Open Space program and town-owned properties. The dominant tree in both upland and wetland forests in town is red maple (Acer rubrum). Other species of note include oaks (Quercus sps.) and tupelo (Nyssa sylvatica). The dominant street tree in Narragansett is Norway maple (Acer platancides). There are no significant coniferous resources in the Town of Narragansett.

Due to its diversity of habitat, Narragansett is considered a bird watching “hot spot.” An average of 316 bird species is seen in Rhode Island each year, and the overwhelming majority may be viewed within the Town boundaries. Species of common interest that inhabit the town year round include various waterfowl, pheasant, grouse, quail, dove, and crow.

Wild animals once considered rare or non-existent in Narragansett now seem to be making a regional come-back. Among these are the beaver, the fisher, and the porcupine. Species of common interest that inhabit the town include rabbits, squirrels, deer, woodchucks, raccoons, skunk, possum, and fox.

To date there is no comprehensive list of the flora and fauna of Narragansett. Where possible, particularly on Town-owned open space parcels, efforts to study characterize and inventory species and habitats should be made. Assistance from the State’s universities should be solicited.
Map 17. Inland Natural Resources
Rare, Threatened, and Endangered Species

The Rhode Island Natural Heritage Program (RINHP), an agency of RIDEM, provides a comprehensive inventory of the state’s biological diversity. The program is the only central data bank for RI’s rarest and most vulnerable plants, animals and ecologically significant natural communities. Due to limited staff and funding, however, it is not always possible to inventory all potential areas that might provide habitat to rare, sensitive or endangered species. As of 1990, there were 267 plant species listed by the RINHP in Rare Native Plants of Rhode Island.

RINHP has identified Narrow River, Point Judith Refuge (Twin Pond) and Matunuck Beach and Succotash Marsh as supporting rare, threatened, or endangered species. These three areas as well as the town’s other sensitive natural resources must be protected from further degradation and where possible enhance. Table 48 lists rare species occurring either currently or historically in Narragansett. General areas where these species might be found are located on Map 17.

Table 48. Narragansett’s Rare, Threatened and Endangered Species

<table>
<thead>
<tr>
<th>Genus/Species</th>
<th>Common Name</th>
<th>Status</th>
<th>Last Observed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ixobrychus exilis</td>
<td>Least Bittern</td>
<td>State Threatened</td>
<td>1984</td>
</tr>
<tr>
<td>Thamnophis sauritus</td>
<td>Eastern Ribbon Snake</td>
<td>State Concern</td>
<td>1985</td>
</tr>
<tr>
<td>Cicindela hirticollis</td>
<td>Beach-dune Tiger Beetle</td>
<td>State Threatened</td>
<td>1994</td>
</tr>
<tr>
<td>Limosella subulata</td>
<td>Atlantic Mudwort</td>
<td>State Concern</td>
<td>1995</td>
</tr>
<tr>
<td>Honckenya peploides</td>
<td>Seabeach-sandwort, Sea-purslane, Sea-chickweed</td>
<td>State Concern</td>
<td>2001</td>
</tr>
<tr>
<td>Ligusticum scoticum</td>
<td>Scotch Lovage</td>
<td>State Concern</td>
<td>2006</td>
</tr>
<tr>
<td>Liatris scariosa</td>
<td>Northern or New England Blazing Star</td>
<td>State Endangered</td>
<td>2007</td>
</tr>
</tbody>
</table>

STATUS. The status of each species is designated as defined:
State Endangered: Native species in imminent danger of extirpation from Rhode Island.
State Threatened: Native species that are likely to become State Endangered in the future if current trends in habitat loss or other detrimental factors remain unchanged.
State Concern: Native species not considered to be State Endangered or State Threatened at the present time, but are listed due to various factors of rarity and/or vulnerability.
OPEN SPACE AND OUTDOOR RECREATION RESOURCES

Protected open space and outdoor recreation resources not only add to the quality of life for local, year-round residences, but attract seasonal visitors and contribute to the local economy. They offer opportunities to swim, fish, boat, and observe diverse coastal and inland habitats. Access to these resources are protected and maintained by the Town, including the Narragansett Preservation Land Trust, the State, and non-governmental organizations like The Nature Conservancy and the Rhode Island Audubon Society. Some private owners have opened their properties to the public on a limited basis.

The Town has worked to establish greenbelts as a way to protect natural resources and important landscapes through the creation of contiguous green space. Each of the three planning districts, North End, the Central Area, and the South End, are inventoried to meet the needs of the residents for open space and recreational opportunities.

Protected Open Space and Outdoor Recreation Inventory

A detailed parcel inventory, by the Town’s three Planning Districts, is provided in Table 49, and shown in Map 18, Map 19, and Map 20. Included are federal, state, local, and private public open space and recreational resources, both passive and active. Properties participating in the Farm, Forest, and Open Space tax credit program are also listed. The Farm, Forest and Open Space Act allows land to be assessed at its use-value in order to encourage the maintenance of Rhode Island’s productive agriculture and forested land. Landowners in the program must agree not to develop or subdivide their land for a minimum of 15 years. In return for this commitment, the land is taxed at the lower “current use” rate. There is a monetary penalty for early withdrawal or disqualification from the program. Renewal in the program is required and lands participating in the program should not be considered permanently protected from future development.
Map 18. North End Protected Open Space, Outdoor Recreation and Farm, Forest & Open Space Program
Map 19. Central Area Protected Open Space, Outdoor Recreation, and Farm, Forest & Open Space Program
Map 20. South End Protected Open Space, Outdoor Recreation, and Farm, Forest & Open Space Program
Table 49 also provides information on the type of outdoor recreation or open space resource on each property. Open space is defined by the Rhode Island Department of Environmental Management as

“...undeveloped or partially developed real property owned by an agency of the State of Rhode Island that includes, but is not limited to, the following: conservation land, forested land, wetlands, recreation land, management areas, agricultural land, critical habitat, recreational areas, and corridor parks. Such lands may include amenities such as small parks, green buffers along roadways, or any open area that is owned by an agency. While many parcels are specifically designated as open space, open space may also refer to undesignated, undeveloped land with particular conservation or recreation interest.”

Types of uses in Table 49 are defined as:

- **Tot lot**: Small areas intended for children of preschool age.
- **Playground**: Primarily for children aged five to twelve. Includes an apparatus area for older children and a field and/or court area for games or informal play.
- **Playfield**: Provides space for recreation in forms requiring more area than is available in playgrounds, and often serves as a recreation center for several neighborhoods or school. Suitable for games such as football, soccer, baseball, and softball. Areas for court games are sometimes associated.
- **Community Park**: Area of diverse environmental quality. May include areas suited for intense recreation such as athletic complexes. May provide areas of natural amenities for outdoor recreation such as hiking, environmental education, agriculture, picnicking, horseback riding, etc. May be any combination of the above depending on site suitability and community need.
- **Neighborhood Park**: Area for intense recreational activities such as field games, court games, crafts, playground apparatus, skating, picnicking, etc; approximately 10 to 25 acres.
- **Mini Park**: Multi-purpose parks generally less than five acres in size. Similar in function, but smaller than a neighborhood park.
- **Village Green/Public Square**: Green space in the center of town that may be used for quiet activities as well as special events such as concerts and festivals. This green space visually ties together the downtown area.
- **Conservation Area**: An area designated for the protection and management of the natural/cultural environment with recreational use as a secondary objective.
- **Beach**: Waterfront area with sandy shore primarily used for sunbathing and swimming.
- **Coastal Access**: Areas providing physical or visual access to the water. Includes scenic overlooks, rights-of-way, boat landings, waterfront parcels. A more detailed inventory follows.
- **Campground**: An area providing space for tents, camper and/or motor homes and associated amenities. An overnight or day camp run for youth.
- **Marina**: A boat basin that has docks, moorings, supplies, and other facilities for boats.
- **Vacant**: Undesignated, undeveloped areas.
- **Military**: Areas owned by the military that provide open space and greenbelt value, but are restricted to use by the military. Portions of the property may be developed for military purposes.
- **Miscellaneous**: Item not otherwise specified.  

---

29 The various parcels owned by the Bonnet Shores Fire District, some of which are vacant, some of which provide active recreation and coastal access, have been grouped together under miscellaneous...
### Table 49. Outdoor Recreation and Protected Open Space and Landscapes

<table>
<thead>
<tr>
<th># ON MAP</th>
<th>PLAT &amp; LOT</th>
<th>PARCEL NAME</th>
<th>SITE TYPE</th>
<th>OWNER</th>
<th>ACRES</th>
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Narragansett Comprehensive Plan **Baseline Report**

ADOPTED September 5, 2017
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**SOUTH END PLANNING DISTRICT**

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</tr>
<tr>
<td>80</td>
<td>J 38; I-G 96; I-G 84; I-G 85; I-G 86</td>
<td>Galilee Bird Sanctuary</td>
<td>Conservation</td>
<td>State</td>
<td>180.67</td>
</tr>
<tr>
<td>81</td>
<td>R-2 376</td>
<td>Little Comfort Island Access</td>
<td>Conservation/Coastal Access</td>
<td>State</td>
<td>1.58</td>
</tr>
<tr>
<td>82</td>
<td>I-J 1; I-J 66</td>
<td>Succotash Management</td>
<td>Conservation</td>
<td>State</td>
<td>25.63</td>
</tr>
<tr>
<td>83</td>
<td>I-J 2</td>
<td>East Matunuck State Beach</td>
<td>Beach</td>
<td>State</td>
<td>3.28</td>
</tr>
<tr>
<td>84</td>
<td>I-G 71</td>
<td>Salty Brine State Beach</td>
<td>Beach</td>
<td>State</td>
<td>1.09</td>
</tr>
<tr>
<td>85</td>
<td>M 173</td>
<td>City of Providence Senior Center</td>
<td>Sr. Center</td>
<td>Private</td>
<td>2.34</td>
</tr>
<tr>
<td>86</td>
<td>N 175, J 35</td>
<td>Roger Wheeler State Beach</td>
<td>Beach</td>
<td>State</td>
<td>29.54</td>
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<tr>
<td>87</td>
<td>N 318</td>
<td>Point Judith Refuge</td>
<td>Conservation</td>
<td>State</td>
<td>16.2</td>
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<td>88</td>
<td>I-G 79</td>
<td>Galilee Beach Club</td>
<td>Beach</td>
<td>Private</td>
<td>1.87</td>
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<td>89</td>
<td>M 165; M 172</td>
<td>Point Judith State Park</td>
<td>Conservation</td>
<td>State</td>
<td>28.89</td>
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<tr>
<td>90</td>
<td>M 166</td>
<td>Army Corps Access</td>
<td>Coastal Access</td>
<td>Federal</td>
<td>2.5</td>
</tr>
<tr>
<td>91</td>
<td>K 460-17</td>
<td>Town of Narragensett Ocean Road</td>
<td>Vacant</td>
<td>Town</td>
<td>2.09</td>
</tr>
<tr>
<td>92</td>
<td>R-4 4-A; R-4 4-B; R-4 5-B; R-4 5-A</td>
<td>Audubon Society if RI</td>
<td>Conservation</td>
<td>Private</td>
<td>17.93</td>
</tr>
<tr>
<td>93</td>
<td>Y-2 1; Y-2 96; Y-2 101 AND 102; Y-2 105 THRU 110; Y-2 112 THRU 118; f</td>
<td>United States of America</td>
<td>Conservation</td>
<td>Federal</td>
<td>93.63</td>
</tr>
<tr>
<td>94</td>
<td>Y-1 7-1; Y-1 380-A; Y-1 7-5; Y-1 7-7 THRU Y-1 7-12</td>
<td>Town of Narragensett</td>
<td>Conservation</td>
<td>Town</td>
<td>20.91</td>
</tr>
<tr>
<td>95</td>
<td>Y-2 6</td>
<td>Town of Narragensett Foddering Farm Road</td>
<td>Conservation</td>
<td>Town</td>
<td>43.29</td>
</tr>
<tr>
<td>96</td>
<td>R-3 52</td>
<td>Town of Narragensett Marine Drive</td>
<td>Vacant</td>
<td>Town</td>
<td>0.26</td>
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<tr>
<td>97</td>
<td>I-J 64</td>
<td>Robinson, Thurston B</td>
<td>Vacant</td>
<td>Private</td>
<td>3.58</td>
</tr>
<tr>
<td>98</td>
<td>Y-1 238; Y-1 410; Y-1 457; Y-1 436; Y-1 118</td>
<td>Harbour Island Improvement Assoc</td>
<td>Conservation</td>
<td>Private</td>
<td>0.82</td>
</tr>
</tbody>
</table>
As shown in Table 50, of the 3,357 acres of recreation and open space in Narragansett, only 755 acres, or 22%, are owned by the Town. Table 51 further shows that of the town-owned 755 acres, 65% (493.8 acres) is located in the Central Area, 24% (183.8 acres) in the South End and 10% (77.3 acres) in the North End. Most of the Town-owned open space is included within the Town’s community parks (Table 52). These areas are multi-use facilities with open space included as an element of the overall management plan. Community parks include Bridgepoint Commons, Christofaro Park (North End playfield), and Sunset Farm.

### Table 50. Acreage and Ownership of Recreation, Conservation and Open Space Land by Planning District

<table>
<thead>
<tr>
<th>Owner</th>
<th>North Acres</th>
<th>%Total North</th>
<th>Central Acres</th>
<th>% Total Central</th>
<th>South Acres</th>
<th>%Total South</th>
<th>Townwide Acres</th>
<th>% Total of Town</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal</td>
<td>300.8</td>
<td>29%</td>
<td>41.3</td>
<td>5%</td>
<td>198.0</td>
<td>14%</td>
<td>540.2</td>
<td>16%</td>
</tr>
<tr>
<td>State</td>
<td>61.8</td>
<td>6%</td>
<td>7.0</td>
<td>1%</td>
<td>502.7</td>
<td>37%</td>
<td>571.5</td>
<td>17%</td>
</tr>
<tr>
<td>Town</td>
<td>77.3</td>
<td>7%</td>
<td>493.8</td>
<td>53%</td>
<td>183.8</td>
<td>13%</td>
<td>754.9</td>
<td>22%</td>
</tr>
<tr>
<td>Private</td>
<td>322.0</td>
<td>31%</td>
<td>298.8</td>
<td>32%</td>
<td>238.2</td>
<td>17%</td>
<td>859.0</td>
<td>26%</td>
</tr>
<tr>
<td>FFO*</td>
<td>291.3</td>
<td>28%</td>
<td>89.5</td>
<td>10%</td>
<td>247.4</td>
<td>18%</td>
<td>628.3</td>
<td>19%</td>
</tr>
<tr>
<td>Leased</td>
<td>0.0</td>
<td>0%</td>
<td>0.0</td>
<td>0%</td>
<td>3.3</td>
<td>0%</td>
<td>3.3</td>
<td>0%</td>
</tr>
<tr>
<td>Total</td>
<td>1,053.3</td>
<td>100%</td>
<td>930.4</td>
<td>100%</td>
<td>1,373.4</td>
<td>100%</td>
<td>3,357.0</td>
<td>100%</td>
</tr>
</tbody>
</table>

*FFO includes land undeveloped or subdivided by a land owner for a minimum of 15 years and can be withdrawn at any time.
Table 51. Ownership of Recreation, Conservation and Open Space by District as a Percentage of Town Total Acreage

<table>
<thead>
<tr>
<th>Owner</th>
<th>North Acres</th>
<th>% Total</th>
<th>Central Acres</th>
<th>% Total</th>
<th>South Acres</th>
<th>% Total</th>
<th>Town Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal</td>
<td>300.8</td>
<td>56%</td>
<td>41.3</td>
<td>8%</td>
<td>198.0</td>
<td>37%</td>
<td>540.2</td>
</tr>
<tr>
<td>State</td>
<td>61.8</td>
<td>11%</td>
<td>7.0</td>
<td>1%</td>
<td>502.7</td>
<td>88%</td>
<td>571.5</td>
</tr>
<tr>
<td>Town</td>
<td>77.3</td>
<td>10%</td>
<td>493.8</td>
<td>65%</td>
<td>183.8</td>
<td>24%</td>
<td>754.9</td>
</tr>
<tr>
<td>Private</td>
<td>322.0</td>
<td>37%</td>
<td>298.8</td>
<td>35%</td>
<td>238.2</td>
<td>28%</td>
<td>859.0</td>
</tr>
<tr>
<td>FFO*</td>
<td>291.3</td>
<td>46%</td>
<td>89.5</td>
<td>14%</td>
<td>247.4</td>
<td>39%</td>
<td>628.3</td>
</tr>
<tr>
<td>Leased</td>
<td>0.0</td>
<td>0%</td>
<td>0.0</td>
<td>0%</td>
<td>3.3</td>
<td>100%</td>
<td>3.3</td>
</tr>
<tr>
<td>Total</td>
<td>1,053.3</td>
<td>31%</td>
<td>930.4</td>
<td>28%</td>
<td>1,373.4</td>
<td>41%</td>
<td>3,357.0</td>
</tr>
</tbody>
</table>

* FFO includes land undeveloped or subdivided by a land owner for a minimum of 15 years and can be withdrawn at any time.

Table 52. Acreage of Town-Owned Land by Site Type

<table>
<thead>
<tr>
<th>Facility Type</th>
<th>Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conservation/ Open Space</td>
<td>256.6</td>
</tr>
<tr>
<td>Playground</td>
<td>2.6</td>
</tr>
<tr>
<td>Playfield</td>
<td>72.8*</td>
</tr>
<tr>
<td>Tot Lot</td>
<td>0.4</td>
</tr>
<tr>
<td>Public Square/ Village Green</td>
<td>4.7</td>
</tr>
<tr>
<td>Mini Park</td>
<td>5.3**</td>
</tr>
<tr>
<td>Community Park</td>
<td>351.7</td>
</tr>
<tr>
<td>Neighborhood Park</td>
<td>16.1</td>
</tr>
<tr>
<td>Beach</td>
<td>25.6</td>
</tr>
<tr>
<td>Coastal Access</td>
<td>0.9</td>
</tr>
<tr>
<td>Total</td>
<td>758.1</td>
</tr>
</tbody>
</table>

*Includes 3.287 acres of land leased by the town at George C. Playground  
**Playfields often have playground equipment as well. Total acreage is inflated by 24.5 acres as it reflects entire parcel boundary which would include land used for school buildings as well.

The federal government owns 540 acres town-wide. Fort Nathaniel Greene accounts for nearly one-quarter of this total acreage. This parcel, although primarily open space, is reserved for use by the military. Another small parcel of federal land (1.3+ acres) abuts the Harbor of Refuge and provides the Army Corps of Engineers access to the breakwater to undertake needed repairs. Much of the remaining 400 federal acres are located within the boundaries of the John H. Chafee Wildlife Refuge. The federal government continues to be interested in the purchase of additional acreage to expand the refuge.

Table 53 shows the relative amounts of private versus public recreation and open space in the Town of Narragansett as a percentage of the Town’s total land area. Private and semi-public groups such as the Audubon Society of Rhode Island, Point Judith Country Club, local homeowners associations, and the Dunes Club own 859 acres, or 26%, of the Town’s recreation and open space. Together with Farm, Forest and Open Space land, privately controlled recreation and open space accounts for 45% of the Town’s total.
Table 53. Relative Acreage of Narragansett’s Public and Private Recreation and Open Space

<table>
<thead>
<tr>
<th>Access</th>
<th>Acres</th>
<th>% Total Recreation Acreage</th>
<th>% Total Town Acreage*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Private</td>
<td>858.9</td>
<td>25.6%</td>
<td>9.7%</td>
</tr>
<tr>
<td>FFO</td>
<td>628.3</td>
<td>18.7%</td>
<td>6.9%</td>
</tr>
<tr>
<td>Public (federal, state &amp; local)</td>
<td>1,869.78</td>
<td>55.7%</td>
<td>20.5%</td>
</tr>
<tr>
<td>Total</td>
<td>3,317.6</td>
<td>100%</td>
<td>36.8%</td>
</tr>
</tbody>
</table>

*The total town acreage of Narragansett is 9,117 acres.

With the exception of Camp Varnum (34 acres), which is owned by the Rhode Island National Guard, the majority of the 493 acres of state-owned land in Narragansett is primarily designed to serve the seasonal influx of the regional population. Facilities include Scarborough, Roger Wheeler and Salty Brine state beaches, Fisherman’s Memorial Park, Black Point, and Point Judith Park (formerly Camp Cronin). Point Judith Refuge and the Galilee Salt Marsh function primarily as state wildlife sanctuaries. The Galilee Saltmarsh is also a major shellfishing area.

Over the years tidal flow to the southern portion of the Galilee Saltmarsh was blocked by the construction of the Galilee Escape Road. This severely degraded the wetland’s value as a wildlife resource. The Galilee Salt Marsh Restoration Project was a multi-million dollar effort with a number of contributing partners, including the RIDEM, the Rhode Island Department of Transportation, U.S. Army Corps of Engineers, Ducks Unlimited, U.S. Fish and Wildlife Service, and other agencies. Marsh restoration was completed and dedicated in 1997 and since then the results have been strong. In total, approximately 84 acres of salt marsh habitats and 14 acres of tidal creeks and ponds were restored.

Active Outdoor Recreation Facilities Inventory

Table 54 represents an inventory of Narragansett’s outdoor recreation facilities and the types of uses available. Most are located in the Central Area Planning District in close proximity to the schools.

It is evident from waiting lists, geographical distribution, scheduling problems, and public demand, that there are shortages of certain facilities.

Existing Recreational Programs

The Narragansett Parks and Recreation Department runs extensive and diverse programs for youth, adults, and seniors. Excluding special events, over 2,500 residents take advantage of them each year. Youth programming includes many organized sports like basketball, soccer, baseball, and tennis. There are also summer day-camp activities. Softball and basketball leagues are also offered to adults. Because of its unique location on the coast, the Parks and Recreation Department also run surfing lessons for all ages and has a junior lifeguard program in the summer for youth.

The Parks and Recreation Department sponsors a variety of programs for Narragansett Seniors. Programs are generally held in the Senior Center located on Mumford Road and include the following: special trips and events, arts and crafts, senior swim, line dancing, bowling, etc. The Center also houses community events such as blood drives, Insight programs (legally blind persons of all ages), “55 Alive” driving courses, tax preparation assistance, flu clinics, rabies clinics, elections, etc.
### Table 54. Inventory of Outdoor Recreational Resources

<table>
<thead>
<tr>
<th>Facility</th>
<th>Pool</th>
<th>Soccer</th>
<th>Tennis</th>
<th>Baseball</th>
<th>Softball</th>
<th>Basketball</th>
<th>Football</th>
<th>Fitness</th>
<th>Track</th>
<th>Skateboard</th>
<th>Multi Purpose</th>
<th>Playground</th>
<th>Picnic</th>
<th>Trails</th>
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<tbody>
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<td>3</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>Proposed</td>
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<td>No</td>
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<td>Yes</td>
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<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

F = Reg. Size  LL= Little League  T = T-Ball
** Beach Volleyball Summer Program: 4 courts  *** Used for Football Practice Field  **** Used for Soccer Practice Field
The Parks and Recreation Department also sponsors concerts at the Gazebo, the annual Rhode Island Philharmonic Concert on Narragansett Beach, a pumpkin festival, the Narragansett Triathlon, Festival of Lights, Galilee Fishing Tournament, and other events.

Community-Managed Programs
There are also a series of community run recreation activities, some of which have participants from South Kingstown as well as Narragansett. These leagues include the following: Narragansett Little League Association, South County Soccer, Pre-Teen Football, American Legion Baseball, and Cheerleading.

Narragansett Town Beach
Narragansett Beach, known for its smooth sand and surf, is one of the most beautiful beaches in the State. Owned and operated by the Town, it consists of a North and South Pavilion, the Beach Clubhouse, and the Cabanas. The beach is run as an enterprise account which means that the revenue generated from beach operations is used to pay beach expenses. The staff consists of 75 to 120 part-time seasonal employees.

The South Pavilion, the largest and most modern of the beach pavilions, was open to the public in 1990. This facility was constructed in order to provide quality services for daily beach-goers. Services include bathrooms, changing and shower facilities, concessions, seasonal lockers, information, administrative offices, and storage. The seasonal lockers provide the Town with revenue to supplement the sale of seasonal passes. The South Pavilion also functions as administration headquarters for all beach operations. The South Pavilion underwent major renovations from 2009 to 2011, addressing windows, ceiling, fencing, shingle, doors, and signage.

The North Pavilion is the last remaining structure constructed after the 1954 hurricane. Major renovations began in 2011 and were completed in 2012. Services offered within this facility include:

- 263 changing rooms
- Private shower area for those renting units
- Outdoor showers
- Bathrooms
- Information center
- Small equipment storage area
- Concession area
- First aid lifeguard room

The North Beach Clubhouse is a multi-use facility. During the 2006 calendar year this facility generated $50,000+ and was used on approximately 150 days. This facility offers a large main room with a maximum capacity of 100 people. There are also bathroom facilities and a full service warming/kitchen area. In 2011, exterior renovations were completed, including new roof, windows, shingles, and doors. The philosophy behind the operation of this building is to service the community and not to generate a profit. Alternative types of advertising and rate structures are being explored in order to operate this facility more economically.
State Beaches and Other State Recreational Facilities

The State, in the interest of all Rhode Islanders, has made substantial investments in the acquisition and improvement of beaches and other coastal recreation areas in Narragansett. These facilities include Scarborough, Roger Wheeler and Salty Brine State beaches, Black Point, Point Judith Park, Galilee Salt Marsh, Point Judith Refuge, and Fisherman’s Memorial Campground. As a result, Narragansett has some of the finest beaches in the State. As evidenced by the numbers in Table 55, these beaches are a major attraction for tourists as well as local and state residents. As such, the beaches are a major asset to local businesses.

Table 55. Attendance at State Beaches

<table>
<thead>
<tr>
<th>State Park/Beach</th>
<th>2009 Season</th>
<th>2010 Season</th>
<th>2011 Season</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salty Brine Beach</td>
<td>NA</td>
<td>26,278</td>
<td>35,594</td>
</tr>
<tr>
<td>Scarborough North 1</td>
<td>229,712</td>
<td>184,038</td>
<td>186,698</td>
</tr>
<tr>
<td>Scarborough North 2</td>
<td>NA</td>
<td>NA</td>
<td>18,662</td>
</tr>
<tr>
<td>Scarborough South</td>
<td>101,942</td>
<td>85,402</td>
<td>89,174</td>
</tr>
<tr>
<td>Roger Wheeler Beach</td>
<td>225,763</td>
<td>129,690</td>
<td>190,835</td>
</tr>
<tr>
<td>Total</td>
<td>557,417</td>
<td>425,408</td>
<td>520,963</td>
</tr>
</tbody>
</table>

Source: RI Department of Environmental Management

Coastal Access Inventory

Narragansett provides some of the best opportunities in the State for coastal recreation. These opportunities are varied and include swimming, sunbathing, surfing, hiking, fishing, shellfishing, birding, and boating. Access is provided to Narragansett Bay, Point Judith Pond, Narrow River, and the Atlantic Ocean. State and town beaches are the jewels of coastal recreation, but access is also provided through a myriad of other coastal rights-of-way (ROW). The Town has completed a comprehensive inventory of over 90 public, private and association controlled coastal access ways throughout Narragansett. Public access points are only shown on Map 18, Map 19, and Map 20.

It should not be inferred, however, that all such ROW’s should be used or developed. Not all of the sites listed are safely accessible. In addition, some of these sites due to environmental constraints cannot sustain heavy usage. Table 56 lists some of the attributes and limitations for public access ways and notes whether the site has been officially designated as a ROW by CRMC.

Table 56. Coastal Public Access Inventory

<table>
<thead>
<tr>
<th>Location</th>
<th>Ownership Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Narragansett Rd, Plat NB</td>
<td>Unaccepted Town Road Legal status undetermined</td>
<td>40 ft wide ROW, small path leading to steep drop and rocky shore</td>
</tr>
<tr>
<td>Indian Trail, Plat NK, Lot 4</td>
<td>PRIVATE, Homeowners Association</td>
<td>For use by plat residents and guests only.</td>
</tr>
<tr>
<td>Intersection Woodsia and Winterberry, Plat NF, Lots 6,7</td>
<td>PRIVATE, Pettaquamscutt Shores Homeowners Association</td>
<td>For use by plat residents and guests only.</td>
</tr>
<tr>
<td>Location</td>
<td>Ownership Status</td>
<td>Description</td>
</tr>
<tr>
<td>----------</td>
<td>------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Woodsia and Pettaquamscutt Lake Rd, Plat NF, Lot 326</td>
<td>PRIVATE, Pettaquamscutt Lake Shores Homeowners Association</td>
<td>For use by plat residents and guests only.</td>
</tr>
<tr>
<td>Lakeside Dr and Edgewater, Plat NF, Lot 608</td>
<td>PRIVATE, Edgewater Homeowner’s Association</td>
<td>For use by plat residents and guests only.</td>
</tr>
<tr>
<td>Lacey Bridge</td>
<td>State of Rhode Island</td>
<td>Fishing potential, restricted parking, dangerous curve.</td>
</tr>
<tr>
<td>Pettaquamscutt Ave</td>
<td>Town Accepted Road</td>
<td>Boat ramp and roadside parking, 60 ft wide ROW</td>
</tr>
<tr>
<td>Beach Ave, Plat NA, Lot 30-1 Landrie Memorial Beach</td>
<td>PRIVATE, Pettaquamscutt Terrace Homeowners Association</td>
<td>For use by plat residents and guests only.</td>
</tr>
<tr>
<td>Conanicus Rd, Plat NE</td>
<td>Town Accepted Road</td>
<td>Scenic, viewpoint, undeveloped, but potential for small boat ramp.</td>
</tr>
<tr>
<td>Searidge Dr, near Horizon, between Plat NB, Lots 48-26 and 48-27</td>
<td>PRIVATE</td>
<td>For use by plat residents and guests only.</td>
</tr>
<tr>
<td>South Ferry Rd, Plat NC</td>
<td>Town Accepted Road and adjacent state owned lot</td>
<td>Pebble beach, small parking area, fishing from Pier when research vessel not at dock.</td>
</tr>
<tr>
<td>Col. John Gardiner Rd between Anchorage and Bonnet Shores Rd</td>
<td>PRIVATE, Bonnet Shores Fire District</td>
<td>For use by plat residents and guests only.</td>
</tr>
<tr>
<td>Bonnet Battery on Col. John Gardiner, Plat NS, Lot 451</td>
<td>PRIVATE, Bonnet Shores Fire District</td>
<td>Historic significance, For use by plat residents and guests only.</td>
</tr>
<tr>
<td>Bonnet Point Rd Access way, Plat NS between lots 609 and 610. Located between Dunes Road and Col John Gardiner Rd</td>
<td>Unaccepted Town Road Legal status undetermined</td>
<td>Narrowing road leads to seawall and rocky shore. Platted as 30 ft access way, upper portion used as driveway by adjacent homes.</td>
</tr>
<tr>
<td>Dunes Rd, Plat NS, Lots 621 and 622</td>
<td>PRIVATE, Bonnet Shores Fire District</td>
<td>For use by plat residents and guests only.</td>
</tr>
<tr>
<td>Camden Rd, Plat NS, Lot 635</td>
<td>PRIVATE, Bonnet Shores Fire District</td>
<td></td>
</tr>
<tr>
<td>Harwich Rd.</td>
<td>Unaccepted Town Road Legal status undetermined</td>
<td>Limited potential as access way in current condition.</td>
</tr>
<tr>
<td>Burbank Ave.</td>
<td>Unaccepted Town Road Legal status undetermined</td>
<td>Limited potential as access way in current condition.</td>
</tr>
<tr>
<td>Lake Rd./Pwky Dr.</td>
<td>Unaccepted Town Road Legal status undetermined</td>
<td>Grasped lot adjacent to residence</td>
</tr>
<tr>
<td>Bonnet Pt. Rd./Causeway</td>
<td>Unaccepted Town Road Legal status undetermined</td>
<td>Potential for fishing, no parking.</td>
</tr>
<tr>
<td>Mettatuxet Road at South River Drive, Plat NG, Lot 237</td>
<td>PRIVATE, Mettatuxet Homeowner’s Association</td>
<td>For use by plat residents and guests only.</td>
</tr>
<tr>
<td>South River Dr, Plat NG, Lots 236 and 238</td>
<td>PRIVATE, Mettatuxet Homeowner’s Association</td>
<td>For use by plat residents and guests only.</td>
</tr>
<tr>
<td>Conanicut Ave at Arnold Road</td>
<td>PRIVATE</td>
<td></td>
</tr>
</tbody>
</table>

Narragansett Comprehensive Plan **Baseline Report**

ADOPTED

September 5, 2017
<table>
<thead>
<tr>
<th>Location</th>
<th>Ownership Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boston Neck Rd, Plat NI, Lot 9</td>
<td>State of Rhode Island</td>
<td>Overlook with view of Bay, currently no parking or shore access</td>
</tr>
<tr>
<td>North Cliff Drive</td>
<td>PRIVATE</td>
<td>Insufficient evidence presented at CRMC hearing to declare public. For use by plat residents and their guests only</td>
</tr>
<tr>
<td>Anawan Drive</td>
<td>PRIVATE</td>
<td>Insufficient evidence presented at CRMC hearing to declare public. For use by plat residents and their guests only</td>
</tr>
<tr>
<td>Middle Bridge</td>
<td>Towns of Narragansett and South Kingstown</td>
<td>Abutting land privately owned, fishing from bridge, private parking for nominal fee, bait shop, boat rental</td>
</tr>
<tr>
<td>Bridgepoint Commons</td>
<td>Town of Narragansett and USFWS</td>
<td>Access via Bridgepoint Drive, parking, scenic view, habitat protection area, no water access.</td>
</tr>
<tr>
<td>Sprague Bridge</td>
<td>RIDOT</td>
<td>Parking, fishing, scenic overlook, historic bridge, litter problem, boat ramp southwest side of bridge access from Starr Drive</td>
</tr>
<tr>
<td>Starr Dr. West</td>
<td>Unaccepted Town Road Legal status undetermined</td>
<td>Overgrown at this time</td>
</tr>
<tr>
<td>Row 200 feet to the north of Wood Dr.</td>
<td>PRIVATE</td>
<td>For use by residents of Wood, South, and Dale Road plat and their guests.</td>
</tr>
<tr>
<td>Canonchet Farm</td>
<td>Town</td>
<td>Trails through woods to Pettaquamsutt Cove, parking, picnicking, and museum.</td>
</tr>
<tr>
<td>Narragansett Town Beach</td>
<td>Town</td>
<td>Swimming, concessions, parking, changing facilities etc.</td>
</tr>
<tr>
<td>Riverside ROW (north) 40 foot ROW, located between lots 95 and 99 on Plat B-2</td>
<td>Town ROW</td>
<td>ROW leads to Town-owned lot 99B. Currently difficult to access; drainage easement on lot.</td>
</tr>
<tr>
<td>Riverside Drive (south) 20 foot ROW, located between lots 88 and 89</td>
<td>Platted Unaccepted ROW Legal Status Undetermined</td>
<td>Currently inaccessible. Road is not in ROW location.</td>
</tr>
<tr>
<td>Narragansett Sea Wall</td>
<td>RIDOT</td>
<td>Extends from S. Pier Rd to Narragansett Beach. Walking, views, fishing, roadside parking.</td>
</tr>
<tr>
<td>Westmoreland St</td>
<td>Unaccepted Town Road Legal status undetermined</td>
<td>Good potential if developed</td>
</tr>
<tr>
<td>Wandsworth St</td>
<td>Accepted Town Road</td>
<td>Good access with parking, small boat ramp</td>
</tr>
<tr>
<td>“Tucker’s Dock”</td>
<td>RIDOT</td>
<td>Small craft ramp, fishing, surfing site, parking lot</td>
</tr>
<tr>
<td>Wood Hill Rd</td>
<td>Unaccepted Town Road Legal status undetermined</td>
<td>Sandy beach, remnants of boat ramp</td>
</tr>
<tr>
<td>Wheatfield Cove Rd</td>
<td>Unaccepted Town Road</td>
<td>small sandy beach, currently no parking, small boat launch</td>
</tr>
<tr>
<td>Foddering Farm Rd</td>
<td>Accepted Town Road</td>
<td>small boat launch, currently no parking</td>
</tr>
<tr>
<td>Flintstone Rd (west end)</td>
<td>Unaccepted Town Road Legal status undetermined</td>
<td>currently used a driveway to a private home</td>
</tr>
<tr>
<td>Location</td>
<td>Ownership Status</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------------------</td>
<td>----------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Flintstone Rd (between Lots 45, 46)</td>
<td>Unaccepted Town Road Legal status undetermined</td>
<td>Grass strip 8 ft wide to Pt. Judith Road.</td>
</tr>
<tr>
<td>Flintstone Rd (east end)</td>
<td>Unaccepted Town Road Legal status undetermined</td>
<td>Possible to launch a small boat.</td>
</tr>
<tr>
<td>Sunset Farm</td>
<td>Town Property extends to Pt. Judith Pond</td>
<td>Trails need to be developed to facilitate access to water.</td>
</tr>
<tr>
<td>Hazard Ave</td>
<td>Unaccepted Town Road</td>
<td>Historical/scenic area, fishing, no swimming, dangerous rocks.</td>
</tr>
<tr>
<td>Newton Ave</td>
<td>Unaccepted Town Road</td>
<td>Historical/scenic area, fishing, no swimming, dangerous rocks.</td>
</tr>
<tr>
<td>Bass Rock Rd</td>
<td>Accepted Town Road</td>
<td>Historical/scenic area, fishing, no swimming, dangerous rocks.</td>
</tr>
<tr>
<td>Black Point</td>
<td>RIDEM</td>
<td>Fishing/hiking, scenic views, cliffs and bluffs. Park in state lot for Scarborough.</td>
</tr>
<tr>
<td>Scarborough State Beach</td>
<td>RIDEM</td>
<td>Swimming, concessions, parking, picnicking etc.</td>
</tr>
<tr>
<td>North Fort Rd</td>
<td>Public Easement along shore</td>
<td>Coastal walkway. Enter North Fort Rd and head north along shore or walk south from Scarborough. No access through subdivision.</td>
</tr>
<tr>
<td>Pocono Rd. Plat L between Lots 241 and 243</td>
<td>PRIVATE</td>
<td>For use by plat residents and guests only.</td>
</tr>
<tr>
<td>Glenwood Ave at High, Plat L. Lot 235</td>
<td>Town owned lot</td>
<td>Narragansett Pier Sports Fishing Association access</td>
</tr>
<tr>
<td>Glenwood Ave Plat L, Lot 234</td>
<td>Town-owned lot</td>
<td>Steep drop to water.</td>
</tr>
<tr>
<td>Third Street at Ocean Spray Ave</td>
<td>Unaccepted Town Road Legal status undetermined</td>
<td>Rip Rap shoreline, small sandy beach, outfall structure for street drain.</td>
</tr>
<tr>
<td>Nichol Ave</td>
<td>Unaccepted Town Road Legal status undetermined</td>
<td>Small pathway mowed at end of asphalt to an abrupt 6 ft scarp to cobble sandy beach; severe erosion, no easy access to the beach.</td>
</tr>
<tr>
<td>Conant Ave</td>
<td>Accepted Town Road</td>
<td>Rocky beach with drop-off to water. 8 ft concrete retaining wall and drainage structure. No easy access to the beach.</td>
</tr>
<tr>
<td>Calef/Louise Ave</td>
<td>Accepted Town Road</td>
<td>Paper street located north of Pt Judith Rd at Pole 8. Grass strip 50 ft wide by 140 ft long, extends east from X of Louise and Calef to a cobble beach.</td>
</tr>
<tr>
<td>Clinton Ave</td>
<td>Unaccepted Town Road Legal status undetermined</td>
<td>Narrow pathway, most of ROW covered in herbaceous, wetland plants.</td>
</tr>
<tr>
<td>Pilgrim Ave</td>
<td>Accepted Town Road</td>
<td>Rocky beach with drop-off to water.</td>
</tr>
<tr>
<td>Rose Nulman Park Plat M, Lot 162</td>
<td>Privately owned, but public access encouraged</td>
<td>5.5 acre parcel overlooking the ocean. Ample parking, benches, site of proposed park.</td>
</tr>
<tr>
<td>Light House</td>
<td>US Coast Guard</td>
<td>View, historic</td>
</tr>
<tr>
<td>Pt Judith State Park, Plat M, Lot 165, 172</td>
<td>RIDEM</td>
<td>Sand beach, parking, hiking, fishing, and good potential for a boat launch/marina.</td>
</tr>
<tr>
<td>Break-wall Access, Plat M, Lot 166</td>
<td>Army Corps of Engineers</td>
<td>Break-wall, sand beach, fishing, good potential for a boat launch/marina.</td>
</tr>
<tr>
<td>Location</td>
<td>Ownership Status</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------------------------------</td>
<td>------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Pt. Judith Wildlife Refuge</td>
<td>RIDEM</td>
<td>Protected wildlife refuge</td>
</tr>
<tr>
<td>Roger Wheeler State Beach</td>
<td>RIDEM</td>
<td>Sandy beach, shallow drop-off, large parking lot, concessions, etc.</td>
</tr>
<tr>
<td>Salty Brine State Beach Breachway</td>
<td>RIDEM</td>
<td>Sandy beach, restaurants, parking, seawall, fishing, scenic views.</td>
</tr>
<tr>
<td>Ocean Ave, Jerusalem</td>
<td>Town Accepted Road</td>
<td>Wide pathway to sandy beach.</td>
</tr>
<tr>
<td>West Wall</td>
<td>US Corps of Engineers</td>
<td>Breachway at Jerusalem and Galilee</td>
</tr>
<tr>
<td>East Matunuck State Beach (Narragansett/South Kingstown)</td>
<td>RIDEM</td>
<td>Parking, concessions, rest rooms and beach.</td>
</tr>
<tr>
<td>Succotash Saltmarsh (Narragansett/South Kingstown)</td>
<td>RIDEM</td>
<td>Canoeing, occasional nature tours, bird watching, park at state beach.</td>
</tr>
<tr>
<td>Succotash Marsh, Succotash Road Entrance, Plat I</td>
<td>Town dead ends in state land</td>
<td>Access to Succotash salt marsh and beach on Pt Judith Pond.</td>
</tr>
<tr>
<td>State Pier 4</td>
<td>RIDEM</td>
<td>Fin fishing, swimming, parking, and small beach.</td>
</tr>
<tr>
<td>State Pier 3, Galilee</td>
<td>RIDEM</td>
<td>Just north of the Block Island Boat, commercial fishing fleet, sightseeing tours.</td>
</tr>
<tr>
<td>Great Island Bridge Boat Ramp</td>
<td>RIDEM</td>
<td>Ample parking, small dock, well maintained boat ramp. No swimming,</td>
</tr>
<tr>
<td>Galilee Salt Marsh (Bluff Hill Cove Access)</td>
<td>RIDEM</td>
<td>Recreational shellfish area, bird watching, parking along Escape Road.</td>
</tr>
<tr>
<td>Fisherman’s Memorial Park and Salty Acres</td>
<td>RIDEM</td>
<td>Camping, shellfishing, nature programs, views.</td>
</tr>
<tr>
<td>Sunset Shore Drive at Green Acres Drive</td>
<td>Unaccepted Town Road Legal status undetermined</td>
<td>Grass lawn to pond.</td>
</tr>
<tr>
<td>Knowlesway Extension</td>
<td>Accepted Town Road</td>
<td>Potential for picnics, fishing, scenic viewing. Adjacent Town and State lots to the north have potential for future enhancement.</td>
</tr>
<tr>
<td>Pondview Rd</td>
<td>Private ROW</td>
<td>Access limited to plat residents and their guests only.</td>
</tr>
<tr>
<td>Meadow Rd</td>
<td>Private ROW</td>
<td>Access limited to plat residents and their guests only.</td>
</tr>
<tr>
<td>Durkin Drive</td>
<td>Unaccepted Town Road Legal status undetermined</td>
<td>Overgrown footpath.</td>
</tr>
<tr>
<td>Robertson Road</td>
<td>Unaccepted Town Road Legal status undetermined</td>
<td>Overgrown road end.</td>
</tr>
<tr>
<td>Marine Drive, Plat R-3, Lot 82</td>
<td>PRIVATE, owned by Great Island Improvement Association</td>
<td>For use by plat residents and guests only.</td>
</tr>
<tr>
<td>Penguin Drive, Plat R-3, between lots 14 and 15</td>
<td>12 ft extension off Town Accepted Road. Legal status undetermined</td>
<td>Difficult to access.</td>
</tr>
<tr>
<td>Seacrest Drive, Plat R-3</td>
<td>Town Accepted Road</td>
<td>Walking access to Pt. Judith Pond. Access chained.</td>
</tr>
<tr>
<td>Location</td>
<td>Ownership Status</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>-----------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Seacrest Drive, Plat R-4</td>
<td></td>
<td>Possible to hand launch a small boat. Access chained.</td>
</tr>
<tr>
<td>Starfish Drive, Plat R-2 at 304</td>
<td>Town Accepted Road</td>
<td>For use by plat residents and guests only.</td>
</tr>
<tr>
<td>Starfish Drive, Plat R-2 between Lots 316 and 317, 318</td>
<td>PRIVATE, owned by Great Island Improvement Association</td>
<td>Walking access to Pt. Judith Pond.</td>
</tr>
<tr>
<td>Island Road</td>
<td>Town Accepted Road</td>
<td>Sand and Pebble Beach</td>
</tr>
<tr>
<td>Mollusk Road, Plat R-2</td>
<td>Town Accepted Road</td>
<td>Sensitive environmental area. No development plans at present.</td>
</tr>
<tr>
<td>East Shore Rd, Plat R-2, between lots 13 and 14</td>
<td>40 ft wide extension off Town Accepted Road. Legal status undetermined.</td>
<td>Access to Pt Judith Pond, possible to hand launch a small boat.</td>
</tr>
<tr>
<td>East Shore Rd, Plat R-2, between lots 19 and 22</td>
<td>50 ft wide extension off Town Accepted Road. Legal status undetermined.</td>
<td>Access to Pt Judith Pond, possible to hand launch a small boat.</td>
</tr>
<tr>
<td>East Shore Rd, Plat R-2</td>
<td>40 ft wide extension off Town Accepted Road. Legal status undetermined.</td>
<td>Walking access to Pt Judith Pond.</td>
</tr>
</tbody>
</table>

*denotes CRMC designated ROW

Any discussion of public access ways must contain the caveat that in some cases the legal title to platted roads and ROWs is unclear. Prior to the adoption of formal subdivision regulations, persons were not obliged to formally dedicate roads before recording plats and selling lots. Indeed, the costs and responsibilities of road construction and design provided an economic incentive not to dedicate roadways. As a result, areas indicated as roads on plats often lack documentation of a formal dedication, despite the fact that they are used by the public and maintained by the Town.

In light of this common failing, Rhode Island courts, through several decisions, have established a general rule that the indication of a roadway on a recorded plat constitutes an implied public dedication. The courts have also ruled that roads are accepted by a town through public usage and/or the town’s actions to maintain the road over a period of 20 years. Municipalities may also move to formally accept existing roads.

The public ROWs listed in Table 54 fall into a range of certitude according to the following criteria:

- Property is owned by local, state or federal government and is used to access the shore.
- Platted, town-accepted streets or ROW’s that are used by the public for shoreline access.
- Platted, town-accepted streets or ROW’s that are not yet developed for public access.
- Platted streets or ROW’s that have not yet been officially accepted by the Town.

Conservation and Passive Recreation

According to Ocean State Outdoors: Rhode Island’s Comprehensive Outdoor Recreation Plan (Report Number 113, 2009), passive outdoor activities such as walking, bicycling, picnicking, jogging, and nature observation and photography rank statewide, in frequency, among the top ten outdoor activities. These
kinds of activities may take place in a variety of settings ranging from sidewalks in urban areas to dense woods. Many of the Town’s community parks and open spaces provide abundant opportunities for passive recreation.

Map 18, Map 19, and Map 20 show the interconnection of recreation and open space lands. From these maps it is obvious that state, private and Farm, Forest and Open Space properties provide valuable greenbelts between many of the Town’s facilities. In areas where public access is not permitted these lands still provide visual and environmental buffers that help to improve the quality of life for Narragansett residents. These protected lands help prevent the fragmentation of open space and provide many valuable environmental benefits including: preservation of habitat, natural conduits and barriers for flora and fauna, natural filters to protect ground and surface waters, sediment and nutrient sinks, and temperature regulation and flood protection.

Since the late 1970s, cluster zoning has preserved hundreds of acres of sensitive and strategic open space. Although not in full town ownership, such space is protected through perpetual conservation easements granted to the Town. Furthermore, such property, although not open to public use, remains on the tax rolls.

In the past two decades, the local, state and federal governments have acquired strategic and environmentally valuable parcels. The three most recent town acquisitions are Canonchet Farm (175 acres), Bridgepoint Commons (town portion 38 acres) and Sunset Farm (100 acres), plus the adjacent 48 acres (Rotelli). All have significant scenic and open space uses as a basic element of their management plans.

Major state open space holdings include Galilee Saltmarsh, Point Judith Park and Refuge, Black Point, Succotash Saltmarsh and the Sprague Bridge Overlook. In addition, the Federal government is currently expanding the 600-acre John H. Chafee Wildlife Refuge, approximately half of which will be located in Narragansett. Some active recreational uses, such as beaches, ball fields, golf courses and the like may provide associated open-space values.

Recreation and Open Space Facility Master Plans
The Town has prepared management and development plans for its principal recreation and open space sites, specifically Sunset Farm, Canonchet Farm, Christofaro Playground, The Towers, The Camp, and Bridgepoint Commons. Objectives are based upon the current need for active and passive recreation as assessed by the recreation inventory, public interest and current demand. Highlights of these plans are summarized below. Specific policies pertaining to each site appear in the goals and policies section of this Plan.

The development of any of the facilities and programs mentioned below is dependent upon the availability of state and local funds. Given the current economic situation, the Town will be seeking help from volunteer groups and nonprofit organizations for things such as trail maintenance, beautification, environmental and agricultural education, habitat improvement and program development. Pals of the Playground is one such group that was formed to raise money for a new playground at the Domenic Christofaro site. It is this spirit of cooperation and volunteerism that will enable Narragansett to both maintain and improve its recreation, agricultural, and open space programs.
Revenues obtained from the leasing of Narragansett’s fine public buildings such as the Towers, the North Beach Clubhouse, and the Kinney Bungalow at Sunset Farm could provide funds for recreational development and building maintenance. Necessary repairs to these facilities should be made so that income from them can be generated.

Domenic Christofaro Park
Christofaro Playground is a 36.4 acre recreational complex located in the North End of town. Although the area is primarily devoted to active recreation, approximately 25% of the site is still forested. On site facilities include four tennis courts, two basketball courts, one baseball field, and multiple soccer fields. There is a skateboard/in-line skate park that is need of replacement. In addition, the Park includes a playground area, picnic area, and concession stand and bathrooms.

BridgePoint Commons
Bridgepoint Commons is a 38.3 acre parcel purchased by the Town in 1989 with the assistance of State Recreation and Open Space Bond monies. An additional 26 acres adjacent to Pettaquamscutt Cove was purchased by the U.S. Fish and Wildlife Service as the first acquisition in the development of the John H. Chaffee Wildlife Refuge. The Town-owned portion of Bridgepoint Commons is divided into recreation and conservation areas.

Management objectives for the Bridgepoint Commons Conservation Area are as follows:

- Preserve and protect critical habitat along the shore of Narrow River (lands under federal jurisdiction).
- Maintain diversity and quality of habitat up-slope from Bridgepoint Drive.
- Retain and enhance the buffer function of the site relative to present and potential future pollution sources.
- Protect the archaeological potential of the site.
- Preserve and enhance scenic values from Boston Neck Road and on-site.

The Town mows designated areas throughout the spring, summer, and fall in order to maintain wildlife habitat and scenic vistas.

Recreation areas nearest the federal refuge will be developed as passive recreation. Future development for Bridgepoint includes a small picnic area, clearing along the road to better expose the stone walls, interpretive signage about Narrow River, installation of an entrance sign, and entrance landscaping. In addition, the State is investigating the possibility of the West Bay Bike Route which would cross the property. Reconstruction of stone walls has recently been completed.

Canonchet Farm
The Canonchet Farm site is made up of 160 acres of former farm land, forest and wetlands located west of Boston Neck Road in the vicinity of Narragansett Town Beach. This property was formerly known as the Robinson Farm in the 19th century and later as the Sprague Mansion homestead. Located on a hill known as “Little Neck,” the property was acquired by the Town in 1974 with financial assistance from State and Federal sources. Soil qualities, which were noted in a past plan, indicate much of the site to be environmentally constrained for structural development. Roughly 40 to 45 acres of the site can be identified as soils appropriate for development. These soils are predominantly located in the area.
around the South County Museum, the upper and lower meadows and the area of the Anne Hoxsie Lane parking lot.

Two official plans have been drafted since 1974 targeted to management of this site. In 1978, the “Recreation Master Plan – Canonchet Farms” was drafted by Albert Veri Associates, a consultant firm. This plan was superseded by the Towns own “Canonchet Farm Master Plan” drafted by the Community Development Director Clark Collins in 1993.

Today’s master plan was created using policies from these previous plans as a foundation and supplementing these with input from several sources. Integral to this process were the following documents:

- Report to the Town Council, March 2, 2009 – by the Canonchet Farm Master Plan Review Committee.
- A Master Plan For Canonchet Farm, October, 2009 – by the Narragansett Tree Society (as presented by Patrick Brady and William Bivona).
- Survey Results, 2010 – by the Narragansett Parks & Recreation Department.

Elements of the Plan

The following offers a summary of the master plan’s components and policies.

- Farm and Museum Development: The South County Museum is located on the Farm. The master plan accommodates its expansion and will be updated when and if this occurs.

- Nature Trails: Hiking trails are a major component of the Farm’s recreational program. In addition to serving as a highlight of the Farm, the trails also serve to provide a primary access corridor between activity areas.

- Habitat Clearing/Vista Enhancement: Two meadows, through managed clearing, offer views of historic stone walls and vistas of the property.

- Beech Grove: This area is located adjacent to the parking lot off Anne Hoxsie Lane and is a portion of the area targeted for the clearing of invasive vegetation and modest hiking trail expansion.

- Fishing Pier/Docks: Opportunities for fishing docks and small boating access (non-motorized) exist along Narrow River and Lake Canonchet.

- Linear Park: A linear park is envisioned along the Boston Neck Road frontage from the corner of Narragansett Avenue north to the town’s pump station, offering visibility external to the site.

- Access: Canonchet Farm is accessed from Strathmore Street. Access through the site is in the planning stages.

- Parking: The property currently contains an overflow parking lot for the Town Beach. While the
lot is needed, this parking lot will be eliminated. A new location for the overflow parking lot is under consideration.

- **Nature Center**: A nature center is proposed to enhance educational experiences at the Farm. Its location is in the planning stages.

- **Camping**: Camping is not permitted on the property, however, the Town will consider it on a case-by-case basis for organized scouts and military groups.

- **Site Management**: Future management of the Farm will be done through development of a commission.

- **Bike Path**: A bike path is anticipated through the site. Its alignment has yet to be determined.

- **Utilities**: Future utilities for proposed facilities will be constructed underground in accordance with the conditions of the grant acquisition program.

The plan contains additional elements unrelated to policies associated with the Farm. They are:

- **Reconstruction of the Carriage House**
- **Garden development in compliance with grant acquisition program in the area around the Carriage House and along Anne Hoxsie Lane, just north of the northernmost properties on Canonchet Way**
- **Directional and information signage throughout the Farm along proposed facilities**

**The Towers**

The Towers is a unique historical resource which recalls the popularity of Narragansett as a nineteenth century seaside resort. The three and a half story stone structure was designed by McKim, Mead and White of New York, one of the nation’s most prominent late nineteenth century architectural firms. It was designed as an addition to the Narragansett Casino, a rambling Shingle style structure which swept out to the side on grounds laid out by Frederick Law Olmsted, noted landscape architect and the designer of Central Park. The wooden part of the casino and the tower roofs were destroyed by fire in 1900. The Towers was rebuilt in 1908 following plans drawn by J. Howard Adams. In 1938 it was damaged by the hurricane and in 1965 by fire. Subsequently, the State of Rhode Island acquired the building and gave it to the Town. Restoration work began in 1974 and has proceeded sporadically since that time.

During the summer of 1992, The Towers were open to the public for the first time in 59 years. Visitors from 34 states and 12 countries as far away as Kenya and Venezuela toured The Towers. In addition, the building was available for private lease and booked every weekend. Approximately 1,660 people attended a total of 16 special events. The hiring of a Towers Coordinator greatly facilitated the successful first season.

Improvements constructed to date at The Towers include:

- **New roof**
- **New addition and associated historical museum, elevator and stair tower**
• First floor heating
• Sprinkler system
• Interior lighting
• Exterior holiday lights replaced with safe, low energy system
• Fireplace and chimney repairs
• Roof repair from Hurricane Bob and 1991 Nor’easter
• Men’s and women’s rest rooms second floor west tower
• Heating system
• Cupola reconstruction
• Balcony reconstruction
• Window replacement/reconstruction, (ongoing)
• Warming kitchen
• Relocation of fountain to Casino Courtyard

Sunset Farm
Sunset Farm is a unique resource that represents a vestige of Narragansett’s past. The Anthony Farm, as it was previously called, was part of the Point Judith Neck Lands divided among several Narragansett Planters during the 17th and 18th centuries. Its fertile grounds provided lush pasture for dairy cattle, horses and sheep. The land was used as pasture for several centuries, but always as part of another farm. It was not until James W. Anthony purchased the property in 1850 that it became a self-contained homestead. The farmhouse and main barn were constructed shortly after 1862. In 1897, the property was sold to Francis S. Kinney, a successful tobacco magnate and a member of the fashionable Narragansett Pier summer colony.

It is reported that Kinney purchased this land following a disagreement with the management of Point Judith Country Club, which was established in 1886 on former Anthony land across Point Judith Road. Kinney purchased the site because of its proximity to Point Judith Country Club for use as a private clubhouse and for post polo game parties. The small red barn with weatherboard siding was built by Kinney to house polo ponies. The Kinney Bungalow designed by architects P.O. Clarke and A.R. Spaulding was built in 1899 and modeled after an East Indian bungalow.

The property was purchased by Mrs. Irving Chase, another Narragansett Pier summer resident, who left it to her daughter Mrs. Lucia Chase Ewing, co-founder of the American Ballet Theater Company. The Kinney Bungalow was used as a summer practice studio by the members of the dance company. Ballet bars still accentuate the upstairs balustrade. The property was used by the Red Cross during World War I and as a communications post for Fort Nathaniel Greene during World War II.

The property today represents the last sizeable farmland acreage on Point Judith Neck that has survived from the days of early settlement. The farmhouse, barn and land serve as a reminder of Narragansett’s agricultural heritage. The Kinney Bungalow represents the transition from an agricultural economy to a fashionable summer resort. Sunset Farm has been found eligible for inclusion in the National Register of Historic Places. A formal nomination process has been initiated in order to secure this designation and any associated grants.

The Town purchased the property in March of 1991, with assistance from the Trust for Public Lands, $900,000 from State Open Space and Recreation Grants and $1.2 million from a local referendum.
1993 an additional 43 acres were obtained through the generosity of the Rotelli Family, the Champlain Foundation and The Nature Conservancy. The property includes many diverse habitats including a large expanse of saltmarsh, coastal shrub community, streams, wetlands, prime agricultural land, old field, and upland forests.

Prior to acquisition, the property was divided into four management parcels. This was done to avoid use conflicts and to ensure that appropriate grant restrictions would be placed on the land and that no grant restrictions would be placed on the buildings. The Narragansett Land Conservancy Trust is responsible for the management and development of the property.

**Parcel A, Recreation**
This 41 acre parcel will be used for active recreation and agriculture. Recreational uses will be designed to maintain the property’s visual and historic integrity and will be compatible with existing and planned agricultural activities.

It is the intent of the Narragansett Land Conservancy Trust to support the development of sustainable agriculture and related educational programs at Sunset Farm. For the past decade, the site has been actively farmed. Various species of plants and flowers are grown and sold at the farm. The site also hosts a number of animals including chickens, goats, and cattle in excess of 40 heads.

**Parcel B, Buildings**
Parcel B includes all of the buildings and 7.26 acres of land. This parcel was not purchased with RIDEM funds and is therefore not restricted by any grant conditions. Management of the parcel, however, will complement the goals and intended uses on adjacent parcels. The farmhouse is the private residence of the farm manager. All other buildings are open to the public and will provide a base of operation for recreational and educational activities. The Kinney Bungalow could serve as a site for a much needed future community center. The Kinney Bungalow has recently undergone a complete renovation including bathrooms, new kitchen, and rehabilitation of second floor function room. The building is currently available for renting for special events held between April and October.

**Parcel C, Open Space and Passive Recreation**
The 58.8 acres of Parcel C provide outstanding opportunities for environmental education and research and passive recreation. Possibilities include self-guided nature trails, interpretive programs, habitat enhancement, equestrian trails, wildlife demonstration programs, tree or shrub nursery, etc. Although this sub-parcel contains a variety of habitats, interspersion is low. Due to its soils and hydrology, the area is well-suited to habitat improvement and wildlife management.

**Parcel D, Conservation Easement**
This parcel is under private ownership. The Land Trust retains a conservation easement on this property which enables the homeowner to build one single family home on 13.85 acres. Sighting controls and other restrictions ensure that the environmental and scenic integrity of Parcel D will be maintained.

**Sprague Park**
Sprague Park, which covers 15 acres adjacent to Narragansett Pier, is the centerpiece of the Town’s active recreation program. It provides playing fields and accessory buildings for major organized sports such as football, baseball (adult and youth facilities) and tennis while also providing playgrounds for summer day camp, picnicking, and special events. The park also includes a Community Center, war
memorial and an attractively maintained landscape. In addition to accommodating town recreation programs, high school sports programs make use of the tennis and baseball fields.

As one of the Town’s principal community parks, it would be desirable to continue further facility enhancements. Unfortunately access to more developable land adjacent to Sprague Park on Canonchet Farm is made difficult by areas subject to storm flowage and wetlands.

The renovated building at the Sprague Tennis Courts has a meeting room which is available for rental. Small group meetings or activities are suited well for this building as the room can comfortably hold up to 40 people.

The Camp is located on Clarke Road and is approximately 13 acres. Once completed, facilities at the Camp will include: an aquatics building and municipal pool (closed in 2012), three tennis courts, an outdoor basketball court, multi-use fields, and a recreation and gymnasium room. In addition to active recreational facilities, the Camp also houses the Parks and Recreation Department’s administration offices, the recreation and education building, and the windmill house, and storage cabins. The Department is presently requesting a work shop with the Town Council to provide guidance on the future plans and commitment for funding to repair the Recreational Building, tennis courts, basketball court and possible replacement of the pool.

Assessment/Needs Analysis
Narragansett had experienced a rapid and sustained increase in population over the past five decades; however, the 2010 U.S. Census shown a slight 3% drop, the first since the 1930s. When doing the recreation needs assessment, it is important to look at existing and projected population in order to be able to adequately assess recreational needs.

Total acreage alone is not an adequate criterion for judging whether or not a community’s recreational needs are being met. Age, disposable income, education, ethnic background, geographical location, attitudes toward the environment, and available leisure are important factors used in determining recreational needs. The distribution of recreation sites in relation to population, the group to be served, the type of recreational activity, seasonal fluctuations, ability to maintain existing facilities, and the physical capacity of the site should also be considered.

According to the National Recreation, Park and Open Space Standards and Guidelines, each community is unique due to geographical, cultural, climatic, and socioeconomic differences. It is imperative, therefore, that each community evaluate and modify these guidelines according to their own individual needs.

Although the town does not specify an acreage standard, at a minimum town-owned recreation and open space acreage should not drop below the 1990 per capita ratio of .0249 acres of combined recreation and open space per person. The Town’s current rate is .17 acres per capita. As the population grows, additional land must be acquired and existing facilities more fully developed in order to maintain current per capita acreage and facility ratios.
Athletic Fields Assessment
Initiated by the Narragansett School Department in 2011, the Town of Narragansett Athletic Fields Assessment and Master Plan reviewed both town- and school-maintained athletic fields. Condition and usage were evaluated and short-term maintenance and repair recommendations were made for each field. The assessment concluded that 11 of the 18 fields evaluated exceeded the usage goal of 200 scheduled team uses per year. Focusing on town-maintained fields, Field 3 of Christofaro Park (baseball) and Sprague Park (baseball) both exceeded 400 uses per year, where proposed uses per year were 200 and 225 respectively. The baseball diamond at Christofaro Park was characterized as being in fair to poor condition, noting the infield needed grading, the outfield has weak turf growth density and significant turf loss due to wear from soccer played in the outfield, and planking on spectator seating was deteriorated, among other issues. The baseball diamond at Sprague Park was characterized as being in generally good condition. Noted conditions included several portable spectator seating units needing replacement, a few localized areas within the outfield were devoid of turf, and the pitcher’s mound needed minor regrading, among others.

The lower Field 2 at Christofaro Park (multi-purpose) was reported to have 396 uses per year and 200 were recommended. The multi-purpose field was characterized as being in fair condition. The assessment noted that the field needed a rest period due to overuse and high demand, turf growth density was weak and several areas were devoid of turf, and field and spectator seating was not compliant with the Americans with Disabilities Act.

2011 Recreation Department Survey
In 2010, the Parks and Recreation Department mailed a survey to 2,500 randomly selected addresses. In each planning district, the North End, Central Area, and South End, roughly 850 residents received surveys. Approximately 690 surveys, or 27%, were returned. The beginning of the survey asked some demographic questions. Almost half of the survey respondents lived in the North End (48%), and 21% lived in the Central Area, and 32% lived in the South End. Nearly 94% owned their own homes, and 31% had total family incomes greater than $150,000.

Overall, when asked if they were currently satisfied with the programs offered by the town, 289 answered “yes,” and 18 stated “no.” Respondents were asked their level of satisfaction on recreational programs and facilities. As shown in Table 55, most are generally satisfied with the quality and variety of programs and they meet the needs of residents.

Table 55. Level of Agreement with Statements Regarding Recreational Programs and Facilities

<table>
<thead>
<tr>
<th>Statement Posed</th>
<th>Strongly or Slight Agree</th>
<th>Neutral</th>
<th>Strongly or Slightly Disagree</th>
</tr>
</thead>
<tbody>
<tr>
<td>I am satisfied with the quality of community recreation programs</td>
<td>46.0%</td>
<td>38.7%</td>
<td>15.2%</td>
</tr>
<tr>
<td>I am satisfied with the variety of community recreation programs</td>
<td>44.0%</td>
<td>35.7%</td>
<td>20.2%</td>
</tr>
<tr>
<td>I am satisfied with the variety of park recreation programs</td>
<td>52.2%</td>
<td>31.1%</td>
<td>16.7%</td>
</tr>
<tr>
<td>The fees for recreational programs are affordable</td>
<td>48.3%</td>
<td>39.4%</td>
<td>12.2%</td>
</tr>
</tbody>
</table>
More park and recreation areas should be designated to cater to the needs of teenagers in our area  & 53.4%  & 33.0%  & 13.6%  
I am satisfied with the quality of park and recreation facilities  & 54.6%  & 29.7%  & 15.8%  
Most playgrounds in our area meet the needs of our young children  & 61.4%  & 30.3%  & 8.3%  
Parks and recreation areas need better lighting to make them safer and user friendly  & 51.2%  & 37.0%  & 11.8%  
The quality of maintenance of the town been and facilities is acceptable  & 55.4%  & 19.4%  & 25.2%  
I am satisfied with the cost of facility rentals  & 33.0%  & 42.2%  & 24.8%  
I am satisfied with the cost of a beach pass and parking pass  & 42.4%  & 22.2%  & 35.4%  
I am satisfied with the recreational programs associated with the town beach  & 38.9%  & 40.1%  & 21.1%  
The town beach should have year round rest room facilities  & 55.8%  & 15.4%  & 28.8%  

Additional comments to this question focused on the need for better maintenance, including keeping areas clean of litter and debris, as well as extended use of restrooms into the fall months. Other comments considered the fees associated with facility rental and usage, including the beach, and were at times conflicting. Some contended that they were too high, particularly for the elderly, and others stated they should be raised. There was also a statement that non-residents should be charged higher fees.

The survey also asked respondents to list additional facilities or programs that they would support on four larger parcels that the Town currently owns: Bridgepoint Commons, Canonchet Farm, Sunset Farm, and The Camp. Many had similar responses. For Bridgepoint Commons, most respondents did not know where this property was located (61 of 113 comments).

Activities commonly supported were a dog park (8 comments), being left as it is (7 comments), nature and walking trails (7 comments), and sports/multipurpose fields (6 comments). For Canonchet Farms, most commented that they would support nature, walking, hiking, or fitness trails (43 of 168 comments). Other common activities that would be supported included leaving it the way it was (21 comments), bike path (19 comments), educational and children’s programs (12 comments), and polo (8 comments). At Sunset Farms, most commented that they would support leaving it the way it is (22 of 124 comments). Others commonly supported walking, fitness and hiking trails (13 comments); educational classes (12 comments); and music, art, and theater programs (10 comments). Finally, for The Camp, most commenters did not know where the facility was located or had no knowledge of it (19 of 113 comments). Others supported leaving the site the way it is (12 comments), covering the pool for year-round use (9 comments), activities for teens (7 comments), and expanding pool hours to after 4:30PM and on weekends (5 comments).
The survey also asked residents to consider which programs should be expanded and for which age groups. A majority responded that the Town should increase trips and tours, fitness programs, concerts, and educational programs for adults over 55. There was also strong support for fitness programs for adults between 26 and 54 as well as aquatic programs and social activities for adults over 55. An increased need for more programs for teens between 13 and 17, such as sports, social activities, environmental education, and fitness programs, was also expressed. There was also high support for aquatic programs for elementary school children. Respondents also suggested new programs or more specific types of programs, such as yoga, Zumba, and Tai-Chi for adults, bike paths and bike lanes, tennis, swimming, and art classes.

The survey looked to find out why residents might not participate in town-sponsored programs. As shown in Table 56, most respondents did not know what was available and there was a lack of information on programs.

### Table 56. Survey Responses for Not Participating in Town Recreation Programs

<table>
<thead>
<tr>
<th>Reason for not participating</th>
<th>Number of respondents</th>
<th>Percentage of total responding to this question</th>
</tr>
</thead>
<tbody>
<tr>
<td>No interest in programs offered</td>
<td>115</td>
<td>9.8%</td>
</tr>
<tr>
<td>Unable to get to program</td>
<td>24</td>
<td>2.0%</td>
</tr>
<tr>
<td>Feed are not affordable</td>
<td>37</td>
<td>3.2%</td>
</tr>
<tr>
<td>Do not know what’s available</td>
<td>327</td>
<td>27.9%</td>
</tr>
<tr>
<td>Lack of time</td>
<td>131</td>
<td>11.2%</td>
</tr>
<tr>
<td>Don’t have anyone to participate with</td>
<td>53</td>
<td>4.5%</td>
</tr>
<tr>
<td>Times and facility locations not convenient</td>
<td>59</td>
<td>5.0%</td>
</tr>
<tr>
<td>Inadequate amenities (bathroom/seating areas, etc.)</td>
<td>77</td>
<td>6.6%</td>
</tr>
<tr>
<td>Do not feel safe</td>
<td>9</td>
<td>0.8%</td>
</tr>
<tr>
<td>Lack of information on programs</td>
<td>341</td>
<td>29.1%</td>
</tr>
</tbody>
</table>

Respondents were asked to check off the facilities the Town should consider constructing or expanding. The most popular were:

- Bike/walking paths (361 respondents)
- Indoor swimming pool (273 respondents)
- Additional restroom facilities (271 respondents)
- Additional nature trails (236 respondents)
- Dog exercise field (201 respondents)
- Indoor/outdoor ice skating facility (191 respondents)
- Youth program center (180 respondents)

Finally, in light of potential budget cuts, the survey asked if respondents would be willing to pay more for recreational programs. 55% responded that it would depend on the amount of the increase, 25% said no, and 17% indicated that they would be willing to pay more.
Recreation Needs
The following items were considered in assessing need and in the development of local recreation and open space standards for town-owned land and facilities:

- The needs and desires of the citizens as gathered from a variety of public forums.
- The inventory and condition class analysis of all existing parks and recreational facilities be undertaken in accordance with the “State of RI Outdoor Recreation, Conservation and Open Space Inventory Form.”
- Time-travel distance of each facility as it relates to the service area.
- Demographic, social, ethnic, and economic profiles of the community.
- Local attitudes, traditions, customs, preferences, demand, participation characteristics, level of use, scheduling conflicts, etc.
- The degree to which land within the individual properties is undevelopable due to limited access, wetlands, soils, etc.
- New trends, patterns and activities in recreation.
- Tourist versus resident use of town facilities.
- Parks and Recreation Department use of school property as scheduling permits and vice versa.
- Maintenance requirements.
- Responses to the 2011 Recreation Survey
- Results of the 2012 Field Assessment

Overall, Narragansett has acquired properties to ensure that recreational, conservation, and open space opportunities will continue to be available to residents. In the 1985 Recreation Plan, it was concluded that there was an immediate need for playground and community park facilities in the North and South Ends. This need still exists. The following summarizes the future need for indoor and outdoor recreational needs.

**Indoor Recreation Needs**
An indoor gymnasium is the Town’s greatest indoor recreational need. The existing Community Center is too small to service a gymnasium and functions primarily as a Senior Center. The Center is well-maintained, but improvements such as room dividers, handicap access improvements and floodlights should be considered. With available gym space at a premium, time allocations have been cut for at least two adult programs. There is a demand for adult basketball, volleyball and similar programs, but gym space is not available. This lack of space negatively impacts all other indoor sports programs for both youth and adults. The potential of constructing an inter-municipal sports complex with neighboring towns should be investigated.

**Outdoor Recreation Needs**
The immediate needs for outdoor recreational facilities include the following:

- Regulation baseball (children and adult-based ballfields)
- All purpose festival field
- Improvements to existing playgrounds to make them accessible to persons with disabilities
- Neighborhood-based recreation including tot lots, playgrounds and basketball courts
- Soccer field
- Bike paths
• Skateboard facilities at Christofaro Park needs replacement

Regulation Size Baseball: Presently the Town has two regulation sized baseball fields which are located at Sprague Park and Narragansett High School. The number of groups competing for playing time at Sprague Park has sorely taxed the capacity of this field. Presently this field accommodates the Narragansett High School, Narragansett Sr. Little League, and Adult Men’s Leagues. The second regulation field, located at the high school, is not “state of the art” but it is playable.

Courts: Narragansett’s 16 tennis courts are in good condition. There is a current need for an additional basketball court at Sprague Park and Christofaro Park. The Town’s community parks provide potentially suitable locations.

Playgrounds: There is a demonstrated need for some up-grading of our existing facilities in terms of replacing old equipment that, by design, is not consistent with recently enacted safety standards. In addition, accessibility as mandated under the Americans with Disabilities Act (ADA) must also be provided.

Neighborhood-Based Recreation: The lack of neighborhood-based recreation is particularly evident in the North End Planning District, which has a high percentage of children. Tot lots and basketball courts in neighborhood areas would also help to fill the need. All future improvements should be sensitive to the needs of persons with disabilities and conform to the requirements of ADA.

Bike Paths: The South County Bike Path follows the right-of-way of the former Narragansett Pier Railroad. It begins at the Kingston Railroad Station and passes through the Great Swamp, Peace Dale and Wakefield before terminating at the ocean front at Narragansett Pier. To date, a bicycle path has been constructed from Kingston Station to Route 108 Crossing and extends into Narragansett at the Narragansett Elementary School. Preliminary designs are underway for extension to the South County Museum. In addition, planning and design work is underway on a bike path along the abandoned Sea View Railroad TOW, extending from Goddard Park in Warwick to Point Judith through Narragansett.

The West Bay Bike Path has the potential for providing significant transportation benefits to residents and visitors of North Kingstown and Narragansett. The two towns recognized the need to improve bicycle travel between the towns and requested that RIDOT investigate the feasibility for a continuous bike path. The southern terminus of the proposed trail would be the State Pier at Galilee where ferry service to Block Island is available. From Galilee a route will be sought to bring cyclists north into the Narragansett Pier.
Narragansett Population Trends Report

2010 US Census Data Compilation for Narragansett, Rhode Island

Narragansett Department of Community Development

Population Trends Report

June 2012

Narragansett Planning Board

Terence Fleming, Chair

Dr. Joseph O'Neill, Vice Chair

Stephen E. Glazer

John P. Hodnett

Vincent A. Indeglia

Produced by:

Michael DeLuca, Narragansett Planning Director

Bruce Lofgren, Planning Intern
Acknowledgements

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Individuals from outside of the Department that helped in gathering information for the Population Trends Report are:

Amanda Martin, Principal Planner, Rhode Island State Wide Planning Program

Gina Simeone, RI DEM Division of Parks & Recreation

Steven Wright, Interim Director, Town of Narragansett Department of Parks and Recreation

Cindy Duckworth, Narragansett Building Inspection Department

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Introduction

The United States Census Bureau is the government agency responsible for the United States Census. The first U.S Census report was taken shortly after the American Revolution in 1790. The purpose was to get an accurate count of Americans, and their state of residency. To be as precise as possible, the census required that every household be visited, and that the total number of persons and their basic descriptions (White Males over 16, White Males under 16, White Females, or slaves/other free persons) for every district be counted and sent to the president. In addition, the report was required to be posted in "two of the most public places within [each jurisdiction], there to remain for the inspection of all concerned." Since the first census, the U.S Census Bureau has been reproducing this report every ten years. The decennial report information is an essential data set used in distributing Congressional seats, electoral votes, and government program funding. It is also an important data tool for businesses, which use the census information to forecast future product demands, choosing new locations for expansion, and projecting future needs for nursing homes, day care centers, and hospitals. Additionally, census data is used by federal, state, and local governments in planning locations of new housing and public facilities, transportation planning, local schools, utilities, and evaluation of local demographics.

Most recently, the Bureau released its 22nd report in 2010. Since the 1790 census, the report has become much more complex and sophisticated. However, in 2010 only ten questions were asked. The topics were gender, age, race, ethnicity, relationship, and whether you own or rent your home. This shortened version in 2010 is the result of the addition of the American Community Survey to the census program. First released in 2008, the American Community Survey is an ongoing, yearly collection of data asking questions about education, housing, jobs, etc. This information was previously collected in the long-form questionnaires of the census report (received by 1 out of 6 households surveyed). As a result, detailed socioeconomic data is much more up to date than prior to the adoption of the survey.

To help summarize important aspects of census and survey data in Narragansett, the Narragansett Department of Community Development has produced this Population Trends report. The intention of the first edition of the Population Trends is to highlight characteristics of the 2010 US Census, as well as provide some characteristics of prior census reports over the past decades. The 30 year period highlighted in this report shows demographic trends that will be useful in future planning of the town. In addition to overall population numbers and age structure of the town, this publication will also explain the seasonal population changes and how it affects certain town demographics. To fully understand socioeconomic trends in Narragansett, this report will explore more detailed characteristics regarding education, employment, income, poverty, housing, ethnicity, and ancestry. Throughout the chapters of Population Trends, Narragansett’s demographics will be compared and contrasted with statewide census data from Rhode Island, and also with other Rhode Island Municipalities. This data evaluation between statewide averages and other cities and towns of Rhode Island is intended to give the reader a perspective of how Narragansett stands in comparison. Also when applicable, major differentials between these will be explained and accounted for.

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1 U.S. Census Bureau, Housing and Household Economic Statistics Division
General Population Characteristics

According to the 2010 U.S. Census report, Narragansett has a population of 15,868. This number is down from 16,361 reported in the 2000 U.S. Census. While the Town accepts this statistic, it does not necessarily mean Narragansett lost 493 individuals in the last decade. We will elaborate on the Town’s population variations in section V. For the purposes of statistical analysis the Town accepts the reduction as counted.

This 3 percent decline is small, but marks the first drop in Narragansett’s population since the 1920 census. Beginning in 1930, Narragansett has seen continuous growth of varying degrees in every U.S Census report prior to 2010. The most rapid population increases occurred between the 1960, 1970, and 1980 census. In 1960, the town had only 3,444 residents. By 1970, this number rose to 7,138, a 107 percent increase in 10 years. In 1980, the U.S. census reported a 67 percent increase in population with 12,088 residents. The chart below shows Narragansett’s population growth since the 1890 U.S census.

Narragansett Population Trends 1890 To 2010

<table>
<thead>
<tr>
<th>Year</th>
<th>Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>1890</td>
<td>1,408</td>
</tr>
<tr>
<td>1900</td>
<td>1,523</td>
</tr>
<tr>
<td>1910</td>
<td>1,250</td>
</tr>
<tr>
<td>1920</td>
<td>993</td>
</tr>
<tr>
<td>1930</td>
<td>1,258</td>
</tr>
<tr>
<td>1940</td>
<td>1,560</td>
</tr>
<tr>
<td>1950</td>
<td>2,288</td>
</tr>
<tr>
<td>1960</td>
<td>3,444</td>
</tr>
<tr>
<td>1970</td>
<td>7,138</td>
</tr>
<tr>
<td>1980</td>
<td>12,088</td>
</tr>
<tr>
<td>1990</td>
<td>14,985</td>
</tr>
<tr>
<td>2000</td>
<td>16,361</td>
</tr>
<tr>
<td>2010</td>
<td>15,868</td>
</tr>
</tbody>
</table>
Accounting for the Population Trends

In addition to analyzing the trends in overall population numbers, it is also important to break down these numbers into age groups. Just focusing on the total number of people in the town fails to show trends for future populations, changing sizes of specific age groups, and reasons for prior population fluctuations. In Narragansett, we have seen significant shifts in age composition over the last 30 years.

The figure below shows Narragansett’s age composition from 1980 to 2010. It is broken down into 7 age groups called “cohorts”, including school aged children (0-19), college age students and young adults (20-24), mid twenty’s to early-thirties (25-34), mid-thirties to early forties (35-44), mid-forties to early fifties (45-54), mid-fifties to early sixties (55-64), and the elderly population (65 and over).

**Narragansett Age Composition 1980 to 2010**

<table>
<thead>
<tr>
<th>Age Group</th>
<th>1980</th>
<th>1990</th>
<th>2000</th>
<th>2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-19</td>
<td>2,822</td>
<td>3,221</td>
<td>3,294</td>
<td>2,786</td>
</tr>
<tr>
<td>20-24</td>
<td>2,385</td>
<td>2,724</td>
<td>2,746</td>
<td>3,281</td>
</tr>
<tr>
<td>25-34</td>
<td>2,323</td>
<td>2,520</td>
<td>1,829</td>
<td>1,237</td>
</tr>
<tr>
<td>35-44</td>
<td>1,231</td>
<td>2,237</td>
<td>2,257</td>
<td>1,373</td>
</tr>
<tr>
<td>45-54</td>
<td>916</td>
<td>1,404</td>
<td>2,363</td>
<td>2,189</td>
</tr>
<tr>
<td>55-64</td>
<td>933</td>
<td>1,252</td>
<td>1,656</td>
<td>2,357</td>
</tr>
<tr>
<td>65+</td>
<td>1,135</td>
<td>1,621</td>
<td>2,216</td>
<td>2,645</td>
</tr>
</tbody>
</table>
In this previous figure, there are some notable shifts in several age cohorts. The most dramatic are in the age groups of 25 to 34, 35 to 44, and in the older populations. The town’s population overall is trending older, all age cohorts over 50 are steadily increasing. In 1990 Narragansett’s median age was 31.2 years. In 2000 that number rose to 44.4 years. In 2010 the median age dropped slightly to 40.4 years, but this is expected to stay even or slightly increase in the coming decades.

Also noteworthy, Narragansett’s young adults (post college age) and first time home buyers are declining. This trend of a growing elderly population and a declining young adult (ages 24-35) and youth population (ages 0-19) might reflect lower birth rates. Also, this trend might be attributed to rising home prices in Narragansett. The dramatic increased housing costs of the past 15 years make it hard for young couples in the 24 to 35 age group to settle and have families in town.

The chart below shows Narragansett’s population in 5 year cohorts as of 2010 census, separating the male population (blue line) from the female population (red line).

In this chart, the largest spike in population represents the college age population of Narragansett. This age group heavily influences the makeup of the town. In 2010, there were 3,281 people in the age group of 20 to 24, making up 20.6 percent of the town’s population. This means one of every five people in the town falls in this five year age cohort. In comparison, the age group of 25 to 29 makes up just 4 percent of the overall total. The University of Rhode Island located 8 miles away in neighboring town of South Kingstown significantly affects this uneven population. According to the University of Rhode Island, 55 percent of its students live off campus. Many of these students settle in Narragansett due to the availability of over 2,500 units of rental housing. The next figure is the same graph, but it is taken from 2010 census data for all of Washington County. In the Washington Country graph the age group of 20 to 24 is still shown with a spike, but it is not nearly as dramatic as Narragansett. For comparison, in
Washington County there are 10,566 people that fall into the five year age cohort of 20 to 24 out of 126,979. This accounts for 8.3 percent of the county’s population. In other words Narragansett had proportionately more than twice as many young adults than the county average.

**Washington County’s Population by Sex in 2010**

In addition to the spike in young adult population, both maps show a second hump in the population aged between 45 and 65. This age group represents the “baby boom” generation. The baby boom generation was born in the Post World War II era, usually between the years of 1946 and 1963 as defined by the U.S Census Bureau. This demographic group is common throughout the United States and is to be expected in population trends for most cities and towns.

The large percentage of population that the baby boomers make up also contributes to the young adult spike previously mentioned. In addition to college students in Narragansett, this age group can also be defined as the children of the baby boom generation. Therefore, to say that this spike of young adults is predominantly non-indigenous to Narragansett would not be entirely true.

Another pattern that emerges in these two charts is the differential between the number of females and males. The charts show a pattern of more male births than female births. There is also a pattern of females outnumbering males beginning in the late thirties and becomes increasing apparent in older age groups. This occurrence of more male births and longer female life expectancies is common.

The next few pages of this report show a series of graphs referred to as population pyramids or age structure diagrams. A population pyramid graph shows the population by sex (males on one side, females on the other) and age using the five year age cohorts in previous charts. The pyramids show Narragansett’s population in each decade from 1980 to 2010.

**Narragansett’s 5 year Cohort Population Pyramid as of 1980**
Narragansett’s 5 Year Cohort Population Pyramid as of 1990

Narragansett’s 5 year Cohort Population Pyramid as of 2000
In this sequence of five-year cohort population pyramids it is interesting to see the shifts in population previously described in this report. This is just another way of presenting the demographic data that may be easier to interpret. An important feature to notice in the population pyramids is the aging baby boom generation. As the sequence goes on, you can see this sizeable group move through the age cohorts. In 1980, baby boomers were in the age cohorts between 20 and 35. In 2010 the baby boomers are well defined in age cohorts 40 to 65. Also becoming increasing noticeable is the offspring of the baby boomers. This generation is commonly referred to as the “echo boomers”. The echo boomers first begin to appear in the 1990 pyramid in the youngest age brackets, and in 2010 are shown in the age brackets between 10 and 25. A more detailed explanation of this generation will be covered in Section III.

Also clearly defined in the 2010 chart is the restricted section in the age groups of 25 to 40. One possible reason for this is lower birth rates during that time period. During the late 1960s to around 1980 birth rates in America were very low. This low birth rate applies to age groups between 30 and 40 years of age. This age group sits in between the baby boom generation and the echo boom generation. In addition to being in between population booms, environmental movements in the 1970s also resulted in lower child births. The most relevant was the Zero Population Growth Movement. The basic concept of the movement was that the Earth was too overpopulated and humanity should attempt to keep population growth as close to zero as possible to ensure long-term environmental stability. The movement suggested that increased population would result in mass starvation, natural resource depletion, and continued environmental degradation. The face and founding father of the movement was Stanford Biologist Paul Ralph Ehrlich. Ehrlich was the author of the highly influential book titled *Population Bomb*, which was published in 1968. In the book, Ehrlich insisted that “We must rapidly bring the world population under control, reducing the growth rate to zero or making it negative.” He believed that the United States should be at the forefront of the movement and also that “The mother of the year should be a sterilized woman with two adopted children.”² As a result of this movement, families of the 1970’s became much more cautious about the number of children they had. This is just one possible explanation as to why population numbers of the era were low.

Another possible reason Narragansett is lacking younger adults is current economic trends. The 2010 pyramid shows an unstable population of younger adults, compared to the more stable pyramids in preceding census years. This indicates that a higher percentage of recent college graduates, young professionals, and first time home buyers, are moving out of Narragansett. This trend is most likely attributed to their inability to obtain a satisfactory standard of living. A resident’s standard of living is determined by factors such as income level, availability of employment, availability of affordable housing, and other factors that affect ones level of wealth, comfort, and overall happiness. In Narragansett, and many other cities and towns in the United States, young adults are struggling to find their niche. In tough economic times, individuals with little or no professional experience struggle to land entry level professional jobs. This leads to unemployment or underemployment of inexperienced members of the community. This employment factor combined with Narragansett’s high housing prices; create a difficult environment for this age group to obtain a modest standard of living. As a result, young adults are emigrating to other communities, which may provide them with more opportunity to live a prosperous

and more desirable existence. If economic and housing conditions remain unchanged in the area, this trend may continue in the future. However, these age structure trends presented in this section are not unique to Narragansett; in fact they are very similar to other towns in Washington County.

For the sake of comparison, population pyramid graphs for all of Washington County in 2000 and 2010 are included on the next page. When comparing the county’s population pyramid with Narragansett, notice the similar patterns in first time home buyer and recent college graduate departures, as well as the highly defined baby boom and echo boom populations.
Washington County's 5 year Cohort Population Pyramid as of 2000

Washington County's 5 year Cohort Population Pyramid as of 2010
Narragansett’s Youth Population

This section will focus on Narragansett’s youth population or residents who are aged 18 and under. From 1980 to 2000, the number of Narragansett’s young residents (18 and under) remained stable with around 3,000 in the town. In 2010 this trend changed, and Narragansett experienced a drop-off of 578 children, resulting in a 19 percent reduction in its youth population from 2000. At first this decline looks abrupt, but after more analysis this trend was not an anomaly. Although overall numbers from 1980 to 2000 remained steady, overall population in other age cohorts increased. This resulted in a lower percentage of residents aged 18 and younger, compared to the overall total. In 1980, Narragansett had 2,945 residents aged 18 and under; representing 24 percent of the overall population. Comparatively in 2000, Narragansett had 2,994 residents aged 18 and under, but the percentage dropped to 18 percent of the overall population. In 2010, the percentage and the actual count came down to just 15 percent of the overall population with 2,416 residents in the 18 and under age cohort.

For a more detailed look, the chart below shows Narragansett’s youth population by year in seven different age cohorts.

<table>
<thead>
<tr>
<th>Age</th>
<th>1980</th>
<th>1990</th>
<th>2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Under 5</td>
<td>669</td>
<td>867</td>
<td>670</td>
</tr>
<tr>
<td>5 to 6</td>
<td>354</td>
<td>342</td>
<td>315</td>
</tr>
<tr>
<td>7 to 9</td>
<td>448</td>
<td>496</td>
<td>496</td>
</tr>
<tr>
<td>10 to 11</td>
<td>332</td>
<td>326</td>
<td>323</td>
</tr>
<tr>
<td>12 to 13</td>
<td>315</td>
<td>293</td>
<td>331</td>
</tr>
<tr>
<td>14 to 15</td>
<td>341</td>
<td>244</td>
<td>343</td>
</tr>
<tr>
<td>16 to 18</td>
<td>486</td>
<td>422</td>
<td>516</td>
</tr>
</tbody>
</table>
The graph on the previous page shows a 30 year trend in the town’s youth population. In 2010, every age cohort in the graph experienced a decline. The most noticeable decline is occurring in Narragansett’s youngest age groups. The age groups of under 5, 5 to 6, and 7 to 9 have all been in decline since 1990.

There are a few possible reasons for this decline in Narragansett’s youngest residents. The first is a result of lower birth rates and national demographic trends. As previously mentioned in this report, the baby boom generation has a significant effect on demographics. The declining birth rates and number of children under 9 seen in the 2000 and 2010 census can be partially attributed to the end of the “echo baby boom” generation. The echo baby boom generation is the offspring of the post-World War II baby boomers. The United States Census Bureau defines the echo boom generation as people born between 1982 and 1995. In the graph on the previous page, Narragansett’s echo boomers are represented in the 1990 peak of children under 5. This is again apparent in 2000 when age groups 12 to 13, 14 to 15, and 16 to 18 saw increases and were all at thirty year highs. In 2010, these “Echo Boomers” began to mature out of the youth population cohorts.

Another possible explanation for Narragansett’s declining youth populations could be attributed to rising housing prices in Narragansett. High living costs make it difficult for young families to settle in Narragansett. If similar economic and housing market conditions continue, Narragansett’s deficit of first time home buyers and young children could continue.

Birth Rates

In an attempt to further understand Narragansett’s recent decline in youth population, the Population Trends report will use birth data from the Rhode Island Department of Health. However, birth rates released by the Rhode Island Department of Health are currently only available up to 2002. This will assist this report in showing older children in the town, but cannot account for younger children.

The best and most commonly used indicator in showing birth statistics is the birth rate. The birth rate is calculated by dividing the number of live births with the number of people in the geographical area and multiplying it by 1000. This gives you the number of births for every 1000 people. It does not however, take into account how many women of childbearing age there are in the area. As a result, in rare circumstances when an area has unbalanced percentages between women who could have potentially had a child, and the rest of the population the rates can be altered. In Rhode Island, birth rates between 1980 and 2002 have seen some obvious changes. There is no accurate data for Narragansett during this full time frame, but the chart on the following page highlights birth trends in Rhode Island. In the chart there is an obvious spike in birth between the mid-1980s and the early 1990s. The highest year over the 22 year period was 1990 when the state had a birth rate of 15.1 percent. The lowest rate was in 2000 when the rate dropped to 11.9 percent. When comparing these rates with youth census statistics in Narragansett a similar pattern appears. This peak rate in 1990 is shown on the Narragansett’s graph on the previous page when children under 5 were at 30 year highs in the town.
As for Narragansett, the Department of Health has released data that shows birth numbers and rates in Narragansett between 1998 and 2002. During this five year time frame, Narragansett had 617 births. This resulted in a 7.5 percent birth rate. This rate of 7.5 % is very low compared to the state wide average of 12 percent during the same time frame. Narragansett’s birth rates between 1998 and 2002 were the second lowest in the state. The two most recent years with birth rate data are 2001 and 2002. In 2001, Narragansett had 114 births in the town with a rate of 6.9 percent making in the third lowest in the state that year. In 2002, the birth rate dropped slightly with 112 births, and a 6.8 percent birth rate which represented the lowest rate in the state.

Mentioned previously in this report, the terms “baby boomers” and “echo boomers” were defined and explained. These generation patterns have had and will continue to have a direct effect on birth rates. In the graph above, the echo boom generation is visible in the high birth rate spike during the mid 1980’s to the early 1990’s. Assuming fertility rates of the echo boom generation are comparable to their baby boom parents, another similar birth rate increase is expected in the future. Predicting when this next generation will be born is challenging because of changing patterns in maternal ages, or the age in which a mother gives birth. Recently, Rhode Island, along with the United States as a whole, is experiencing increasing numbers of mothers having children after the age of 35 and decreasing numbers of women having children before the age of 25. This trend in advanced maternal age is expected to continue and should be included in any prediction in future birth rate trends. Taking that into consideration, the echo boom offspring is most likely to occur 25 to 40 years after the spike shown in the graph above. Applying this estimation to the graph above, Narragansett should expect the next generation anywhere between 2010 and 2035.
Narragansett’s Elderly Population

The Town of Narragansett has seen a steadily increasing elderly population since 1980. In 1980, there were 1,136 residents aged 65 and older making up 9 percent of the town’s population, by 2010, there were 2,645 Narragansett’s elderly residents representing 17 percent of the town’s population. The net increase in elderly residents in the town from 1980 to 2010 was 1,509 meaning the towns elderly population has increased by 133 percent in the last 30 years.

One of the major reasons for this population trend is improved health care and lifestyles leading to longer life expectancy. Another reason for increases in 2010 is the aging baby boom generation. 2010 was the first census year that baby boomers entered into the 65+ age bracket. However, this trend is just beginning; the oldest of the baby boomers in 2010 were just barely 65. The vast majority of the baby boom generation is still in their 50’s. Therefore, the numbers of elderly people in Narragansett for the 2020 and 2030 censuses are expected to be much higher than current numbers.

In the chart or graph below, Narragansett’s elderly population is shown by age from the 1980 to 2010.

<table>
<thead>
<tr>
<th>Age</th>
<th>1980</th>
<th>1990</th>
<th>2000</th>
<th>2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>65-69</td>
<td>399</td>
<td>557</td>
<td>646</td>
<td>901</td>
</tr>
<tr>
<td>70-74</td>
<td>320</td>
<td>455</td>
<td>596</td>
<td>587</td>
</tr>
<tr>
<td>75-79</td>
<td>201</td>
<td>311</td>
<td>474</td>
<td>482</td>
</tr>
<tr>
<td>80-84</td>
<td>133</td>
<td>195</td>
<td>287</td>
<td>364</td>
</tr>
<tr>
<td>85-89</td>
<td>57</td>
<td>80</td>
<td>157</td>
<td>213</td>
</tr>
<tr>
<td>90-100</td>
<td>26</td>
<td>23</td>
<td>56</td>
<td>98</td>
</tr>
</tbody>
</table>
The most prominent increase in the graph on the previous page is in the age group of 65 to 69. As previously mentioned this represents the beginning of the baby boomers entering into the elderly age brackets. Also noticeable is the increased number of people living into their 80’s and 90’s. When broken down further it is interesting to note this increased longevity in Narragansett residents. In 1980, there were 83 people in the town aged 85, and over. By 2010, that number rose to 311. Representing a 275 percent increase.

This increasing trend in elderly population may put added pressure on community facilities and services, housing needs, and overall community dynamics. Proper planning for town facilities and programs will need to be conducted to serve the growing population cohort.
Seasonal Variations

The Town of Narragansett is heavily influenced by its seasonal populations. Unlike most other towns in Rhode Island, Narragansett experiences large population fluctuations depending on the time of year. Some changes in population can be attributed to seasonal housing (vacant in the winter), and the 2000 plus rental units alternately populated by college students from the University of Rhode Island, and Narragansett’s summer tourists. At the time the Census is taken, the URI students are still in school and occupying their academic rentals. In May, the URI academic year ends, also ending student academic leases. These rental units are then re-populated a few weeks later by summer weekly renters. While firm figures are not available, it is likely that during the months of June through September the town’s population, including day trippers, increases by 100 percent, and during the busiest of weekends and special events the number can be much higher. Through data analysis and United States Census information this section of the report will give the best estimate of Narragansett’s seasonal population.

The 2010 United States Census Bureau Report indicates Narragansett has a year round population of 15,868. Census survey information is taken in April; it is therefore safe to accept this represents the winter population. In the Census’s report, 6,704 of the town’s 9,470 housing units were occupied, and 2,766 were vacant (seasonal units).

Although there is no accurate data for college student populations in the town, it is believed that during Mid-May through Mid-June Narragansett’s population is at its annual low. This deficit is short lived. The months of July and August bring seasonal residents to the area. During this time, all but a few of the 9,470 housing units in the town are occupied. If all of the 2,766 seasonal housing units in Narragansett are filled with a conservative estimate of 3 persons per unit the town’s population estimate rises to 24,169.

In addition to the seasonal housing units, Narragansett has 12 bed and breakfasts, 3 hotels, 2 motels, and 2 campgrounds. This adds a total of 340 rooms and 297 campsites. On summer weekends, Narragansett’s lodging and campgrounds can be filled to near 100 percent capacity. Assuming 90 percent capacity and estimating 2.3 people per hotel room and 3 people per campsite, an additional 1,515 people can be added to the seasonal population. After adding Narragansett’s guests staying overnight in hotels and campgrounds to the estimated summer resident population, the town’s population estimate increases to 25,684. This is a 62 percent increase in population.

This number estimates Narragansett’s total population staying overnight in town during the summer months. However, Narragansett, a premier tourist destination in the state, has a daytime population far exceeding that estimate.

To account for the total number of people in Narragansett during the summer one must also include the “day trippers” to the town. Although it is impossible to account for everyone, attendance data from Narragansett’s popular tourist attractions allow for a reasonable and conservative estimate. Narragansett’s prime summer attraction is its beaches. The town has 3 state beaches; Scarborough, Salty Brine, and Roger Wheeler; Narragansett Town Beach, and 3 private beach clubs. According to RI
DEM, an average of 8,395 people per day attended the 3 state beaches in July 2011. The Narragansett Parks and Recreation Department conducted an 11 day attendance study at Narragansett Town Beach in August 2011. The results of the town beach study counted an average attendance of 5,064 people per day. Attendance data for the town’s private beach clubs is not published, but a total of 1,000 people a day for the three private beaches can be conservatively estimated. In total, the average beach attendance per mid-summer day in Narragansett is 14,459. However, this number cannot account for beach goers who live or are staying in Narragansett overnight. In an effort to avoid double counting Narragansett’s overnight residents in beach attendance data, some percentage estimates must be made.

This report will estimate that 75 percent of people at Narragansett Town Beach are local overnight residents, and 25 percent are day trippers to the town. For state and private beaches in the town, the estimate used will be 25 percent local overnight residents and 75 percent day trippers. Using these estimates, day tripper beach attendance at Narragansett Town Beach is 1,266. Day tripper state beach attendance is 6,296, and day tripper attendance at the private beach clubs is 750. This revised estimate results in an average of 8,312 day trippers per day attending its beaches in the summer. This increases Narragansett’s daytime population to an estimated 33,996; a 114 percent population increase from the winter population.

In the summer season, Narragansett has several other attractions besides its beaches that bring people into the town. Tourists also come for its restaurants, marinas, aesthetic scenery, and other natural attractions. Recreational activities such as fishing, clamming, scalloping, water skiing, and boating also attract visitors. Also located in Narragansett is the Block Island Ferry which brings hundreds if not thousands of people to Block Island every summer day. However, attendance numbers for these attractions are unavailable or unreliable. For credibility, additional day trippers that come to Narragansett for attractions aside from its beaches will not be counted or included in this reports estimate. This will keep the total daytime seasonal population estimate a conservative one.

Another source of data that indicates summer population increases in Narragansett are traffic reports. A Traffic Impact and Access study was taken in 2006 at the intersection of Route 1a and Bridgetown Road. Vanasee Hangen Brustlin Inc. observed traffic and collected traffic counts at the intersection in May and again in July. The data collected in May was considered off season traffic and data collected in July was considered peak season traffic. The numbers were taken at “peak hour” during the midweek evening commute and again midday on Saturday. The results conclude that the intersection receives 26 percent more traffic in July than it does in May. The data also explains that certain movements through the intersection see much larger increases. The largest increase in traffic direction was northbound traffic during the midweek evening commute (a complementary southbound increase is assumed for the morning). The report determined that northbound traffic increased by 75 percent on Route 1A in July. This increase in northbound traffic can most likely be attributed to beach goers leaving Narragansett in the late afternoon and early evening.

In addition to the Route 1A study, a Traffic Impact Study by RAB Engineers was taken at the intersection of Route 108, Woodruff Avenue and South Pier Road in 2006. The study took data from October 2004
for offseason numbers and in July 2005, for peak season numbers. Data was collected at the peak hour of the evening commute during midweek. The RAB data revealed that overall traffic in the intersection increased by 46 percent during July. Similar to the Route 1A study, evening northbound traffic was the most seasonally affected. The RAB study showed that peak season traffic traveling northbound through the intersection of route 108 and Woodruff Avenue increased by 71 percent (again a complementary south bound increase in the morning is assumed).

In Summary, Narragansett’s year round population reported in the 2010 census report was 15,868. After adding in summer seasonal population of overnight guests in Narragansett, the population estimate rises to 25,684. After calculating the average number of day trippers in Narragansett and adding that to the overnight summer population, the average number of people in Narragansett on a typical summer day is approximately 34,000. Therefore, we can conservatively conclude Narragansett’s summer population ranges between 62 percent (with no day tripper population) to 114 percent (including day trippers) above the town’s offseason population. In evaluating traffic studies, data suggests an overall seasonal traffic increase of 26 to 46 percent. Traffic data also shows an evening northbound traffic increase of 71 to 75 percent. The sizeable increase in evening northbound traffic indicates the added day trippers and beachgoers leaving after spending the day in the town. This figure also indicates beachgoers and other day trippers tend to leave town in a shorter time window than when they arrive earlier in the day. While there is no way to predict a truly accurate seasonal population in Narragansett, this report provides the best conservative estimate.

It is important to note that these numbers indicate an average summer day in Narragansett. On some midweek summer days and foul weather days these estimates could be high. By contrast, population numbers for weekends, holidays, and special events in the town can be well above this reports estimated seasonal population of 34,000.
Educational Characteristics

Educational Characteristics of Narragansett are a very important demographic to study when analyzing population dynamics of the Town. Education and its related expenses are some of the largest factors to consider in municipality planning. These educational expenses are related to the number of residents enrolled in Narragansett’s Public School System each year.

As previously highlighted in the youth population section of the *Population Trends* report, Narragansett’s school age population has recently been in decline. Using school enrollment data from 1992 to 2011 collected by the Narragansett School Department this trend becomes increasing apparent. According to enrollment data, school enrollment hit its nineteen year high in 1994 with 1,955 students. In 2011, Narragansett had 1,462 students in the school system. To remain consistent with the rest of the *Population Trends* report, this section will compare numbers from 2000 and 2010. From 2000 to 2010, Narragansett’s school numbers declined in all of the town’s schools; Narragansett Elementary School’s total enrollment decreased by 22 percent, Narragansett Middle School’s dropped by 26 percent, and Narragansett High School experienced a modest 7 percent decrease since 2000. The overall total enrollment in the town had a 17 percent loss between 2000 and 2010.

The graph below highlights the town’s enrollment trends in each school from 2000 to 2010.

**Narragansett School Enrollment Trends 2000 to 2010**
This is 17 percent decline in school enrollment from 2000 to 2010 is consistent with the 19 percent decline in Narragansett’s youth population. Therefore, this trend was expected and does not indicate any major impact from Narragansett’s children leaving the district, dropping out of school, or home schooling. It shows consistency with overall youth population trends in the town.

**Adult Education Attainment**

Narragansett’s adult population is also an important aspect in the town’s demographics. Educational attainment helps when analyzing the town’s employment and labor characteristics, income levels, and overall quality of life of its residents.

Narragansett’s education attainment for its residents 25 and older has been improving over the last 20 years. The 1990 census reported that 87 percent of Narragansett residents were high school graduates or higher. In 2000, 91 percent of town residents were high school graduates or higher. In addition to rising high school graduate rates, the percent of college graduates in the town has also been increasing. In 1990, 37 percent had a bachelor’s degree or higher. In 2000, that number improved to 42 percent.

The most recent data available for Narragansett’s educational attainment is found in the American Community Survey 5-Year Estimates from 2006 to 2010. The survey reports that Narragansett’s residents on average are more educated than Rhode Island as a whole. The survey estimates that 96 percent of town residents 25 and over have a high school diploma or higher. In comparison, the Rhode Island state wide average is 84 percent. Narragansett is also above the states average with 52 percent of its residents having a bachelor’s degree or higher, compared to 30 percent statewide.

These high levels of educational attainment in Narragansett (compared to state levels) play an important role in the town’s labor force. In most instances, educational levels play a key role in one’s ability to stay employed and find jobs, especially in times of economic hardship. The next section of this report will focus on labor and employment trends in Narragansett.
Labor and Employment Characteristics

The Town of Narragansett could be most accurately described as a residential suburb. This means that the majority of residents in the workforce commute out of town to work. According to the Rhode Island Department of Labor And Training; Narragansett had 9,136 residents working in the labor force in 2010. However, only 4,346 jobs (excluding self-employed) are located in the Town of Narragansett. Although there are no exact percentages for 2010, in 2000 RIDLT reported that 71 percent of Narragansett residents work out of town.

In addition to the residents in the labor force, the town had 805 residents unemployed in 2010, resulting in an 8.1 percent unemployment rate. Comparatively in 2000, the unemployment rate in Narragansett was 2.8 percent with only 273 unemployed residents in the town. This marks a significant increase in unemployment in Narragansett since the 2000 report, but this trend is a statewide phenomenon since the economic downturn of 2008. Rhode Island as a whole had a 4.2 percent unemployment rate in 2000, which increased to 11.2 percent statewide by 2010.

It is interesting to note that in 2010, Narragansett had the lowest unemployment rate of any town in Rhode Island. This could be attributed to Narragansett residents having educational attainments well above the statewide average. This educational factor is previously discussed in the educational characteristics section of this report.

Another important aspect in evaluating Narragansett’s labor characteristics is looking at the town’s principal employers. As previously stated, Narragansett has 4,346 established jobs in town. The largest employers in the public sector are the; University of Rhode Island, Environmental Protection Agency, National Marine Fisheries Service, and the Town of Narragansett.

In the private sector the majority of jobs are held in the category of leisure/hospitality services. This job sector accommodates Narragansett’s large tourism industry, with most service jobs located in the many restaurants and hotels in the town. The largest providers of private jobs in Narragansett are; DeWal Industries, Stop and Shop, Georges of Galilee, VNS Home Health Service, and the Dunes Club. Many of these jobs in the private sector are seasonal positions, and overall jobs in the town can seasonally fluctuate. Data from the a 2000 RIDLT report reported an increase of 1,045 jobs in Narragansett between the first quarter (January to March) and the third quarter(July to September) with about 600 more jobs in retail sales and about 375 more jobs in services.
Income Characteristics

Income characteristics in municipalities are a good measurement of economic prosperity of the community and its residents. Resident income levels are considered to be one of the most important aspects when evaluating quality of life offered by a Town. This section of the report will describe income in many different ways, analyzing income data for households, families, different age groups, and also elucidating poverty statistics in Narragansett. Also, this report will make an attempt to compare Narragansett’s income characteristics to similar towns in the state as well as to statewide statistics. These comparisons and differentials in Narragansett highlight the stature and wellbeing of the community.

Median Household Income is the most commonly used statistic in evaluating a town’s economic wellbeing. It is usually an important indicator in quality of life of town residents because it only displays disposable income, or total income minus personal taxation. It also takes into consideration pooling incomes, incomes of two or more people living in the same residence.

Since the 1990 census, Narragansett has seen a large increase in its median household income. In 1990, the median household income in Narragansett was $35,545. In 2000, that number rose to $50,363, and in 2010 the median household income was $57,906. The overall result is a 62.91 percent increase in just 20 years. This statistic is remarkably consistent with the Rhode Island’s statewide median household income which increased by 62.38 percent in the same time frame. While there has been a remarkable constancy in median household income trends between Narragansett and Rhode Island, Narragansett’s household income levels have stayed about 11 percent above the statewide average, since 1990. The chart below illustrates this trend.

<table>
<thead>
<tr>
<th>Narragansett Median Income Compared to Statewide Average Income</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year</strong></td>
</tr>
<tr>
<td>Narragansett Median Household Income</td>
</tr>
<tr>
<td>Statewide Median Household Income</td>
</tr>
</tbody>
</table>

Although Narragansett’s median household income level standing 11 percent above statewide average may seem significant, some towns are much higher. For example, in 2010, the Town of Barrington, well known for its affluence, had a median household income of $94,300. This makes Barrington’s income levels 80 percent above statewide median averages. In looking at this further, Narragansett is actually 27th out of 39 cities and towns in the state in highest median household income. In comparison, Narragansett’s neighboring towns of North Kingstown and South Kingstown have median household incomes of 77,471 and 73,759 ranking 8th and 12th in the state, respectively.

Narragansett’s low ranking in the states median household income statistics may come as a surprise to some, who consider Narragansett to be on the wealthier side of the economic spectrum. In looking
beyond the most commonly used data set of median household income, one can see a few patterns that may explain this status of economic normality in a town many consider to be well-off and luxurious to live in.

The most obvious reason for Narragansett’s median household income being lower than its neighboring municipalities is its large population of college students. As previously mentioned in this report, Narragansett’s demographics are highly affected by University of Rhode Island students living in the town. Most college students living off campus live in houses with 2 or more roommates. Due to their academic course load, most college students do not have full time jobs, or in some instances no job at all. Therefore, college students have incomes significantly lower than Narragansett residents who work full time. This lack of significant income in college households then affects the entire town’s median household income statistics.

As previously stated, a town’s median household income is the most commonly used statistic in evaluating community wealth. However, in a town like Narragansett, where a large group of people earn much less than other groups, the mean income becomes equally important.

Although still slightly weighted down by college household incomes, applying the mean household income instead of the median shows Narragansett much closer in comparison to other towns. In 2010, Narragansett had a mean household income of 87,557. To compare, the state wide average was 71,934, North Kingstown’s was 100,768, and South Kingstown was 90,642.

Another statistic used in evaluating town’s income levels is per capita income. Per Capita Income or income per person is a measure of mean income within an economic aggregate. It is calculated by taking a measure of all sources of income in the aggregate and dividing it by the total population. Per Capita income is much different than median income in that, it does not attempt to reflect the distribution of income or wealth. Therefore, per capita income (like mean household income) is not as affected by a large group of people (ex. college students) who make significantly less than the wealthiest citizens in town. After looking at Narragansett’s per capita income, compared to North Kingstown, South Kingstown, and RI statewide average, it becomes apparent that the working class of Narragansett is much more competitively wealthy with other neighboring towns. The per capita income in Narragansett for 2010 was $37,159. In comparison; North Kingstown had a $38,911 income, South Kingstown had a $32,332 income, and the Rhode Island statewide average was $28,707.

Another indicator that Narragansett’s income levels are affected by college students is noticeable in family household income statistics. The most useful statistics in evaluating and comparing Narragansett to other towns and Rhode Island as a whole are Narragansett’s percentage of family households to non-family households, the differentials in the median incomes of family households vs. non-family households.

Family household income statistics are higher than overall household income statics. In 2010, Rhode Island’s state wide median family household income ($70,633) was 26 percent higher than overall household incomes ($54,902). In Narragansett, the percent increase between median family household income and all household median incomes was much higher than statewide. In Narragansett, median
family household income ($85,020) was 47 percent higher than overall median household income ($57,906) in the town. This relationship in family household income compared to total household income is also much higher than the neighboring towns of North Kingstown (22 percent increase), South Kingstown (29 percent increase). Narragansett’s more prominent family income differentials are a result of the town having a much higher percentage of non-family households, comparatively. This housing demographic will be discussed further in the Housing section of the Population Trends report.

Poverty

In many cities and towns in Rhode Island poverty is a serious problem. In Narragansett, statistical data indicates there is no exception. If one were to simply look at census data without any knowledge of Narragansett’s demographic makeup, one would assume Narragansett is one of the most poverty stricken towns in Rhode Island. However, like all demographics in Narragansett, these poverty statistics are once again heavily influenced by college student households. The intention of this section is not to diminish or downplay the economic hardships of Narragansett’s college residents, as many of them struggle to get by. However, college students due to their full time enrollment in school and their low incomes are necessarily categorized to be living in the defined state of poverty. For college students, income is replaced with money by grants, loans, scholarships and money provided by parents or earned in summer employment. Therefore, it is not considered to be an issue of overall community prosperity or economic health.

In 2010, the American Community Survey reported that 17.2 percent of Narragansett’s residents were living in poverty. This puts Narragansett well above Rhode Island’s statewide average of 12.2 percent. As for the percentage of families in poverty in Narragansett the percentages were much lower. Only 4.7 percent of people living in family households were in poverty. This is much below the statewide average of 8.4 percent. In looking at the data further, it becomes apparent that the vast majority of Narragansett’s residents living in poverty are most likely college students from the University of Rhode Island.

Narragansett residents aged between 18 and 64 were twice more likely to be in poverty than the statewide average (22.4 percent in Narragansett and 11.2% Statewide). This is due to an estimated 2,114 out of the Town’s 3,246 college students were in poverty, representing 65.1 of the college demographic. In comparison only 4.3 percent of Narragansett residents under 18 were living in poverty; that number was 16.7 percent for the entire state. Senior residents aged 65 and over in Narragansett, 6.5 percent were living in poverty. This was below the state wide average of 9.3 percent. In total, Narragansett was estimated to have 2,743 people in poverty in 2010. Out of the 2,743 in poverty, college students represented 71 % of that group. In comparison, statewide college students make up only 13.7 percent of the total population in poverty. This large college factor, in a relatively small community has a profound impact on the overall poverty rate. This college poverty factor is seen in other small college municipalities in the United States. One of the most comparable is Clemson, South Carolina. Clemson is a small college town of 13,230 people with a poverty rate of 33.6 percent. However, college students account for 79.3 percent of the people in poverty.
Housing Characteristics

This section of the report will highlight Narragansett’s housing makeup and its trends over the last few decades. Housing Characteristics in Narragansett are unique in that many of the town’s housing units are used for seasonal, recreation, and occasional use. The census includes these units used seasonally, and recreationally as a subset of vacant housing, therefore they are included in the vacant unit total. According to the Census, "a housing unit is vacant if no one is living in it at the time of the interview, unless its occupants are only temporarily absent. In addition, a vacant unit may be one which is entirely occupied by persons who have a usual residence elsewhere." As a result of this, the town has a very high percentage of vacant units, but the vast majority of the town’s vacant houses are classified into the seasonal category. Narragansett to a certain degree is considered a beach resort community and therefore many of the housing units are only used in the summer. As defined by the Census, seasonal housing units are “intended for occupancy only during certain seasons of the year and are found primarily in resort areas”.

Another unique aspect is the percentage of owner occupied homes to renter occupied homes. The chart below represents selected housing characteristics for the Town of Narragansett from 1980 to 2010.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Housing Units</td>
<td>6,587</td>
<td>8,206</td>
<td>9,159</td>
<td>9,470</td>
</tr>
<tr>
<td>Occupied Units</td>
<td>5,179</td>
<td>5,843</td>
<td>6,846</td>
<td>6,704</td>
</tr>
<tr>
<td>Vacant Units</td>
<td>1,498</td>
<td>2,363</td>
<td>2,313</td>
<td>2,766</td>
</tr>
<tr>
<td>Seasonal Homes (included in Vacant Housing)</td>
<td>N/A</td>
<td>1,891</td>
<td>2,035</td>
<td>2,314</td>
</tr>
<tr>
<td>Vacant %</td>
<td>22.74%</td>
<td>28.80%</td>
<td>25.25%</td>
<td>28.21%</td>
</tr>
<tr>
<td>% of Vacant used for Seasonal, Recreational or Occasional Use</td>
<td>N/A</td>
<td>80.00%</td>
<td>88.00%</td>
<td>83.70%</td>
</tr>
<tr>
<td>Owner Occupied</td>
<td>2,916</td>
<td>3,382</td>
<td>4,237</td>
<td>4,208</td>
</tr>
<tr>
<td>Renter Occupied</td>
<td>2,263</td>
<td>2,641</td>
<td>2,609</td>
<td>2,496</td>
</tr>
<tr>
<td>Percent Renter Occupied</td>
<td>43.70%</td>
<td>45.20%</td>
<td>38.12%</td>
<td>37.23%</td>
</tr>
<tr>
<td>Ave Persons Per Household</td>
<td>2.33</td>
<td>2.56</td>
<td>2.39</td>
<td>2.36</td>
</tr>
</tbody>
</table>

In the chart above there are a few data sets that have trended abnormally over the past 30 years, but overall housing characteristics have remained relatively similar. The most apparent change is the number housing units, which has increased by 44 percent since the 1980 census. This of course is to be expected as town population increased dramatically in the past 30 years. Another notable trend in the data above is the percentage of renter occupied units compared to owner occupied units. It is noticeable that the number of owner occupied unit’s increases (91 percent since 1980), while renter occupied units stay fairly consistent (10 percent increase since1980). Also standing out in this chart is the high percentage of vacant houses. It is important to note that units categorized as vacant can be for

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3 U.S. Census Bureau, Housing and Household Economic Statistics Division
sale, units for rent not yet occupied, and used for seasonal, recreational, and occasional use. In the case of Narragansett, 82 percent of the vacant houses in town were categorized as seasonal, recreational, or occasional use in 2010. Also important when looking at housing statistics is the makeup of the housing unit.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Family Housing</td>
<td>3,537</td>
<td>3,846</td>
<td>3,560</td>
</tr>
<tr>
<td>Non Family Housing</td>
<td>2,306</td>
<td>3,000</td>
<td>3,144</td>
</tr>
<tr>
<td>Non Family Percentage</td>
<td>39.50%</td>
<td>43.80%</td>
<td>46.90%</td>
</tr>
<tr>
<td>Residents Living Alone</td>
<td>1,313</td>
<td>1,859</td>
<td>1,917</td>
</tr>
<tr>
<td>Non Relatives Living Together</td>
<td>N/A</td>
<td>2,298</td>
<td>2,739</td>
</tr>
</tbody>
</table>

This chart above shows a noticeable increasing trend in housing units occupied by single residents and non-family members. There are a few contributors to this. The first relates back to the decreasing number of younger children in the town. Also, new single resident homes are created when older children and young adults move out of their family homes adding to the non-family housing percentage. This population trend is fully explained in the Youth Population Trends section of this report. Another contributor is a slight increase in college student rentals in the town. This grouping is dominated by the large number of non-relatives living together. Although there is no data that specifically says these units are occupied by college students, it is safe to conclude that students make up the majority of data set.
Age of Housing Units

In Narragansett, most of the housing units in town were built in the 1950’s 1960’s and 1970’s. The chart on the following page shows the age of Narragansett’s housing units by decade of construction. One interesting feature in the graph is that 8,787 or 91.7 percent of the current housing units in Narragansett have been built since 1939.

<table>
<thead>
<tr>
<th>Year Built</th>
<th>Number of Units</th>
<th>% Age of All Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>2006 to 2010</td>
<td>206</td>
<td>2.10%</td>
</tr>
<tr>
<td>1999 to 2005</td>
<td>535</td>
<td>5.50%</td>
</tr>
<tr>
<td>1995 to 1998</td>
<td>410</td>
<td>4.30%</td>
</tr>
<tr>
<td>1990 to 1994</td>
<td>555</td>
<td>5.70%</td>
</tr>
<tr>
<td>1980 to 1989</td>
<td>1,650</td>
<td>17.00%</td>
</tr>
<tr>
<td>1970 to 1979</td>
<td>1,941</td>
<td>20.10%</td>
</tr>
<tr>
<td>1960 to 1969</td>
<td>1,464</td>
<td>15.10%</td>
</tr>
<tr>
<td>1940 to 1959</td>
<td>2,026</td>
<td>20.90%</td>
</tr>
<tr>
<td>1939-earlier</td>
<td>896</td>
<td>9.30%</td>
</tr>
</tbody>
</table>

In the chart above there are some interesting trends. The time period between 1940 and 1959 was a time of rapid growth in Narragansett. During this time period, Narragansett’s population doubled. To accommodate the new families for the Post WW II population boom 2,026 houses were built in town in just 19 years. Narragansett experienced its most rapid population increases between 1960 and 1990. Over this thirty year period, Narragansett transformed from a rural town of 3,444 to a densely populated suburban community of 14,985 residents. The age of the housing stock represents this change with over 50 percent of the current housing stock built in that period. Most recently, Narragansett has seen a decline in the number of houses being built in town. The most likely reason for this is the national recession that hit occurred in 2008. This factor is exhibited in the graph with only 206 units being built in the last 4 years.
Race and Ancestry

Race and ancestry of a municipality’s residents is an important aspect to consider in community planning. Diversity and varied family origin brings with it differing cultures and beliefs. Increasing or decreasing trends of a community’s’ diversity oftentimes plays a role in how people of the town socially interact and define themselves as Americans. In Narragansett, there is very little diversity.

As of the 2010 census, 95.7 percent of the town defined themselves as white alone with no other race combination. This overwhelming majority of white residents makes Narragansett much less diverse than Rhode Island overall with 81.4 percent claiming their race as white alone. However, Narragansett’s lack of racial diversity is not unusual in Washington County where 93.8 percent of residents claimed themselves as white only. The most distinguishing racial group that are more prevalent in Narragansett and Washington County than the statewide average are Native Americans, due to the presence of the Narragansett Indian Tribe. Although the tribe is more so associated with the Town of Charlestown, where their longhouse is located, they still make up a unique demographic in town and are well represented in the community. The chart below shows racial census data, reported in the 2010 census. In addition to Narragansett data, this report has included Washington County, and Rhode Island statewide data for comparison.

<p>| Racial Diversity in Narragansett, Washington County, and Rhode Island in 2010 |
|---------------------------------------------------------------|-----------------|-----------------|-----------------|</p>
<table>
<thead>
<tr>
<th>Race Claimed</th>
<th>Narragansett</th>
<th>Washington County</th>
<th>Rhode Island</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Percentage</td>
<td>Percentage</td>
<td>Percentage</td>
</tr>
<tr>
<td>White</td>
<td>95.70%</td>
<td>93.80%</td>
<td>81.40%</td>
</tr>
<tr>
<td>Hispanic or Latino</td>
<td>1.70%</td>
<td>2.40%</td>
<td>12.40%</td>
</tr>
<tr>
<td>Black or African American</td>
<td>0.80%</td>
<td>1.20%</td>
<td>5.70%</td>
</tr>
<tr>
<td>American Indian or Alaska Native</td>
<td>0.70%</td>
<td>0.90%</td>
<td>0.60%</td>
</tr>
<tr>
<td>Asian</td>
<td>0.80%</td>
<td>1.60%</td>
<td>2.90%</td>
</tr>
</tbody>
</table>

Since the 1980 U.S. census, the bureau has asked Americans to claim their ancestry or ethnic background in addition to their race. Ancestry refers to a person’s ethnic origin or descent, or heritage, or the place of birth of the person or the person’s parents or ancestors before their arrival in the United States. Although its intention was not to find out someone’s degree of attachment to a particular ethnicity, often times dominant ancestry groups of a community have varying levels of cultural and social presence that affect a municipality’s identity. One of the best local examples of an ancestry’s influence in a community is the Italian influence in Providence’s Federal Hill. In Narragansett, the top five Ancestry groups are identical to Washington County, and very similar to Rhode Island as a whole. The chart on the following page shows these ancestry groups and their overall percentages in the highlighted geographic scale.
<table>
<thead>
<tr>
<th>Ancestry Group</th>
<th>Number</th>
<th>Percentage</th>
<th>Ancestry Group</th>
<th>Number</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irish</td>
<td>5,550</td>
<td>25.60%</td>
<td>Irish</td>
<td>35,335</td>
<td>20.24%</td>
</tr>
<tr>
<td>Italian</td>
<td>3,670</td>
<td>17%</td>
<td>Italian</td>
<td>27,129</td>
<td>15.54%</td>
</tr>
<tr>
<td>English</td>
<td>2,610</td>
<td>12.10%</td>
<td>English</td>
<td>25,302</td>
<td>14.50%</td>
</tr>
<tr>
<td>French</td>
<td>1,517</td>
<td>7%</td>
<td>French</td>
<td>14,443</td>
<td>8.30%</td>
</tr>
<tr>
<td>German</td>
<td>1,389</td>
<td>6.40%</td>
<td>German</td>
<td>13,768</td>
<td>7.90%</td>
</tr>
<tr>
<td>Rhode Island</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Irish</td>
<td>211,879</td>
<td>20.10%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Italian</td>
<td>202,067</td>
<td>19.10%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>English</td>
<td>135,087</td>
<td>12.80%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>French</td>
<td>131,396</td>
<td>12.40%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Portuguese</td>
<td>101,095</td>
<td>9.60%</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Appendix A. Narragansett and the State of Rhode Island

<table>
<thead>
<tr>
<th>Narragansett &amp; The State of Rhode Island 2010</th>
<th>Narragansett 2000</th>
<th>Narragansett 2010</th>
<th>Rhode Island 2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Population</td>
<td>16,361</td>
<td>15,868</td>
<td>1,052,567</td>
</tr>
<tr>
<td>Population Change</td>
<td>9.18%</td>
<td>-3.00%</td>
<td>0.41%</td>
</tr>
<tr>
<td>Growth in # of Housing Units</td>
<td>11.60%</td>
<td>3.40%</td>
<td>5.35%</td>
</tr>
<tr>
<td>Percent of Housing Units Vacant</td>
<td>25.25%</td>
<td>28.21%</td>
<td>10.70%</td>
</tr>
<tr>
<td>Percent Renter Occupied</td>
<td>38.12%</td>
<td>37.23%</td>
<td>39.30%</td>
</tr>
<tr>
<td>Persons per Household</td>
<td>2.39</td>
<td>2.37</td>
<td>2.44</td>
</tr>
<tr>
<td>Mean Household Income</td>
<td>$64,621</td>
<td>$87,557</td>
<td>$71,934</td>
</tr>
<tr>
<td>Median Household Income</td>
<td>$50,363</td>
<td>$57,906</td>
<td>$54,902</td>
</tr>
<tr>
<td>Increase in Median Family Income from Past Census</td>
<td>41%</td>
<td>15%</td>
<td>30.50%</td>
</tr>
<tr>
<td>Per Capita Income</td>
<td>$28,194</td>
<td>$37,159</td>
<td>$28,707</td>
</tr>
<tr>
<td>Unemployment Rate</td>
<td>2.80%</td>
<td>8.10%</td>
<td>11.20%</td>
</tr>
<tr>
<td>Families in Poverty</td>
<td>7.80%</td>
<td>4.70%</td>
<td>8.40%</td>
</tr>
<tr>
<td>Median Age</td>
<td>44.4</td>
<td>40.4</td>
<td>39.4</td>
</tr>
<tr>
<td>Median Gross Rent</td>
<td>$765</td>
<td>$1,235</td>
<td>$882</td>
</tr>
<tr>
<td>Median Home Values</td>
<td>N/A</td>
<td>$426,200</td>
<td>$279,300</td>
</tr>
<tr>
<td>High School Graduate or Higher</td>
<td>91%</td>
<td>96%</td>
<td>87%</td>
</tr>
<tr>
<td>Bachelor’s Degree or Higher</td>
<td>42%</td>
<td>52%</td>
<td>30%</td>
</tr>
</tbody>
</table>
### Appendix B. Narragansett and other Rhode Island Municipalities

#### Five Largest Municipalities in Rhode Island 2010

<table>
<thead>
<tr>
<th>Municipality</th>
<th>2010 Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>Providence</td>
<td>178,042</td>
</tr>
<tr>
<td>Warwick</td>
<td>82,672</td>
</tr>
<tr>
<td>Cranston</td>
<td>80,387</td>
</tr>
<tr>
<td>Pawtucket</td>
<td>71,148</td>
</tr>
<tr>
<td>East Providence</td>
<td>47,037</td>
</tr>
<tr>
<td>Narragansett</td>
<td>15,868</td>
</tr>
</tbody>
</table>

#### Five Fastest Growing Municipalities in Rhode Island 2000-2010

<table>
<thead>
<tr>
<th>Municipality</th>
<th>Rate of Population Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td>West Greenwich</td>
<td>20.60%</td>
</tr>
<tr>
<td>North Smithfield</td>
<td>12.70%</td>
</tr>
<tr>
<td>South Kingstown</td>
<td>9.70%</td>
</tr>
<tr>
<td>Foster</td>
<td>7.80%</td>
</tr>
<tr>
<td>Richmond</td>
<td>6.70%</td>
</tr>
<tr>
<td>Narragansett</td>
<td>-3.00%</td>
</tr>
</tbody>
</table>

#### Five Highest Median Household Incomes 2010

<table>
<thead>
<tr>
<th>Municipality</th>
<th>Median Household Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exeter</td>
<td>$98,438</td>
</tr>
<tr>
<td>Little Compton</td>
<td>$94,866</td>
</tr>
<tr>
<td>Barrington</td>
<td>$94,300</td>
</tr>
<tr>
<td>East Greenwich</td>
<td>$93,636</td>
</tr>
<tr>
<td>West Greenwich</td>
<td>$81,419</td>
</tr>
<tr>
<td>Narragansett</td>
<td>$57,906</td>
</tr>
</tbody>
</table>

#### Five Largest Percentage Population Declines 2000-2010

<table>
<thead>
<tr>
<th>Municipality</th>
<th>Rate of Population Decline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Middletown</td>
<td>-6.80%</td>
</tr>
<tr>
<td>Newport</td>
<td>-6.80%</td>
</tr>
<tr>
<td>Warren</td>
<td>-6.60%</td>
</tr>
<tr>
<td>Woonsocket</td>
<td>-4.70%</td>
</tr>
<tr>
<td>Jamestown</td>
<td>-3.90%</td>
</tr>
<tr>
<td>Narragansett</td>
<td>-3%</td>
</tr>
</tbody>
</table>
### Five Lowest Median Household Incomes 2010

<table>
<thead>
<tr>
<th>Municipality</th>
<th>Rate of Population Decline</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Pawtucket</td>
<td>$33,904</td>
</tr>
<tr>
<td>2. Central Falls</td>
<td>$34,389</td>
</tr>
<tr>
<td>3. Woonsocket</td>
<td>$36,359</td>
</tr>
<tr>
<td>4. Providence</td>
<td>$37,237</td>
</tr>
<tr>
<td>5. North Providence</td>
<td>$48,510</td>
</tr>
<tr>
<td>13. Narragansett</td>
<td>$57,906</td>
</tr>
</tbody>
</table>

### Five Highest Median Family Income 2010

<table>
<thead>
<tr>
<th>Municipality</th>
<th>Median Family Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Barrington</td>
<td>116,295</td>
</tr>
<tr>
<td>2. East Greenwich</td>
<td>114,605</td>
</tr>
<tr>
<td>3. Exeter</td>
<td>111,121</td>
</tr>
<tr>
<td>4. Little Compton</td>
<td>106,488</td>
</tr>
<tr>
<td>5. Portsmouth</td>
<td>96,173</td>
</tr>
<tr>
<td>14. Narragansett</td>
<td>85,020</td>
</tr>
</tbody>
</table>

### Five Highest Per Capita Income 2010

<table>
<thead>
<tr>
<th>Municipality</th>
<th>Per Capita Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. East Greenwich</td>
<td>49,479</td>
</tr>
<tr>
<td>2. New Shoreham</td>
<td>48,212</td>
</tr>
<tr>
<td>3. Barrington</td>
<td>46,029</td>
</tr>
<tr>
<td>4. Little Compton</td>
<td>44,260</td>
</tr>
<tr>
<td>5. Jamestown</td>
<td>44,057</td>
</tr>
<tr>
<td>9. Narragansett</td>
<td>37,159</td>
</tr>
</tbody>
</table>
References & Other Sources of Information

United States Census Bureau
http://www.census.gov/

United States Census Bureau American Factfinder
http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml


Rhode Island Statewide Planning Program
http://www.planning.ri.gov/census/ri2010.htm

Rhode Island Department of Training and Labor State of the State Report 2011
http://www.dlt.ri.gov/lmi/pdf/stateofstate.pdf

Narragansett Parks and Recreation Department

Narragansett Department of Building Inspection

Rhode Island Department of Environmental Management
http://www.dem.ri.gov/

BankRI Traffic Impact Study Point Judith Road Narragansett, Rhode Island 2005

Proposed CVS Pharmacy Peer Review of VHB Report and Independent TIAS Narragansett, Rhode Island 2007
Buildout Analysis

The Horsley Witten Group, Inc. (HW) developed the following Buildout Analysis for the Town of Narragansett. HW utilized Appendix A - Zoning Ordinance, Town of Narragansett, Rhode Island, as a resource. HW also coordinated with municipal staff (Director of Community Development, Environmental Planner Specialist and Tax Assessor) to resolve data issues, make appropriate assumptions, and develop a methodology appropriate for the Town’s conditions and needs. This document summarizes the process behind the analysis and findings.

Purpose

A buildout analysis allows a community to test existing regulations and envision its possible future when land is developed to the maximum extent allowable which, in turn, emphasizes the need to update and revise existing land use regulations routinely, and helps officials improve planning for the future.

Process

In order to anticipate the future development and/or redevelopment of parcels within the Town, HW developed assumptions to better understand how the Town may be developed based on existing zoning and recent development trends. Using GIS, existing Town data was assembled into a user-friendly format to make projections. A summary of Buildout Analysis assumptions and proposed process was vetted through the Director of Community Development and Environmental Planner Specialist prior to conducting the Buildout Analysis, as follows:

- Parcel Shapefile (Planning Department) and Computer Assisted Mass Appraisal (CAMA) Database (Tax Assessor) were ‘joined’ based on REM_PID data field – the unique identifier.
- Wetlands_Update_2007 Shapefile (Planning Department) and Parcel Shapefile (Planning Department) were ‘intersected’ with wetland areas removed and a new ‘calculate geometry’ function provided the remaining developable area.
- Wetlands_Intersect Shapefile (HW) and Parcels Shapefile (Planning Department) were ‘joined’ based on REM_PID to include all data into one dataset (Parcels_Final).
- Coded Parcels_Final Shapefile (HW) with a new data field ‘Built’ based on the CAMA Database field Total/Assess which represents assessed value of buildings…or built. Built 1 = Built/Underutilized, Built 2 = Not Built/Vacant.
- Coded Parcels_Final Shapefile (HW) with a new data field ‘Plan_Distr’ based on the Planning District Shapefile (Planning Department). 1 = Northern, 2 = Central, and 3 = Southern sections.
**Methodology**

**Vacant Parcels**
Parcels within residential zones were selected out individually (R-10, R-20, etc.) and had to meet the minimum land area (threshold) for development. For those parcels that met this criterion, the available developable land area was then divided by the minimum lot area for that zone, to yield the number of potential future units.

**Underutilized Parcels**
Completed similarly to vacant, except that the threshold was doubled, R-80 requires 80,000 SF minimum – the threshold was 160,000 SF (80,000 for the existing structure and an additional 80,000 for the next structure). For parcels that met this criterion, the minimum lot area (80,000 SF) was subtracted from the available developable area (to account for the existing structure), then divided what was left by the minimum lot area to yield the number of potential future units.

**Constraints**
Typically, a 15% infrastructure reserve is applied to all developable parcels (reducing the available developable area) to account for roadways/setbacks, but Narragansett does not fit the typical scenario, in that it is fairly built out, and most new development would likely be infill on existing roadways.

**Findings**
Based on the process described above, HW identified a number of vacant and underutilized parcels. A preliminary buildout projection estimated the potential for an additional 578 to 1,020 units in the future. This range reflects, at the low end, the amount of ‘buildable’ land area in conforming lots (vacant) in the different residential zoning districts and, at the high end, the potential resulting from development of pre-existing lots (underutilized). In comparison, as of 2010, Narragansett had 9,470 housing units. Due to a gap in the Town’s Parcel Dataset (2004) as compared to the Town’s Computer Assisted Mass Appraisal (CAMA) Dataset (current to 2012), the potential exists that some of the parcels identified for future growth have already been subdivided and/or developed. A review of the building permits from 2005 to 2011 revealed 271 permits approved for single family residential development. These permits may account for some of the projected units at full buildout, and should be considered when understanding the potential future growth of the Town overall.

Findings by Zoning District and Planning District are summarized in the table below.
Buildout Analysis Summary: Vacant and Underutilized Parcels

<table>
<thead>
<tr>
<th>Zoning District</th>
<th>Planning District</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 (units)</td>
<td>2 (units)</td>
<td>3 (units)</td>
<td></td>
</tr>
<tr>
<td>Residential High Density (R-10A)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vacant</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Underutilized</td>
<td>21</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Residential High Density (R-10)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vacant</td>
<td>87</td>
<td>82</td>
<td>183</td>
<td></td>
</tr>
<tr>
<td>Underutilized</td>
<td>121</td>
<td>431</td>
<td>166</td>
<td></td>
</tr>
<tr>
<td>Residential Moderate Density (R-20)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vacant</td>
<td>10</td>
<td>2</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Underutilized</td>
<td>4</td>
<td>8</td>
<td>28</td>
<td></td>
</tr>
<tr>
<td>Residential Moderate-Low Density (R-40)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vacant</td>
<td>42</td>
<td>49</td>
<td>41</td>
<td></td>
</tr>
<tr>
<td>Underutilized</td>
<td>57</td>
<td>38</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>Residential Low Density (R-80)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vacant</td>
<td>37</td>
<td>24</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Underutilized</td>
<td>53</td>
<td>51</td>
<td>31</td>
<td></td>
</tr>
<tr>
<td>Total - Planning District</td>
<td>411</td>
<td>716</td>
<td>471</td>
<td></td>
</tr>
<tr>
<td>Total - Vacant (low end)</td>
<td>578</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total - Underutilized (high end)</td>
<td>1,020</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total - Overall</td>
<td>1,598</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Context for Growth**

To fully understand the reasonable context for growth in Narragansett, which is considered a beach resort community, several factors need to be further discussed. First, U.S. Census data for Narragansett (2010) includes a large seasonal demographic (24% or 2,314 households considered to be ‘seasonal’). Therefore, a reasonable expectation for growth (and the secondary impacts of this growth) over the planning horizon likely resembles a percentage of the future potential growth to be realized at full buildout. Second, it is very unlikely that every underutilized parcel will be further subdivided and developed to the maximum extent allowable. Additionally, a percentage of new development will likely be realized through redevelopment. Finally, all development, whether falling under new or redevelopment is subject to the prevailing economic climate.
APPENDIX C

Town of Narragansett Water Supply System Management Plan
Executive Summary April 2012

Town of North Kingstown Water Supply System Management Plan
Executive Summary September 2015

SUEZ Rhode Island Water Supply System Management Plan
Executive Summary January 2017
EXECUTIVE SUMMARY

APRIL 2012

Prepared for:
Town of Narragansett, Rhode Island
25 Fifth Avenue
Narragansett, Rhode Island 02882

Prepared by:
C&E Engineering Partners, Inc.
342 Park Ave.
Woonsocket, Rhode Island 02895

C&E Project No. J1111
Executive Summary

This Water Supply System Management Plan (WSSMP) has been prepared as required under Rhode Island General Laws 46-15.3, as amended and titled "The Water Supply System Management Planning Act" (Act). The legislative authority to effectuate the goals and polices of this Act has been conferred to the Rhode Island Water Resources Board (RIWRB). To this end, the RIWRB has promulgated the Rules and Regulations for Water Supply System Management Planning, October 1998, as amended to implement the provisions of the Act.

Under this legislation, the Town of Narragansett – Narragansett Water Division, as a water purveyor supplying over 50 million gallons of water per year is responsible for the preparation and adoption of a WSSMP. It is also required that the Town update this WSSMP every five years and supply information as stipulated in the Regulations.

This WSSMP has been prepared to provide the proper framework to promote the effective and efficient conservation, development, utilization and protection of the natural water resources of the State as utilized by the Town. Further, the overall goals shall be consistent with State Guide Plan Element 721 – Water Supply Policies for Rhode Island and the Town of Narragansett Comprehensive Plan. The purpose of this WSSMP is to outline the objectives of the Water Supply System Management Planning process for the Town of Narragansett Water Division, and to serve as a guide to employ the proper decision-making processes.

The WSSMP contains a detailed description of the water system and includes the policies and procedures related to the general operation and management of the water system. The Emergency Management section relates to the vulnerability assessment of the water system for use in emergency planning. It shall be incumbent upon the Town of Narragansett Water Division to implement the recommendations and procedures outlined in this WSSMP in order to comply with the overall requirements of the Act.

Background

The Town of Narragansett Water Division is responsible for day to day operation of the water system. Figures 2-1 through 2-3 in the body of the report provide an overall organizational chart.
of the Town government as well as an expanded breakdown of the Town’s Engineering Department and Water Division.

**Water System Description**

The Town of Narragansett owns and operates a water distribution system consisting of over 70 miles of water main, storage tanks, booster station, hydrants, meters and appurtenances that serve approximately 5,192 customer accounts in three (3) main areas of the Town.

Narragansett does not own or operate any independent surface or groundwater supply sources. The Town purchases all of the water it distributes on a wholesale basis from the following two (2) sources:

- Town of North Kingstown (Narragansett North End)
- United Water Company (formerly Wakefield Water Company) (Narragansett North End and South End)

The Narragansett water system is divided into three (3) subsystems consisting of the North End, South End and Jerusalem service areas. The Jerusalem service area, located adjacent to the South End of the system was interconnected by link to Galilee in 2001 by directional drilling and installation of an 8-inch line. Although both the North End and South End service areas remain completely separate, they are connected indirectly by means of the United Water Company distribution system, which has the ability to furnish water to both areas.

The Narragansett water distribution system utilizes three (3) storage facilities located throughout the service area and one (1) booster pump station located on Point Judith Road (Route 108) between South Pier Road and Westmoreland Street. This is also the location of an interconnection between the United Water Company system and the Town’s distribution system. The primary function of this station is to boost the system’s hydraulic head when the incoming supply pressure from the United Water Company system is determined to be insufficient to accommodate the required demand. The actual booster station operation is directly related to the water elevation in both the Kinney Avenue and Point Judith water storage tanks.
The system's water transmission mains are primarily involved in the conveyance of potable water between the points of water purchase, the water supply system service area, and the system storage tanks. These water mains are 16-inches and 12-inches in diameter. The exact age of all these water mains is unknown; many of the ages have been estimated from historical records however, the first water mains installed as part of this water system were placed in service circa 1938 and consisted of asbestos cement (AC).

**Policy and Procedure**

The Narragansett Water Division services 5,192 area water customer accounts consisting of 5,037 residential connections, 104 commercial connections, 10 industrial connections and 41 governmental connections. The Water Division provides water to 63% of its residents and businesses in Narragansett. Within the water service area there are eleven (11) private wells in use that could be switched to public service and added to the current volume served. Current average day customer demand is 0.758 mgd. Under projected water use for the 5-year planning period, it is expected that the average day demand will be equal to 0.771 mgd. For the 20-year planning period, it is expected that the demand will be 0.787 mgd. These projections are based primarily on population projections and do not account for significant water savings potentially realized through demand management techniques. They do, however, consider non-account water at the current rate of 14.66 percent.

It would appear that the Narragansett water system supplies are adequate to meet existing and future demands for the 5- and 20-year planning periods. The Narragansett water supply system does not operate any surface or groundwater sources of supply but, instead, purchases 100% of its water on a wholesale basis from neighboring water supply systems (i.e. United Water Company, Town of North Kingstown).

The Water Division employs an annual capital improvement program which addresses system improvement and replacement/rehabilitation projects. The most significant modifications and improvements since preparation of the previous WSSMP include the following.
- Install a new pressure transmitter at the North End water storage tank and calibrate the tank level.
- Install security cameras at the Point Judith water storage tank and a new fiber optic cable from the Point Judith water tank to the Kinney Avenue water tank for camera and remote gate access.
- Point Judith Road Booster Pump Station Upgrade: Install a new roof and siding on building structure.
- Kinney Avenue Water Storage Tank: Clean interior surfaces and inspect the tank.
- North End Water Storage Tank: Clean interior surfaces and inspect the tank. Rebuild existing 8" Ross valve and convert it from an altitude valve to a solenoid valve control.
- Point Judith Water Storage Tank: Paint exterior and interior surfaces and inspect the tank. Install a new cathodic protection system.
- Master Meter Replacement Program: Purchase and install 4 Mag master meters and install at all of the system entry points.

The Emergency Management section of this Plan (Volume II) establishes the responsibilities and authority within the Narragansett Water Division for responding to most probable emergencies and outlines specific tasks for carrying out functional and constructive solutions based on a review of the potential emergencies and risks. The procedures outlined are consistent with the goals of the State Emergency Water Supply System Management Plan. It is also intended that this document provide guidance to ensure that the primary aspects of recovery from an emergency are addressed in an organized manner to aid in an efficient response and in maintaining drinking water quality and quantity.
NORTH KINGSTOWN
WATER SUPPLY SYSTEM MANAGEMENT PLAN
EXECUTIVE SUMMARY

September 18, 2015
NORTH KINGSTOWN
WATER SUPPLY SYSTEM MANAGEMENT PLAN
EXECUTIVE SUMMARY

Introduction and Background
This Water Supply System Management Plan Five Year Update has been prepared as required under the Rhode Island General Laws 46-15.3, as amended and titled “The Water Supply System Management Planning Act” (Act). The legislative authority to effectuate the goals and policies of this Act has been conferred to the RIWRB. To this end, the RIWRB has promulgated the Rules and Regulations for Water Supply System Management Planning, October 1998, as amended to implement the provisions of this Act.

Under this regulation, the Town of North Kingstown – North Kingstown Department of Water Supply (NKWD), as a water purveyor supplying over 50 million gallons of water per year, is responsible for the preparation and adoption of a WSSMP. It also requires that the Town update this WSSMP periodically, as significant changes warrant, and every five years, or as otherwise stipulated in the Regulations.

Water Supply System Management Plans are prepared in order to provide the proper framework to promote the effective and efficient conservation, development, utilization and protection of the natural water resources of the State as utilized by the water purveyor. Further, the overall goals shall be consistent with the State Guide Plan Element 721, Water 2030. The purpose of this WSSMP is to outline the objectives of the Water Supply System Management Planning process for the Town of North Kingstown Water Supply System, and to serve as a guide to employ the proper decision making processes toward meeting that goal.

The WSSMP contains a description of the water system and includes the policies and procedures related to the general operation and management. The Emergency
Management section relates to the vulnerability assessment of the water system for use in emergency planning. It shall be incumbent upon the NKWD to implement the recommendations and procedures outlined in this WSSMP in order to comply with the overall requirements of the Act.

**Water System Description**

The Town of North Kingstown Water Supply Department, which is wholly owned by the Town of North Kingstown, was established by legislation of the General Assembly of the State of Rhode Island circa the late 1930s. The majority of the water system infrastructure was installed in the 1940s and **1950s**. Since that time, the system has expanded to meet the needs of the Town’s growing population. It is presently operated as a self-supporting enterprise fund where all operations are financed from revenues derived from various user fees.

**Water Supply Sources, Pumping Stations and Water Storage Tanks**

The primary source of raw water supply for the North Kingstown water system is groundwater. Water is pumped directly into the distribution system for consumption, or serves to provide storage capacity in the storage facilities. The water supply, at present, consists of 11 water supply wells and pumping stations that serve the Saunderstown High, Slocum High and Low service areas. The Water Department installed a new gravel packed well (Well #11) and received new source approval from the RI Department of Health in April 2005. This well helps to meet peak demands associated with development that has occurred within the Town over the past ten (20) years and provide system flexibility and redundancy. In addition to the proposed new well, a satellite well (well #5a) was constructed to replace existing well #5. The new satellite well went into service in the summer of 2005.

The NKWD does not own or operate any water treatment facilities. Historically, source water has been treated with caustic for pH adjustment and a corrosion inhibitor is added for lead and copper control. As a result of acute violations of the Total Coliform
Rule in 2001, 2002, and 2003 a disinfection pilot study, was initiated in the low service area of the distribution system (wells #1, 2, 6, 9, & 10) in the summer of 2005. The purpose of the pilot study was to evaluate the effectiveness of using sodium hypochlorite to control bacterial regrowth in the distribution system. All chemical treatments take place at each well station facility.

**Water Distribution**

The transmission and distribution system consists of approximately 175 miles of water main, constructed mainly in the 1940s and 1950s. The majority of the system consists of asbestos cement (AC) pipeline ranging in size from 6 to 16 inches. New and replacement mains consist predominantly of polyvinyl chloride (PVC) pipe.

The service area is typically operated as three (3) independent systems, operating at different hydraulic grades. The service areas are isolated by several gate valves, which remain in the “closed” position and a pressure reducing valve (PRV). The North Kingstown Water System owns three (3) booster pumping stations in addition to the eleven (11) well pumping stations. Only two of these booster pumping stations are operational. In the event of an emergency, water could be supplied to the high service system from the low service by boosting the hydraulic grade through one of these facilities and opening a gate valve. If the shortfall occurred in the Low Service Area, water could be supplied from the high service area by opening one of the gate valves that isolate the pressure zones. Sharing water between the pressure zones is complicated to some extent by the Low Service Area disinfection. The NKWD has recently constructed a PRV/Booster pumping facility that will allow us to share water between pressure zones without compromising disinfectant residuals in the Low Service Area.

The Slocum service zone is controlled by the overflow elevation of the Slocum elevated water storage tank, with an overflow elevation of 348 feet mean sea level (MSL) and a total storage capacity of 500,000 gallons, and the Saunderstown service zone is
controlled by the overflow elevation of the Saunderstown Standpipe (overflow elevation is 298 feet MSL) and a total storage capacity of 528,000 gallons. It should be noted that prior to 1996 the Slocum tank overflow elevation was equal to 298 feet MSL. In order to increase domestic service pressures in the vicinity, the original standpipe was replaced with an elevated storage tank that afforded an additional fifty (50) feet of storage height and an additional pressure zone was subsequently created.

Water storage in the low service zone is provided by three (3) facilities. The Bow Hunters Water Storage Tank (overflow = 215 feet MSL), North End Standpipe (overflow = 210 feet MSL), and the Wickford Standpipe (overflow = 210 feet MSL) each provide regional storage capacity within the low service area. Total low service area storage capacity is 4,375,000 gallons.

**Interconnections**
The NKWD maintains five interconnections to neighboring water purveyors. They include the Town of Narragansett Water System (wholesale connection), and emergency connections to Warwick Water, the Quonset Development Corporation (Quonset Point Industrial Park), the Kent County Water Authority (KCWA) and an emergency-only interconnection, which requires the deployment of a temporary line on the Jamestown/Verrazano Bridge, with the Jamestown Water District.

**Legal Agreements**
North Kingstown has approved written agreements with the Kent County Water Authority and the City of Warwick for use of the interconnections to supply water during emergencies. North Kingstown has also entered into written agreements with the Town of Jamestown periodically for emergency water supply. An attempt to enter into a new agreement with the Town of Narragansett failed to gain the support of the North Kingstown Town Council. The Water Department is unaware of any former agreement with the Quonset Development Corporation. The Water Department will commit to
initiating discussion with all interconnected communities and the North Kingstown Town
Council about the establishment of updated legal agreements.

**Metering and Non Account Water**
The source and distribution system is 100% metered. Master meters located at each
individual well/pump station meter 100% of the water produced from the North
Kingstown well field supply system. Every domestic service connection within the North
Kingstown Water System is metered at the point of sale, thus providing 100%
distribution metering. In recent years the NKWD has made the changeover to
automatic reading and billing (ARB) remote distribution metering, and more recently to
radio read meters, with the intent of recovering operating and capital costs of system
operations, reducing unaccounted-for water volumes and collecting more accurate
water use data. Additionally, all master meters at the well stations will be re-calibrated
in the current fiscal year.

Shortly after the introduction of a disinfectant to the low service area, an increase in
non-account water was evident. This was due, largely, to a scouring of biofilm in the
individual service lines which allowed historic pinhole leaks to lose water at an
accelerated rate. The department aggressively repaired leaks as they became evident
and additional undertook a leak detection survey by an outside contractor. Stabilization
in the low service area through the action of our corrosion inhibitor additive has
occurred and non-account water, which peaked in 2006 has declined. The Department
will continue to implement programs to improve the efficiency of water use and
measurement.

**Population Served**
The service population is comprised mainly of residential, commercial, and government
customers of which there are approximately 9,556 metered accounts. The total current
service population has been estimated at approximately 24,341 people. The remaining
residents not served by the public water system are served via private individual wells.
Average day demand based on pumping data for the past five (5) years is approximately 2.6 million gallons with a maximum day demand of approximately 6.9 million gallons (July 2008).

The Town of North Kingstown has grown steadily over the past twenty (20) years. It has become evident that the more recent large lot subdivision developments use a significantly greater amount of water during the summer months than older smaller lot developments. New subdivision development in the southwest region of Town and the related prevalence of in-ground lawn and landscape irrigation systems has been the major contributors to seasonal high water demands.

This reality, that water usage in this largely residential community which is driven primarily by lawn size and the preponderance of in ground irrigation systems has caused us to rethink the format of our Major Users Technical Assistance Program (MUTAP). Rather than base this important demand management component around the traditional concepts of modification of commercial & industrial water usage, NKWD has decided to focus its MUTAP on the high usage irrigation accounts as well. Details of the program are included within the body of this WSSMP.

**Demand Management**

Pursuant to R.I. General Laws 46-15-8, as well as 46-15.3-5.1, 46-15.7-3, 46-15.8-5 the Water Resources Board has promulgated the Water Use and Efficiency Rule for Major Public Water Suppliers. The rule establishes targets and methods for efficient water use and requires that each major supplier prepare a Water Efficiency and Demand Management Strategy (DMS) to achieve the identified targets. Water use efficiency targets are to be reached through the application of required methods identified in section 4.1 of the rule and through the application of selected optional methods listed in section 4.2 and/or any other methods as appropriate.
The Water Department is very cognizant of the fact that the maximum day demand is encroaching on the available safe yield of its sources. A demand management program including revisions to the water service area, twice a week lawn irrigation restrictions and customer education programs have been implemented. Recent concerns regarding the Hunt River and the impact of water withdrawal on the availability of streamflow have resulted in a more focused effort to reduce seasonal demand increases and wasteful use of water. North Kingstown continues to employ proper system management procedures aimed at increasing the overall operating efficiency of its water supply distribution system with the underlying theme of water conservation.

**Available Water and Safe Yield**

North Kingstown’s total pumping capacity in the Hunt, Annaquatucket, Pettaquamscutt Aquifer System is approximately 8.9 MGD but in reality the flow would be less given that individual well yield is less when other wells nearby are pumping at the same time. Previous Water Supply Management Plans used available water estimates published in the USGS water supply papers. These plans failed to acknowledge that the USGS reports did acknowledge the streamflow implications of pumping at these levels during dry periods or under drought conditions.

The recent estimates developed by the Water Resources Board applying the RIDEM developed Streamflow Depletion Methodology indicate that the low flow allowable depletion in the Hunt, Annaquatucket, Pettaquamscutt Aquifer System is approximately 4.8 MGD. The fact that seasonal high water demand associated with North Kingstown’s current customer base may often exceed 4.8 MG demonstrates the need to manage the use of our current supply sources and look for sustainable future sources of water supply.

**Anticipated Future Demands**

In 2012 the North Kingstown Town Council approved an amendment to the North Kingstown Comprehensive Plan that included revisions to the North Kingstown Water
Service Area. This revision is meant to aid in meeting the goals of the Water Use Efficiency Act, to support state and local efforts to direct growth to appropriate areas, and to promote protection of outlying land areas, which in North Kingstown includes our sensitive groundwater protection zones. As part of this effort, the Horsley Witten Group (HW) was tasked with preparing a buildout analysis of the revised Water Service Area. Looking at a 20-year horizon, HW developed estimates for the number of potential residential units and commercial and industrial acres that could be served and estimated the demand in gallons per day under the revised Water Service Area Map based on existing zoning designations. The analysis also took into consideration parcels outside of the revised Water Service Area that have frontage on existing water mains. The results of their analysis estimated an average day increase of 1.7 MG and a peak day increase of close to 4 MG\(^1\).

**Rate Structure and Financial Management**

The North Kingstown Town Council did adopt a Water Rate schedule that includes inclining block rates for all water customers and a "fourth tier" for residential customers to discourage excessively high water use. The rate schedule includes a base rate set at the average cost of producing and distributing water. There was consensus among the Town Council members that all or a portion of the funds generated by the fourth tier could be used to finance education and incentive programs.

The water department has prepared a Request for Proposals to update water rates and fees. The primary objective is to make certain that adequate funding is available to operate, maintain and improve infrastructure to ensure the reliability of the community’s water supply as well as the establishment of a revenue stabilization fund in accordance with state Water Use Efficiency Act.

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\(^1\) Multiplier used for peak based on 2005 water pumping data
**Emergency Management**

The Emergency Management section of the Plan establishes the responsibilities and authority within the NKWD for responding to most probable emergencies and outlines specific tasks for carrying out functional and constructive solutions based on a review of the potential emergencies and risks. The procedures are consistent with the goals of the State Emergency Water Supply System Management Plan. It is also intended that this document provide guidance to ensure that the primary aspects of recovery from an emergency are addressed in an organized manner to aid in an efficient response and in maintaining drinking water quality and quantity. This Emergency Management section was completely updated in November of 2004 to operate as a “stand alone” document capable of being utilized in all emergency situations. This was done in conjunction with the federally mandated vulnerability assessment.

Water quality protection has always been of the highest priority to the North Kingstown Water Department, and in spite of the continuing source water protection assessment which indicates that the water supply has a low susceptibility for contamination, it is understood that any supply can become contaminated. Ongoing diligent protection efforts are critical to continue to protect this critical asset.
SUEZ RHODE ISLAND
WATER-SUPPLY SYSTEM MANAGEMENT PLAN
EXECUTIVE SUMMARY

January 2017

Prepared For:
SUEZ Rhode Island
17 Arnold Street
Wakefield, Rhode Island

Prepared By:
LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Groundwater and Environmental Engineering Services
4 Research Drive, Suite 204
Shelton, CT 06484
1.0 INTRODUCTION

This Executive Summary for the SUEZ Rhode Island (SUEZ, fka United Water Rhode Island) Water Supply System Management Plan (Plan) has been developed in compliance with the regulatory and guidance documents pertaining to water supply planning, of the State of Rhode Island. The Rules and Procedures for Water Supply System Management Planning, dated October 2002, were promulgated pursuant to the requirements and provisions of Rhode Island (RI) General Laws Title 46 Waters & Navigation Chapter 46-15.3 Public Drinking Water Supply System Protection.

This Plan maintains consistency with the goals and policies of the Comprehensive Plan of the Town of South Kingstown, July 1992, as amended May 2005 and 2014, and the Comprehensive Plan of the Town of Narragansett – Baseline Report Draft 2B, dated February 25, 2016. Additional plans that have been incorporated into the update include the following:

- Water Resources Board (WRB) 2012 Strategic Plan
- State Guide Plan Element 721, Report 115, Rhode Island Water 2030
- Rhode Island State Land Use Policies and Plan – Land Use 2025
- United Water (SUEZ) Rhode Island Demand Management Strategy, prepared by Pare Corporation December 2012.

Common goals expressed in these plans such as water source protection and control of land development, have been reviewed as part of the development of this Plan and the goal of this Plan is to comply with the provisions of the Water Supply Planning Regulations referenced previously, by developing a comprehensive water-supply management plan for the SUEZ Rhode Island water-supply system. The report is also intended to achieve effective and efficient conservation, development, utilization, and protection of the water-system's resources. These objectives should be achieved in ways that satisfy the present and future needs of the SUEZ Rhode Island customer base.
The goals of the South Kingstown Comprehensive Plan and the Narragansett Comprehensive Plan are to maintain the high quality of residential life within the subject service area, while controlling the future rate of growth. These goals are recognized herein and their contents are referenced in the development of future water demand projections. Additionally, the region has opportunities for economic development through areas in and around the special planning districts of both communities, as well as within other industrial and commercial zoned portions of the water supply service area.

2.0 BACKGROUND

SUEZ is a utility located in Washington County, Rhode Island. SUEZ owns and operates a public water-supply and distribution system in a non-exclusive territory, serving portions of the Towns of South Kingstown, Narragansett, and the Village of Point Judith. Neighboring water purveyors located in the area include the Town of South Kingstown Utilities Department, the Town of Narragansett Water Division, the Town of North Kingstown Water Department, the Kingston Fire District, and the University of Rhode Island Utility system. SUEZ was incorporated in 1887 by George Alexander, Benjamin C. Mudge, George T. Lamphear, and Benjamin R. Curtis, with the intent of furnishing water to the Town of South Kingstown and neighboring communities.

SUEZ is organized as a Corporation under the Laws of the State of Rhode Island. SUEZ is a 100% subsidiary of the SUEZ Resources, Paramus, NJ, which is a wholly own subsidiary of SUEZ, Paris, France. The CEO of SUEZ is Jean-Louis Chaussade.

3.0 GENERAL SYSTEM DESCRIPTION

The SUEZ water system consists of the following components:

- Two well fields (seven well total);
- Treatment facilities (at each well field);
- Six pump stations (one at each well field and four in the distribution system (two of the distribution system pump stations are out of service);
- Five storage facilities;
- Transmission system; and
- Seven system interconnections.
The system relies on all components functioning in concert. The two well fields produce finished water by utilizing pumps and treatment facilities. The well fields have storage capacity in the form of clear wells. The finished water is then pumped through the pump stations into the transmission system. The transmission system functions to distribute water to customers and to provide or draw water from the storage facilities in the transmission system. The three storage tanks in the transmission system serve to even out periods of low and high demand. If the aggregate customer demand exceeds the total finished water produced from the well fields, the tanks will provide the additional finished water to meet demand.

3.1 Water-Supply Sources

The singular source of raw water supply for SUEZ water system is groundwater. Two well fields accommodate 100% of the service area demand. An emergency source of water is from interconnections with adjacent water systems. After treatment at the well fields, water is supplied either directly into the distribution system for consumption, or serves to augment storage volumes within the storage facilities.

Overall, the operation and productive capabilities of the system to meet the needs of the water service community have been efficient and capable, with the ability to supply potable water of good to superior quality to the service population being readily maintained.

3.2 Water Treatment Facilities

Lime is added to provide for the adjustment of pH values for corrosion control, which in effect, raises the pH from an initial value of approximately 5.8 to approximately 7.6. Sodium hypochlorite is also injected into the water at both locations to provide for disinfection in such a manner as to maintain a 0.5 mg/l free chlorine residual. In addition, zinc orthophosphate is also added to the water for corrosion control and raw water is passed through an aerator for the removal of carbon dioxide. Full emergency power is available through an emergency generator at each well field.

3.3 Storage Facilities

The SUEZ water system includes five storage facilities. The clear wells at the well fields function as storage facilities and there are three remaining storage facilities located.
throughout the service area. All storage facilities are constructed of steel, with the distribution facilities of standpipe configuration, with the exception of one tank, and the clear wells of reservoir types. The status of all three-distribution storage facilities are continuously transmitted via telemetry to the control system which responds to changes in storage levels. The controls are set up in the form of a matrix which allows selection of the water level in any of the three distribution storage tanks to operate the booster pumps at either or both of the well fields. This remote transmission allows a continuous charting and digital display of facility water levels at the control location or can also be monitored via computer phone modem to the SUEZ office for management overview as well as for the Chief Plant Operator to monitor from his home or vehicle.

3.4 Pumping Stations

The SUEZ water-supply system includes six booster pumping stations, one at each well field and four in the within the service area. The booster stations provide the means by which water from the well fields can be supplied to the system. Operation of the pump stations is automatically controlled by the water level in any of the three distribution storage facilities.

3.5 Raw Water and Finished Water Transmission Facilities

The system's water transmission mains convey potable water between the well pumping stations, booster pumping stations, the water-supply service area, and the system storage facilities. The system employs a well dispersed and generally strong grid layout in an effort to provide and maintain satisfactory reliability and redundancy. The entire distribution system is fully interconnected. This allows the system to operate mostly as a single pressure zone. These components of the treatment and transmission facilities are routinely monitored, repaired and/or upgraded to maintain performance reliability.

SUEZ customer service representatives are also trained to be attentive and alert to possible leaks whenever in the vicinity of customer components (i.e., meter, curb stop, hydrant, valve). In addition, storage facilities, production records, and distribution system pressure are continuously monitored on a daily basis in an effort to detect unusual or abrupt changes in performance.
3.6 Distribution Facilities Including Low and High Service

The entire distribution system is fully interconnected, with the overflow elevations of the distribution system storage tanks being operated to assist with the control pressure in their zones.

3.7 Planned Extensions

There are presently no major planned extensions of the water distribution system.

3.8 Interconnections

SUEZ currently maintains a total of seven system interconnections with neighboring water utilities. Four of the interconnections are maintained with Narragansett and the remaining three with South Kingston.

3.9 Population Served and Projections

SUEZ supplies a significant portion of the Towns of Narragansett and South Kingstown, which includes a various array of structures (i.e. residential, commercial, industrial, governmental), that are serviced by SUEZ.

All undeveloped areas within the water service area are eligible to be served as the demand requires, and depending upon the circumstances involved, SUEZ or the property developer may extend existing water main lines and associated appurtenances necessary for the adequate supply of water into those areas. Extension of water distribution lines outside of the present service area is contingent upon formal approval of SUEZ, and is subject to the hydraulic feasibility of the current system to accommodate any such extensions. In either case, the new mains would become the property of SUEZ following satisfactory installation, testing and acceptance.

There continues to be a portion of the service area which depends primarily on private well systems. The majority of these private wells are associated with single family residences; however, some wells provide water to commercial and industrial facilities within the service area. These private well systems and their service population would also be eligible to be served by the SUEZ system; again, contingent upon formal approval of SUEZ.
Table 1 presents the current and projected services populations for the SUEZ water-supply system.

Table 1

<table>
<thead>
<tr>
<th></th>
<th>2015</th>
<th>2020</th>
<th>2035</th>
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<td>Present and Projected Service Population</td>
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<tr>
<td>2015</td>
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</tr>
<tr>
<td>2020</td>
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</tr>
<tr>
<td>2035</td>
<td>20,923</td>
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</tr>
</tbody>
</table>

3.10 Major Users

In addition to its two wholesale customers, SUEZ supplies water to three other large users with a demand greater than 3 million gallons per year (South County Hospital, URI School of Oceanography and Meadow Brook Apartments). These major users are involved in a range of operations from residential, governmental and health services. The water consumed by the South County Hospital is the most significant of all the major users.

3.11 Metering

3.11.1 Master Meters

All of the water pumped from the SUEZ groundwater supply system is metered at each well field. These master meters provide for 100% source metering and are provided with corresponding transmitters which allow a continuous charting and digital display of well field production, at both sites. These meters are checked and calibrated annually.

3.11.2 Distribution Meters

Every residential, commercial, industrial and government customer serviced by SUEZ’s water-supply distribution system is metered, thus providing 100% distribution metering. Wholesale meters are read daily and billed on a monthly or quarterly basis. Residential users are read quarterly on a three month cycle, and billed quarterly. The majority of commercial, industrial, and seasonal users are read on the same three month cycle and billed quarterly. The larger users are read and billed monthly.

Meter testing and calibration is provided by SUEZ on a request (from Owner) basis, in the event of meter failure, or when owner use dramatically changes. Additionally, random
meter testing is performed by SUEZ personnel as manpower requirements dictate. Small user meters (less than 2") are tested and calibrated on a twenty year cycle or whenever the meter register rolls over, whichever occurs first. This testing is performed by an outside contractor. Maintenance of these meters is generally not performed unless it can be accomplished efficiently. Normally, due to the fact that SUEZ does not maintain a meter repair shop, the meters are simply replaced. Larger meters (2" and above) are tested and calibrated every two years. Wholesale meters are checked and calibrated annually. This work is performed by an outside contractor through competitive bidding. Typically, the same company performs necessary repairs in a timely manner.

3.12 Legal Agreement
In addition to the implied legal obligations associated with the SUEZ corporate regulations defining the responsibility of SUEZ to furnish potable water to its customers, the company is also legally bound to provide water to its wholesale customers. The company maintains legal agreements with the Town of South Kingstown Utilities Department and the Town of Narragansett Water Division for the supply of water. While SUEZ is regulated as a public water supply, no additional specific legal obligations or contract agreements exist regulating the SUEZ's provision of water.

3.13 Unaccounted-For Water
Unaccounted for water use consists of the difference in the sum of the volume of water metered at the point of supply and that recorded at all points of sale. This unaccounted for water typically consists of water consumed for both authorized and unauthorized uses. Authorized uses include water main/storm drain flushing, sewer/street cleaning, landscaping in public areas, construction sites, etc. It also includes water which is metered but not billed, and therefore is not reflected in the recorded volumes of water sold. Unauthorized uses typically include system leaks, malfunctioning meters, meter pit bypasses, water theft, other unmetered public use, etc. SUEZ's estimated percentage (%) of system unaccounted-for water has stabilized over the past three years, and is currently 4.0%, well in line with the desired State goal of 15%.
It should be noted, that SUEZ has several programs in existence which endeavor to promote the maximum efficiency of its water use and curtail even further the degree of unaccounted-for water.

3.14 Demand Management

3.14.1 General

Demand Management consists of those conservation measures which achieve long-term water savings by providing incentives and technical assistance to consumers as a means of improving efficiency of water use and reducing waste. Such water conservation measures, whereby suppliers and/or local water utilities and government work to influence water consumption, is the most fundamental approach to water conservation, since the ability to conserve water lies primarily with the water user. Consequently, the success of these measures is highly dependent upon consumer participation and cooperation.

The demand management program proposed herein will therefore focus predominantly on those measures and approaches which achieve permanent long-term water savings without requiring major user habit changes. The five (5) basic demand management techniques are as follows:

- Installation of water conserving, low-flow plumbing devices (retrofit) and revision of plumbing code regulations.
- Promotion of water recycling and efficient use and reuse; provision of technical assistance to industrial, commercial and governmental users.
- Public education on water conservation and water supply issues.
- Appropriate use of fees, rates and charges.
- Water use regulations and restrictions.

The most effective measures are those that achieve long-term water savings without great expense, effort or inconvenience to water users (e.g. installation of water-saving devices and technologies, manufacturing process changes, or pressure reduction). In comparison, the effectiveness of water use restrictions and other methods that require intensive participation or habit changes are likely to diminish over time.
3.14.2 Goals

The demand management goals of SUEZ are divided into short-term and long-term goals, as follows:

*Short-Term Goals*

1. Minimize peak demand use requirements
2. Implement system-wide residential retrofit program

*Long-Term Goals*

1. Minimize average demand use requirements
2. Provide water-use audit services to all major users

One hundred percent (100%) of the water delivered to the SUEZ water system customers is metered.

3.15 Supply Management

The SUEZ system's historic water production volumes for the past five years (2010 - 2015) are presented below.

<table>
<thead>
<tr>
<th>Table 2</th>
<th>Summary of Historic Water Production (million gallons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>1,128.9</td>
</tr>
<tr>
<td>2011</td>
<td>1,079.9</td>
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<td>2012</td>
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<td>2013</td>
<td>1,044.5</td>
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<td>2014</td>
<td>1,013.9</td>
</tr>
<tr>
<td>2015</td>
<td>1,035.3</td>
</tr>
</tbody>
</table>

3.16 Available Water

It is the overall objective of SUEZ to ensure the availability of an adequate supply of potable water to meet the existing and future needs of its customers. This section will focus on presenting the quantities of potable water available to the water supply system at present, and at the projected 5- and 20-year planning periods.
3.16.1 Aquifer Yield

Currently available yearly production data from SUEZ indicates that to date, the peak demand year for its well fields that tap Mink Brook Aquifer (MBA) in the Mink Brook watershed occurred in 2012. Approximately 1,131 million gallons were pumped that year from the MBA (i.e., an average of 3.10 mgd). Given the historical ability of the SUEZ wells and MBA to sustain pumpage at about 3 mgd, and the current land-use and recharge characteristics of the hydraulically connected Chipuxet River watershed and associated glacial outwash deposits, the current and projected SUEZ demands are considered to be sustainable by the local ground-water resources.

Although the ability to calculate an exact aquifer yield value for the MBA and associated lower portion of the Chipuxet River watershed is limited due to the currently available site-specific hydrogeologic data, references indicate that at the 50th percentile, the estimated gross yield of the Chipuxet River watershed (from baseflow calculations) during the typical annual lowest-flow condition month of September is approximately 15.90 mgd. As previously discussed, available historic pumpage data for the SUEZ Wells during the peak demand summer months (including September) indicate that some portion of the 15.90 mgd annual low-flow yield in the Chipuxet River basin is available as recharge (either as direct inflow or as replenishable storage) to the MBA and is expected to continue to be available in order to meet the projected future average daily demand.

3.17 Safe Yield

The State of Rhode Island, Division of Water Supply Management does not define Safe Yield for groundwater sources. Instead, the capacity of the well or well field is evaluated to determine if adequate supply is available. In conformance with the Division guidelines, 90% of the well/well field capacity can be utilized towards determination of the system’s available water.

3.18 Anticipated Future Demands

3.18.1 Future Demand Analysis

It should be noted that the development of future projections assumed reasonable estimates for unaccounted-for water and would therefore, reflect the total amount of water
supply needed (i.e. total pumping supply) to meet overall system demands. It is anticipated that the present levels of available water will be more than sufficient to accommodate the expected growth in the system average and maximum day demands.

When developing these scenarios, no consideration was made for anticipated "water savings" other than reduction in the level of non-account water, therefore, allowing the demands to be evaluated on a worst case scenario. It is anticipated that a future water conservation target in the region of 10% will only help to further ensure an efficient and adequate supply of source water throughout the 5- and 20-year planning horizons.

3.18.2 Growth in Demand

The intent of this section is to project the future water demands expected of the SUEZ water-supply system for the 5- and 20-year planning periods. To best project future water use, several factors must be considered and evaluated for both the Town of South Kingstown and Town of Narragansett portions of the service area; some of which include changes in population density, industrial and commercial water use and development, wholesale of water to adjacent systems, seasonal influx, economic development, changes in the service area, land use, water quality, water use rates, and conservation measures.

In an effort to quantify the likely growth expected in SUEZ demands during the planning horizons of this plan, the Narragansett and South Kingstown Community Comprehensive Plans, completed in recent years, were reviewed. These documents focus primarily on current and future trends in each Town, and allow a determination of the availability of opportunities for population and economic growth in both Towns. The potential impact that these opportunities will likely have on future growth of both wholesale users, as well as within SUEZ’s own service area, have been analyzed.

3.18.3 Narragansett

The Town of Narragansett Comprehensive Plan – Baseline Report Draft 2B, dated February 25, 2016, presents a preliminary build out projection that was used to estimate the current growth. The year 2010 US Census stated the population of 15,868 represents a decrease in population from the 2000 census of 16,361. Population projections prepared by the Rhode Island Division of Planning (RIDP) were developed for the 5-year (2020) and 20-year (2035) planning
periods. The RIDP estimates that the town population in 2020 and 2035 will be 15,988 and 16,411. This would amount to an approximate population increase of approximately 3 percent between 2010 and 2035. The impact to demand should be minimal over the short term as a result of this increase.

The majority of future growth in the Town is expected to consist of residential development which continues to be the Town's dominant land use. Economic development in the Town is not expected to increase significantly during the next 5- to 20-year periods due to limited availability of developable industrial land.

An analysis of current and future Town land use mapping indicates that much of the area served by the SUEZ distribution system in the Town is located in Low density, Moderate-Low density and High density developed areas, with small commercial and minimal industrial regions. The impact of expected growth in the SUEZ service area within the Town of Narragansett will largely result from expansion to its residential consumer base, with minimal growth expected in commercial and industrial sectors. The Narragansett Comprehensive Plan also indicates that an additional 1,009 year-round homes could be built on exiting vacant or underutilized lots. When or if these homes will be constructed is uncertain. It is assumed that it will take 20 years for the Town to be fully built out, within the time frame of the Comprehensive Plan.

### 3.18.4 South Kingstown

A review of the South Kingstown Comprehensive Community Plan (Updated 2014) was completed to develop a basis for understanding current and anticipated land use practices in the Town. The plan indicates that 74% of all Town land are zoned residential and less than 1% is zoned commercial.

The plan indicated that population in the Town increased significantly between 1970 and 1990, with a 20.7% increase in each decade. Between 1990 and 2000, the population increased by 13.4% and between 2000 to 2010, the population increased by 10%.

The year 2010 US Census stated the population as 30,369. The Rhode Island Statewide Planning Program prepared population projection estimates for the 5-year (2020) and 20-year (2035) planning periods. The RIDP estimates that the population in 2020 and 2035 will be 32,756 and 36,734. This would amount to an approximate
population increase of 9 percent between 2010 and 2020 and an approximate
population increase of 9 percent between 2020 and 2035. This estimate is consistent
with the slowing population growth trend over the last few decades. Similar to Narragansett,
this gradual slow growth will be considered in the short term demand projections but will
become more significant for the 20-year planning period.

Commercial growth in the Town was noted as growing at a rate of 1.05% during the
1990's. Given the limited availability of commercial space, special development districts have
been established along Route 1, Main St., and Highway commercial areas in an effort to
revitalize existing commercial space.

Industrial development in the Town has been very slow between 1990 and 2000
which is largely consistent with the trend in the State of Rhode Island and in the Northeast
region. The plan concluded that the potential for future industrial growth in the Town will be
a challenge in the decades to come.

A review of the Town land use mapping and comparison to the existing water supply
service area indicates that the greatest impact on future growth of the SUEZ system will likely
result from increased development of residential land within and adjacent to the current SUEZ
service area.

**SWRI Service Area**

The impact that the development in both Towns has had on the growth of SUEZ's
own service area can be evaluated by considering the increase in the system's number of services
over the past 10 years. The annual number of services added to the system has been relatively
constant and can be categorized as slow steady growth which is consistent with the previous
decade as well. The average number of new system-wide services added annually over the past
10 years is 44.8. This *services growth rate* compares favorably with the preceding
development growth rates discussed for both Towns. In light of that, it appears that the rate of
growth of both wholesale user service areas closely correlates with that of SUEZ's own
service area. It is, therefore, proposed that the ten year historic rate of growth in SUEZ system's
production volumes be utilized as the methodology to predict the estimated future demands
of the SUEZ system.
As the above discussion suggests, quantifying the effects of increased development on future water use demands on the SUEZ water-supply system is a complicated task due to the multitude of variables involved. Given the desirability of both the Town of South Kingstown and Narragansett as residential communities along with the availability of developable residential properties in both Towns, it is expected that the existing rate of growth in production volumes will likely continue for a number of years. It is expected that the major component of this growth will result from residential expansion, with minimal industrial, and small commercial growth expected.

The expected system demand for the 5- and 20- year planning periods is presented in below.

Table 3

Summary of Project Water Demand
(Million Gallons)

<table>
<thead>
<tr>
<th></th>
<th>2015</th>
<th>2020</th>
<th>2035</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>994</td>
<td>1,150</td>
<td>1,247</td>
</tr>
</tbody>
</table>

3.19 Capital Improvement

SUEZ continues to employ an aggressive pro-active Capital Improvement Program of water main replacement/rehabilitation which has been in effect for several years, with the intent of replacing existing low capacity mains and water meters, upgrading system storage facilities, and improving overall system reliability.

3.20 Rate Structure

The current rate structure provides a separate rate structure for assessing charges to residential users, commercial, industrial and municipal users, among others. The rate structure for each consists of a combination of a Customer Service Charge (Flat Rate) plus a Volume Charge (Block Rate). The Customer Service Charge is applied based on the size of the customer's meter, with the Volume Charge computed based on the actual volume of metered consumption.

In the case of residential use the Volume Charge is computed on an inclining block rate structure, with the user paying more per unit of water as consumption enters a higher
block. This type of rate structure encourages the conservation of water by rewarding the user who minimizes use. The same incentive is not provided to commercial, industrial or municipal users however, who are assessed at a fixed rate structure.

3.21 Financial Management

SUEZ is a privately-held water utility, operating under the laws and regulations of the State of Rhode Island, and subject to regulation by the Rhode Island Public Utility Commission and SUEZ utilizes an accrual system for recording its financial transactions, and all books of record are kept in compliance with generally accepted accounting principles. It is the intent of SUEZ that the costs (expenses, including depreciation) of providing the services to its users on a continuing basis be financed or recovered fully through user charges.

SUEZ strives to meet the following objectives:

a) to provide its customers with potable water of high quality and sufficient quantity to meet all of their needs, while simultaneously providing excellent customer service, all at a reasonable cost.

b) to provide our employees with challenging opportunities in the water industry, with fair and reasonable compensation.

c) to provide our stockholders a reasonable return on their investment.

All general operations of SUEZ are financed from water revenues in the form of user fees. Capital improvements to the water system are initially financed internally by generated funds of SUEZ. Where sufficient funds are not available internally, a contribution to the equity of SUEZ is made by parent company.

3.22 Emergency Management

SUEZ has an approved Emergency Management Plan. The plans established the responsibility and authority within SUEZ for responding to potential emergencies and outlines specific tasks for addressing such emergencies.
3.23 Water-Supply Source Protection

SUEZ has prepared a Water Quality Protection Plan that includes the necessary components of the Rhode Island Wellhead Protection Program (WHPP). SUEZ has ongoing strategies to ensure the continued protection of SUEZ’s water-supply sources. A primary goal of these strategies is to provide for the protection of raw water supplies in those areas subject to the influence of the groundwater wells. This protection is accomplished fundamentally by owning and controlling sufficient land area around each of these wells to preclude as much as possible the threat of raw water contamination. SUEZ’s two well fields are both located on over 30 acre parcels of land owned by SUEZ. In addition, SUEZ has purchased 47 acres of land in the vicinity of one the well fields. Ownership of the property has been transferred to a land trust with SUEZ dictating permissible uses. A second parcel of 30 acres of land in the same vicinity has also been purchased and turned over to the land trust.

The RIDEM has delineated WHPA for all public wells in Rhode Island. The WHPA overlies the MBA and encompasses 100% of SUEZ’s water. There have been no changes to factors affecting water quality in the SUEZ watershed since the 2003 Source Water Assessment.

3.24 General Policies

The Plan is intended to be consistent with the goals and policies of the Town of South Kingstown and Narragansett Comprehensive Plans, as they pertain to water supply and management. Conversely SUEZ’s Engineering and Water Operations personnel shall promote consistency between the contents of this Plan and the policies of these documents. For example, the cooperative efforts required with respect to source protection were noted earlier in this plan, and such joint efforts should progress as appropriate. Also, at present, prior to any type of water main extension or new development being serviced, local planning board approval must be issued.

Future land uses, zoning requirements, growth projections and other areas of mutual interest, with regard to service area expansion, shall be consistent with the ability of the water supply system to accommodate the expected potable water requirements of the system.
In addition, SUEZ shall continue to pursue the accommodation of the current and future needs of its water supply system through the coordination of its efforts with those of its neighboring water supply utilities. SUEZ has relationships with the South Kingstown Utilities Department, the Town of Narragansett Water Division, and the North Kingstown Water Department. In the case of an emergency, joint efforts will be employed to allow each utility to help one another. Future endeavors shall include efforts in regard to regional cooperation with respect to aquifer protection with adjacent towns, and state and federal agencies, system interconnections, service area expansion, capabilities to assist in the response to water supply emergencies, the potential for regionalization, etc.

cmm
January 10, 2017

H:\United Water Rhode Island\2016\Executive Summary.docx
Town of Narragansett

Comprehensive Plan: Roadmap

Approved by the Narragansett Planning Board September 6, 2016
Adopted by the Narragansett Town Council September 5, 2017

Prepared by:
Horsley Witten Group, Inc.
McMahon Associates, Inc.
# Narragansett Comprehensive Plan • Roadmap

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I. INTRODUCTION

A. What is the Narragansett Comprehensive Plan?

The Narragansett Comprehensive Plan establishes a roadmap for land use and local government policy over the next 20 years. While the comprehensive plan is required by the Rhode Island Comprehensive Planning Act (R.I.G.L. 45-22.2), it is first and foremost a policy document created with the public that describes a shared vision of the community at large. Goals and policies are established to help decision makers determine:

- How development looks and where it happens,
- How the Town can protect environmentally sensitive areas as well as important historic buildings and landmarks,
- How we drive, walk, and bike around town,
- How the Town can support business development, and
- How the Town can meet future demands on town services.

The Plan’s most important goal is to protect the qualities in Narragansett that make it a great place to live!

The Narragansett Comprehensive Plan is made up of three volumes: The Baseline Report, The Roadmap, and The Action Plan. The Baseline Report was prepared at the onset of the Comprehensive Plan update process in 2013 with minor revisions prior to adoption. It is a snapshot of existing conditions as they relate to neighborhoods, parks, roadways, public services and facilities, the local economy, and historic and natural assets, among other things that define the quality of life in Narragansett. It includes inventories as well as projections of future needs and/or demands. This information is collected from federal, state and local data sources such as the U.S. Census, Rhode Island Department of Transportation, Rhode Island Department of Environmental Management, and the Narragansett Public Works Department. Verification and vetting of these data were done through town staff interviews, public meetings, outreach to key stakeholders, and review of existing reports and other documentation. The purpose of The Baseline Report is to assess local trends, identify needs, and provide the foundation for sound policy development moving forward.

This document, The Roadmap, is the primary policy document for the comprehensive plan. It begins by describing the community vision for Narragansett. It talks about the formative issues that will shape policy for each of the focus areas within the plan (e.g., Housing, Economic Development, etc.). These issues are identified during public meetings and workshops as well as interviews with town staff and other key stakeholders in town. Finally, The Roadmap lays out the framework for how the Town will reach its vision through established goals and objectives. It is the primary document used by decision makers and incorporates short, mid and long-term action items.

The final volume, The Action Plan, details individual action items needed to meet goals and objectives. Responsible parties, such as town departments or boards and commissions, are identified along with implementation timeframes. Since the Comprehensive Plan has a 20-year outlook, action items are divided into implementation periods that are short term (to be completed within five years), mid-term (to be completed between five and 10 years), and long-term (to be completed in 10 to 20 years).
B. A Vision for Narragansett

In 1994, the citizens of Narragansett embraced the following vision:

The vision of Narragansett’s Comprehensive Plan is embodied in the Plan’s primary goal statement as derived from community participation. This vision holds forth that Narragansett’s physical beauty, unique among New England coastal towns is a result of its seaside residential character, miles of beaches and craggy coastline, islands and peninsulas, open spaces, and the richness of its Native American, Colonial Plantation and Victorian resort heritage. This character must be protected, preserved and enhanced for the future well-being of the community.

An efficient circulation system brings the Town within easy commuting distance of major employment centers. These attributes, together with a quality school system and the Town’s seaside identity, make Narragansett very attractive for new housing and associated commercial and professional services. The very assets that make the Town such a desirable place to live and vacation, have been and will continue to be threatened by inappropriate development.

Protecting Narragansett’s physical identity must go hand in hand with the desire to retain its fiscal stability. The Town must ensure that it is able to fiscally accommodate future growth without becoming insolvent or placing an unbearable financial burden upon its residents. This Plan seeks to protect Narragansett’s assets by encouraging change that enhances these assets and discouraging change that detracts from the Town’s character. The Town will assume a stewardship roll to ensure that the community’s vision for the Town’s future is realized.

The vision was carried forward when the Town updated the plan in 2005, and it continues to resonate with local residents today.

C. Since the 2008 Comprehensive Plan

Implementing the Comprehensive Plan is a continuous effort. Appendix A contains a review of the actions presented in the 2008 Plan and their status. As part of the update process, the Town reviewed what it said it would do in 2008, what was completed, and of those items that were not done,
determined if they were still relevant. Actions that still were relevant were carried forward into this plan and assigned a new timeframe for implementation. Below is a sample of actions the Town completed from the 2008 Comprehensive Plan:

- Undertake a planning process to address long-term space needs for the Police and Fire Departments by conducting a spatial study and developing options.
- Reduce pollution from “nonpoint” sources through innovative strategies by construct stormwater quality facilities in Narrow River (three major projects were completed since 2004).
- Adopt historic districts and effective historic district regulations by officially designating historic district in Pier/Ocean Road District.
- Undertake programs to prioritize local road maintenance needs by conducting study of conditions of local road system (completed in 2012).
- Encourage non-vehicular transportation modes by working with state to develop bike paths, pedestrian facilities, and hiking trails. On an ongoing basis, the Town jointly seeks grants and assist volunteers with pedestrian projects with such groups as the Eagle Scouts and Friends of Canonchet.
- Restore and maintain The Towers building, Kinney Bungalow, Windmill at the Camp, Maintain physical appearance of farmhouse at Clarke Farm by reinvesting in revenue-producing public buildings. Retain historic appearance of town-owned buildings, if applicable. Work has been done on The Towers and Kinney Bungalow since 2008.
- A tree ordinance was adopted in 2007.
- Consider developing a multi-purpose outdoor recreation field by studying the use of unused recreational land (completed in 2011).

D. Guiding Principles

Throughout the Comprehensive Plan update process, either at public workshops or staff interviews, residents shared many common values. To ensure that they endure beyond the update process, they were used to develop “guiding principles.” Guiding principles are markers by which to evaluate goals, policies and actions of the Comprehensive Plan. They are also used by local decision makers to determine if they are moving towards the shared vision for the Town. They help answer the question “What should Narragansett be in the future?”

1. Maintain Local Character and Uniqueness

It is indisputable the passion locals have for Narragansett. Residents and visitors are attracted to its natural beauty and seaside character. Maintaining the look and feel of Narragansett as a coastal community is a very high priority. Its natural coastline, recreational areas, quiet residential neighborhoods, historic districts, and small businesses define Narragansett. With limited land for new development, development and redevelopment initiatives should be creative and complement the uniqueness of each neighborhood. While single family homes may be appropriate for some areas of town, creating true neighborhood centers require mixing commercial, office and residential uses where people can live, work, recreate, and socialize within an easy walk or bike ride.

2. Enhance the Year-Round Community

Narragansett has much to offer. In addition to its seaside charm, it has a high-ranking school system, comparatively low property taxes, and diverse municipal services, which includes an ever-growing library. The Town’s year-round population, however, has diminished in the past decade and many
commercial proprietors find it difficult to sustain their businesses because of the highly seasonal community. Encouraging year-round residency will strengthen community spirit and expand the customer base for existing and potentially new businesses, particularly in the non-summer months. One way to do this is to increase the number of available long-term rentals. Compared to other communities in Washington County, a significant portion of the Town’s housing is rented on a seasonal basis. This is reflective of the Town’s rich history as a summer tourist destination and as a short-term settling place for college students during the academic year, and each of these groups brings with it certain qualities that contribute to the Town’s character. But potential new residents have difficulty finding 12-month rental options. The financial attractiveness of seasonal versus yearly rentals and the higher costs of purchasing a home in Narragansett are issues that need to be balanced and are addressed in this Plan.

3. **Balance Protection of Natural Resources with Economic Growth**

Narragansett is a coastal community where its natural resources greatly contribute to residents’ quality of life, but also support and bolster the local economy, including tourism and the fishing industry. As economic development opportunities grow, natural resources should not be compromised. Careful management of the coastline, ponds, rivers, trails, and forested areas will maintain and enhance these resources to ensure healthy habitats and biodiversity. Management also includes public access to these resources to be enjoyed and appreciated. Educating and promoting the functions and values of the natural environment will lead to stewardship and responsible usage.

4. **Reestablish the Town Center**

Time and time again, residents and business owners have voiced their support of reestablishing the Pier as the town center. A distinctive town center makes you feel that you have arrived at Narragansett. Most traditional New England towns have a centralized area of commerce that includes a concentration of civic buildings and the natural place for this is around the Pier area, which at one point was its center. Reestablishing a town center touches on economic development, public services, housing, and transportation. Integrating all of these physical aspects into a town center can facilitate social cohesion and civic pride and give Narragansett a sense of place for local residents and visitors.

5. **Recognize Changing Demographics**

The age of Narragansett’s population has shifted. The 30 to 45 year olds, mostly young families that lived in town in 2000, stayed, but a new generation did not take their place. As a result, the number of residents 45 and older rose, and those under 45 were lost. This triggers two objectives. First, the Town should recognize that in the future it will need to accommodate a larger senior population, but one that has different aspirations than previous generations. The Baby Boomers may be more active and interested in different programming and activities that typical senior centers have offered in the past. Further, many close to retirement were hit pretty hard by the Great Economic Recession of 2008, and may be working longer than they anticipated. Baby Boomers are also not interested in living in “55 and older” developments as they age, but part of the community, in smaller homes where they can walk to different destinations. Second, the Town’s desire to enhance a year-round community also leads to attracting younger individuals and families that are looking for housing they can afford. Rhode Island’s younger population is also becoming more culturally diverse. Households tend to be multi-generational and housing opportunities locally should reflect these needs.
E. Public Input and Outreach

Public input is a critical part of the comprehensive plan update process. The plan sets out a vision for the Town’s future and is based on the needs of its residents. Understanding those needs is done through a public process, where information is shared with the public for verification and input. The public process also informs residents about the update. Outreach efforts help the public understand the role of the comprehensive plan and why they should care about what it says.

There are many different ways to reach out to the public and equally as many ways to get feedback and input from them. For this update process the Town held two public workshops, developed a project website, and conducted interviews with local stakeholders. The public could provide their comments and information at the public events as well as mail, email and phone calls. Town departments were also involved in the process and provided comments and points of discussion.

1. Public Workshop #1

The first public workshop was held on September 13, 2012. Its purpose was to identify priority issues in specific geographic areas of town. It opened with an overview of the Comprehensive Plan and the update process. Examples of the types of issues and activities that are generally addressed in the comprehensive plan were discussed as a way to educate the group about the role of the comprehensive plan and why it is important to the community. The topic areas presented were:

- Land Use
- Economic Development
- Community Services and Facilities
- Energy
- Natural Hazards
- Transportation and Circulation
- Housing
- Historic and Cultural Resources
- Natural Resources
- Open Space and Recreation

For the purpose of the Narragansett Comprehensive Plan and the exercise that evening, the town was geographically presented in three planning districts:

- **North End**: from the town line with North Kingstown to Sprague Bridge,
- **Central Area**: from Sprague Bridge to approximately Long Cove Camp Road east to Windmere Road, and
- **South End**: Long Cove Camp Road east to Windmere Road south, including the Salt Pond islands and Jerusalem.

Around the room were six tables. Each planning district was represented by two tables. Participants were asked to count off and were assigned a planning district. After 20 minutes, they moved to another district’s table. This repeated one more time to ensure that each participant visited a table for each planning district.

At each table, participants were asked to identify which comprehensive plan topic area was the first and second priorities for that planning district. A board listing each topic area was marked with a dot to tally the final results. Participants were then asked to explain why these were priority issues. Responses were recorded and reported back to the full group at the end of the evening.
The following summarizes the first and second priority issues. Further details of what was said and the issues raised are found in Appendix B.

North End: In the North End, the number one priority issues were related to land use followed by economic development and transportation/circulation. The top secondary issues were transportation/ circulation and natural resources.

Central Area: The top priority issues in the Central area were related to economic development followed by historic and cultural resources and natural features. The top secondary issues were land use and transportation/circulation.

South End: Economic development was the top priority issue for the South End, followed by housing. The top secondary issues were housing and natural resources.

2. Public Workshop #2

The second public workshop was held on January 24, 2013. Its purpose was to present the initial baseline data and findings and receive comments on it. It also allowed the public to talk about issues emerging for each topic area town-wide and prioritize them.

To help stimulate conversation, key pad polling was used for a “Did you know?” exercise, where participants were asked to answer questions about facts and figures presented in draft The Baseline Report. They were then showed a series of photographs that depicted different types of buildings and asked what parts of town this type of development might generally be most appropriate.

The participants then broke out into small groups and talked about topical issues. Each discussion was led by a series of questions. Afterwards, each person listed what they thought was an issue for each topic. The group as a whole then chose the top two answers listed.

The following provides a summary of the priorities identified for each topic based on the questions presented. In some cases, time did not permit prioritization of the issues. A full list of the issues raised and other details of the workshop are found in Appendix C.

Economic Development and Tourism: Existing commercial areas meet the economic development needs of the Town and should not be expanded. Most supported business that focused on healthcare services, and there was a strong voice for a local grocery store in the Pier. The group also suggested the development of a marketing package to attract new businesses and support existing establishments. It could include tax breaks, low interest loans and/or streamlining permitting. Ideas to expand the tourist season included coordination with the South County Tourism Council, local Chamber of Commerce and the Narragansett Historical Society.

Getting Around Town: Driving, Walking and Biking: The group talked about seasonal traffic, areas in need of crosswalks and sidewalks, and ways to improving biking. Some suggested more crosswalks on Ocean Road and sidewalks near Edgewater. More ways to improve bike safety were discussed, including “Bike Route” sides and bike lanes on roads with enough width. The group also talked about the challenges of parking in the Pier and if there were opportunities to have evening parking in the beach parking lot.
Energy: The group was in favor of the Town looking into ways town operations and facilities could be more energy efficient, starting with the energy audit done in 2012. Looking for funding from state and federal sources would be required for any implementation of actions.

Public Services and Facilities: The group focused on creating a town center with public open space. A multi-generational center with programming was also suggested. They also discussed ways to improve town services, such as expanding the library, increasing community and residential support to address student renter issues, and expanding (reinstating) shuttle service. It was suggested that improvements were needed to the condition of some town buildings, parks, roadways, and sidewalks.

Housing and Neighborhoods: The group saw the need to promote more owner-occupied units and increase year-round rentals.

Natural and Cultural Resources: The group identified other areas in town that had historical significance, including the Native American settlement north of Salt Pond Plaza. They felt that the Port of Galilee and the library were important cultural resources that needed support. In general, the group discussed the need to increase maintenance and protection of natural resources, including protection from pollutants, litter and trash, and dealing with erosion.

3. Project Website

The Comprehensive Plan Update project website (www.horsleywitten.com/narragansett) was a tool used to help explain the update process and get information out to the public. The website contained resources such as the 2008 Comprehensive Plan, the 2005 Affordable Housing Plan and the 2011 Economic Development Plan. Contact phone numbers and emails were provided if someone was interested in receiving emails about the project or had specific questions. Meeting announcements were posted as well as meeting summaries, presentations and handout materials. Draft documents of the comprehensive plan were also posted for public viewing and comment. A Call for Photos encouraged residents to submit pictures of what they loved most about Narragansett. These photos were posted on the website and used in materials that came out of the project (full credit was given to the photographer).

4. E-Blasts

A list of contact emails was used to send messages (e-blasts) about upcoming project events and updates on project progress. At each public event, names and emails were collected to build this contact list. People could also submit their email addresses via the project website.

5. Planning Board Working Sessions

A series of working sessions were held with the Narragansett Planning Board. These sessions reviewed overall goals and policies for each topic area of the comprehensive plan as well as draft sections of the plan itself. They were open to the public and the Planning Board took public comments and feedback on each discussion.

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
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<tbody>
<tr>
<td>February 27, 2013</td>
<td>Goals and Policies: Housing and Economic Development</td>
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</table>
March 26, 2013  Goals and Policies: Natural Resources, Recreation and Open Space, and Historic, Cultural and Scenic Resources
April 30, 2013  Goals and Policies: Community Services and Facilities, Natural Hazards and Energy
May 28, 2013  Goals and Policies: Transportation and Circulation
June 25, 2013  Goals and Policies: Land Use
November 13, 2013  Draft Chapters: Housing and Economic Development
February 26, 2014  Draft Chapters: Transportation and Natural Resources
March 26, 2016  Draft Chapters: Community Services and Facilities and Recreation and Open Space
April 23, 2014  Draft Chapters: Land Use and Natural Hazards
May 27, 2014  Draft Future Land Use Plan
June 25, 2014  Draft Future Land Use Plan (continued)
July 23, 2014  Review of Complete Draft of The Roadmap

6. Interviews and Meetings

Interviews and meetings allowed individuals to focus on their areas of expertise. Town staff was interviewed to understand department operations and functions and how the comprehensive plan could help make their work more efficient and move important initiatives forward. Local boards and commissions were also involved in the update process, and similar discussions provided a wealth of information. Staff, boards, and commissions also provided feedback on draft materials.

Municipal Departments:
- Town Manager
- Department of Community Development
- Public Works Department and Highway Division
- Town Engineer
- Library Director and Board of Trustees Chair
- School Superintendent
- Fire Department
- Police Department
- Parks and Recreation Department

Boards and Commissions:
- Zoning Board of Review
- Affordable Housing Board
- Conservation/Tree Commission
- Harbor Management Commission
- Historic District Commission
- Land Conservancy Trust

The Narragansett Chamber of Commerce was also interviewed.

7. Town Council

The Town Council was kept informed of the update process. On May 20, 2013, a presentation was made before the Council as an update. Comments were received from the public at this time as well. The
Town Council also provided input on draft materials through joint workshops with the Planning Board. Joint workshops were held:

- August 25, 2014
- September 22, 2014
- March 23, 2015
- April 7, 2015
- May 11, 2015
- June 8, 2015

Based on comments received during the August and September 2014 workshops, the Roadmap document was updated. The subsequent meetings reviewed the revised document and additional input was provided.

Public comments on draft materials were also collected during these workshops.

8. Public Hearings

As part of the approval and adoption process, at least one public hearing is required with the Planning Board and one with the Town Council.

The Narragansett Planning Board held two public hearings: September 10, 2015 and October 15, 2015. After deliberations over public comments received in early 2016, further revisions were made to the draft Comprehensive Plan. On February 25, 2016, the Planning Board recommended to the Town Council that it be adopted.

The Narragansett Town Council held two public hearing(s): May 9, 2016 and August 9, 2016. Final revisions were made to the plan based on written and oral public comments. The Town Council adopted the draft Comprehensive Plan as an ordinance on October 24, 2016.

9. Public Comments

The Town accepted public comments throughout the update process. Most were received during public events, like workshops and Planning Board meetings as they review draft materials. Residents also sent emails and wrote letters expressing their concerns and offered ideas and examples of other communities with similar issues.

During the public hearing process, the Comprehensive Plan was posted for 30 days prior to the hearings for additional comments.

All comments and material received were reviewed and considered in drafting the Comprehensive Plan.
II. LAND USE

Where development happens, how it happens, and what it looks like are critical questions that are addressed in the Land Use Element of the Comprehensive Plan. The Town of Narragansett is nearly built out and most new development activities that take place in Narragansett will likely be in the form of infill or property renovations, both of which occur on a property-by-property basis. This condition poses a challenge, because Town officials will need to be mindful of how individual projects affect the broader context of neighborhoods and the community as a whole. Understanding how future development and redevelopment meet overarching town-wide goals, particularly when it comes to business growth and expansion, and meeting the housing needs of a population that is growing more diverse in the region and the state will be critical to managing the cumulative impacts of incremental change.

A. Formative Issues

- **Town Center**: The Town doesn’t have a traditional “town center” like many New England seaside communities. The Pier as a “town center” is not meeting the needs of residents or the expectations of many visitors.
- **Sustainable Planning**: Land use intensities must reflect the natural capacity of the land as well as municipal infrastructure capacity.
- **Special Area Districts**: Specific areas in Narragansett require special attention to unique situations that impact how people access these areas, which ultimately determines a business’s success.
- **Future Land Uses**: The Future Land Use Map illustrates how the Town sees land development patterns and conservation for the next 20 years.
- **Local Regulation Consistency**: Local land use regulations must be consistent with findings and action items in the Comprehensive Plan, including the Future Land Use Map.

B. Town Center

Traditional town centers are typically a community’s center of government, commerce, and culture with a mix of retail and services to meet the needs of residents. They are surrounded by neighborhoods with both multi-family and single-family homes, rented and owned, affordable to a variety of households with different incomes, and appealing to everyone from young professionals to retirees. Because they are the epicenter of daily life, communities will invest in a town center’s infrastructure and services to meet demands. Developed with more compact neighborhoods and buildings that are closer together, walking is encouraged and parking is concentrated in a parking garage or public lot, or available on-street. Examples of successful local town centers that operate at different scales are downtown Westerly, Wakefield, Jamestown, Bristol, Wickford, Pascoag and downtown East Greenwich. Communities like Exeter, Richmond and Foster are planning for the creation of new town centers to help shape the future of these more rural communities.

Narragansett does not have a traditional town center that provides the sense of place many people associate with seaside New England communities. The Pier Area was at one point its town center, but over the past four decades, the vision for this area was influenced by private investment and moved away from its original purpose. The commercial development at Caswell Corner and the Salt Pond Plaza has significantly affected the Pier Area, drawing customers from smaller businesses to the larger “big-box” retailers in the shopping center.
At present, the area is not meeting the needs or expectations of residents, business owners, and visitors, but there are opportunities to build upon the inherent strengths of this area. Here you will find the Maury Loontjens Memorial Library and the Public Safety Complex where both the fire and police departments are headquartered. A few blocks to the west is Town Hall and the Pier Marketplace has commercial and office space available, as well as residences. The majority of the Pier Area has retained the traditional, walkable grid street pattern and has homes at a higher density than much of the Town, predominately single and two-family structures.

The Town Beach, The Towers, Casino Park, Veterans Park, and seawall give the Pier Area amazing potential to attract residents and businesses, but the connection between these amenities and the businesses in and surrounding the Pier Marketplace is stymied by design. The height and lack of view corridors to the ocean through the Pier Marketplace create a barrier. There is a lack of clear signage to direct people to businesses and people at local businesses to the beach and water views. Pedestrian ways are not obvious into and around the Pier Area. The inward facing businesses in the Pier Marketplace are not getting exposure to people walking along the shore or in the adjacent public spaces. The Town sponsors many events at The Towers (which is also rented by private parties), Casino Park, and Veterans Park. Residents and visitors come to the area for many reasons but the lack of visibility, and knowledge, of nearby service businesses limits their success and longevity.

Local residents are taking a grassroots effort to transform the Pier Area into a town center. This requires collaboration with private property owners and more effort to reach a shared vision for the Pier Area. Events are sponsored in the Pier Marketplace to promote the Pier Area as Narragansett’s town center and show its potential. The Town has participated in these events and will use this momentum to develop a master plan for the Pier Area that will move policies forward that create a town center. More discussion is provided below, under Special Planning Districts.

C. Sustainable Planning

When we make land use decisions, we must consider the environmental, economic and social equity consequences of these actions, also referred to as the “three Es.” A sustainable approach to planning balances impacts so not one natural resource, or one neighborhood or one group of people, bears the burden of a decision. Sustainable planning supports development as long as it does not compromise the natural environment and is within its natural capacity to support the land use. This concept permeates the goals in Natural Resources and Recreation and Open Space, the business growth in Economic Development, the increase in biking and walking connections in Transportation and Circulation, and neighborhood support in Housing. The full body of policies in this Comprehensive Plan comes together as a cohesive, sustainable approach to growth in Narragansett that will maintain its unique character, protect its natural environment, allow its businesses to prosper, and open opportunities for anyone to live here.

1. Community Character

Narragansett has a distinct character as a unique seaside community and it is the Town’s goal to protect and build on this character. Through its five historic districts, the Town ensures that renovation and construction within these designated areas are performed in a way that preserves the historic architecture consistent with that particular district (See Historic, Cultural and Scenic Resources).
Outside of designated districts, these protective tools are not used by the town; however, there can be opportunities to evaluate major development projects through a design review process, targeting highly visible and heavily traveled areas that could benefit from aesthetic improvements. The feasibility and content of design guidelines will be evaluated through implementation and can be done by incorporating guidelines and incentives in the Subdivision and Land Development and Zoning Regulations.

2. **Neighborhoods**

Narragansett’s neighborhoods represent the social aspect of sustainable planning. They have distinct features and qualities that are important to protect. Each is unique and requires different approaches to maintain and enhance their character. One way to preserve neighborhood character is to develop guidelines and policies that encourage alternatives for new development or redevelopment that strengthen its character and support its residences. Guidelines and policies can address:

- Architectural style and building height: is it consistent with neighboring homes and the historic context?
- Density: is it consistent with the neighborhood?
- Access to services: is there a need for better access to services like health care, groceries, or other everyday needs? What is the primary way to reach these services? Is there a need for better connections to public transportation?
- Amenities: do residents have access to parks or other passive and active recreational areas? Are there walking and biking paths or the need for sidewalks?

An essential component of developing guidance and policies is the involvement of residents. Residents speak clearly to the issues and the needs of a neighborhood and impart an “everyday” perspective that is critical to understanding challenges and opportunities. They hold a sense of responsibility to ensure they and their neighbors have a high quality of life, and will support the Town’s efforts that promote their vision and ideas.

3. **Natural Environment**

Sustainable planning also considers environmental impacts and works to reduce or eliminate adverse changes to natural systems. The Town currently implements several environmental zoning overlays to ensure that impacts are minimized or avoided and address wetlands, high water tables, coastal features, and floodplains. Projects of considerable size may also need more detailed evaluation than the Town’s current regulations require. For example, the Town will want to consider the value of requiring environmental impact statements.

Over the years, the Town has worked to develop a town-wide Greenbelt system. The Greenbelt system is a network of undeveloped land that maintains its natural features and functions. It can include protected open space (public and private), conservation easements, recreation areas, and established buffers. The system is used by the Town for a variety of reasons, such as to:

- Separate residential and commercial clusters,
- Maintain water quality, wildlife habitat, and biological diversity,
- Preserve community identity and the sense of place,
- Protect scenic views and other sources of interest for local tourism, and
• Provide opportunities for trails or other passive recreation that links existing recreation and open space lands.

Map 1 shows the current progress of the Greenbelt system made through existing conservation strategies (see Recreation and Open Space). The Town will evaluate additional tools to protect natural areas within the designated Greenbelt. One possibility will be the feasibility of a transfer of development rights (TDR) program, which allows a property owner to sell the development potential of their property, thereby foregoing any future development, to another property owner, who would be able to increase the amount of development on their property. The former would be considered a sending area and the latter would be a receiving area, the foundation of every TDR Program. Over 200 TDR Programs have been established across the country to protect sensitive resources like farmland, wildlife habitats, historic resources, and scenic views. They have also been used to encourage development and reinvestment in particular areas of a community. A TDR Program in Narragansett would offer different opportunities and it will be necessary to analyze how it can be used to implement goals like enhancing its Greenbelt system. Further benefits can be protecting areas vulnerable to natural hazards, creating a town center, or increasing LMI housing units (see Natural Hazards and Housing and Neighborhoods).

The natural environment also has a limited capacity for new development or redevelopment and infrastructure investment may help the Town mitigate impacts from past development. For example, as discussed in Community Services and Facilities, providing centralized wastewater disposal to residential areas can address and prevent environmental health issues. The Town will continue to evaluate the need for sewer expansion and associated costs to the Town and homeowners.

Managing pollutants in stormwater is also essential to protecting and improving the health of natural environments. The Town already implements stormwater management initiatives through its EPA National Pollutant Discharge Elimination System (NPDES) Permit. At the state level, in 2010, RIDEM published the Rhode Island Stormwater Design and Installation Standards Manual. This document promotes the use of low impact design (LID) techniques rather than hard infrastructure like pipes and outfalls. Where appropriate, the Town will look to update its current regulations and requirements for new development to reference the State Manual and promote LID for both private development and municipal projects.

Finally, the Town can promote more efficient energy design in private development and redevelopment projects. It is currently taking strides to make public buildings and operations more energy efficient (see Community Services and Facilities). Using guidance from the US Green Building Council for the Leadership in Energy and Environmental Design (LEED),1 the Town will consider incentives that encourage private property owners to use “green” building design elements, increase walking opportunities in their development, or incorporate renewable energy sources.

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1 [http://www.usgbc.org/leed](http://www.usgbc.org/leed)
Map 1. Narragansett’s Greenbelt
4. **Business Development**

Economic development is the third prong of sustainable community planning. Most commercial and industrial areas in Narragansett are located along major roadway corridors with easy access to US Route 1. These areas have high visibility but should also be designed to maintain community character and avoid “strip” development. New commercial development that abuts residential neighborhoods should be evaluated based on its impact to residents, and design measures that protect those neighborhoods should be integrated into redevelopment proposals. Transitional commercial uses, those that are less intense, should be favored in these transitional areas. These might include businesses that generate light traffic, do not have evening business hours, or produce noise levels that are at or below regulated standards.

Areas for business expansion or new development will take place in existing areas zoned for commercial and industrial uses. As discussed in **Economic Development**, the Town will implement policies that promote and support business growth. The Town will also evaluate the fiscal impacts on the community from this new growth and determine which tools can help balance the costs of doing business, both for the private developer and the Town. Examples would include impact fees and growth rate permitting.

**D. Special Planning Districts**

Special Planning Districts are places in Town that require special attention to create a cohesive vision that will improve the quality of life for that neighborhood and capture unique opportunities. Many districts were identified during the update process by the public, elected officials, and town staff. Others have been carried forward from prior comprehensive planning efforts in Narragansett. By highlighting these areas, the Town anticipates that future work will take place with involvement from residents and businesses to develop a shared vision and/or specific strategies to address the unique circumstances that impact these areas. Special Planning Districts identified as part of the Comprehensive Plan update include:

- Galilee
- Boston Neck Road/South Ferry Road
- Boston Neck Road/Bonnet Shores
- Boon Street
- Pier Area
- Dillon Rotary/Caswell Corner

The following provides an overview of preliminary issues for each area identified during the planning process. Special Planning District boundaries are shown for illustration and it is anticipated that further refinement will take place as a part of implementing strategies to address challenges.

1. **Galilee**

Galilee is a unique and diverse place. At its center is an important commercial port that is home to the state’s largest commercial fishing fleet and the Block Island Ferry terminal, which transports passengers and freight to and from the island. Galilee is an important economic center for the town, the state, and the New England region. In 2010, Galilee ranked as the 4th largest fishing port in New England in dollar value of landings. The port contains 40 piers for commercial berthing that are managed by the State.
The commercial piers are immediately surrounded by businesses and services that support the commercial fishing industry.

Galilee is also a tourist destination. There are recreation and tourism uses that rely on access to the water, including private recreational fishing and boating excursions, a public boat ramp, Salty Brine State Beach, and Galilee Wildlife Management Area. Galilee also has a small retail area with souvenir shops and restaurants. Private parking lots primarily serving ferry passengers to Block Island, and to a smaller degree, the restaurants and beach also surround the area. There are also residences, both year-round and seasonal, within walking distance to the port.

The Galilee Special District plan was developed and adopted by the Town to support the commercial fishing port. It is based on the Galilee Master Development Plan developed by the State in 1996. The Special District Plan includes the Galilee zoning districts, which are intended to allow uses and development that support primarily commercial fishing and related activities, water-dependent uses, and ferry service in areas with direct access to the commercial piers. In the surrounding areas, zoning permits recreation, residences, retail, services, parking, and mixed uses. This diversity of uses is encouraged, but it is the goal of the Town that they do not compromise commercial fishing and related activities.

2. Boston Neck Road/South Ferry Road

The Boston Neck Road/South Ferry Road Special Planning District (Map 2) is focused around the commercial and industrial uses in the vicinity of where these two roadways intersect, which are concentrated on the eastern side of Boston Neck Road. Boston Neck Road is a state-maintained arterial highway and coordination with the Rhode Island Department of Transportation (RIDOT) will be essential for any roadway infrastructure improvements.

Preliminary issues identified in this area are:

- There is traffic congestion from commercial uses.
- There is traffic congestion from seasonal tourist traffic (via Bridgetown Road/Route 1).
- The area lacks continuous sidewalks and walking paths throughout.
- Biking along Boston Neck Road is not safe at times.
- Commercial development is too spread out.
- There are many driveways for commercial uses on Boston Neck Road.

Possible opportunities that should be explored:

- Traffic congestion can be minimized with access management strategies, including but not limited to, shared driveways for businesses fronting on Boston Neck Road and auto and pedestrian connections between properties.
- Walking can be accommodated with safer pedestrian connections between the commercial uses and adjacent neighborhoods and park. This might include expanding sidewalks on both sides of Boston Neck Road and at the lighted intersection with Bridgetown Road. Add crosswalks and supporting indicators at strategic locations along Boston Neck Road.
- Sidewalks can be on both sides of Boston Neck Road.
- Commercial uses should be limited almost entirely to the eastern side of Boston Neck Road.
Map 2. Boston Neck Road/South Ferry Road Special Planning District
3. **Boston Neck Road/Bonnet Shores**

The Boston Neck Road/Bonnet Shores Special Planning District (Map 3) is another commercial area along Boston Neck Road extending from the Bonnet Shores Road intersection to Marian Avenue. In general, the area lacks a cohesive vision and development happens sporadically. Boston Neck Road is a state-maintained arterial highway and coordination with the RIDOT will be essential for any roadway infrastructure improvements.

Preliminary issues identified in this area are:

- Biking along Boston Neck Road is not safe in certain areas.
- Commercial development is too spread out in this area.
- There are many driveways for commercial uses along Boston Neck Road.

Possible opportunities that should be explored:

- Traffic congestion can be mitigated with access management strategies, including but not limited to, shared driveways off of Boston Neck Road and auto and pedestrian connections between properties.
- Walking can be accommodated with safer pedestrian connections between the commercial uses and adjacent neighborhoods and park as well as crosswalks and supporting indicators at strategic locations along Boston Neck Road.
- The Town can identify uses it would like to attract to this area and develop regulations to incentivize these types of businesses.
Map 3. Boston Neck Road/Bonnet Shores Special Planning District
4. Boon Street

The Boon Street Special Planning District (Map 4) is in the vicinity of Rodman, Continental and Congdon Streets. It is a small area with a high concentration of different uses including restaurants, art galleries, shops, and residences that create a unique sense of place. Walking in the neighborhood provides visitors the opportunity to visit several shops in an environment that feels safe for pedestrians. At the intersection of Boon Street with Congdon Street, the Boon Street Park and Leroy Thompson Memorial Playground provide a diverse set of opportunities for neighborhood recreation.

Preliminary issues identified in this area are:

- Many of the existing buildings along Boon Street do not conform to the dimensional requirements of the General Business zoning district.
- Residential uses are not allowed in the General Business zoning district.
- Required setbacks and lot coverage requirements in the current zoning would greatly impact the aesthetics of the street by pushing buildings back from the sidewalk.
- There is limited parking for businesses.

Possible opportunities that should be explored:

- Study zoning options that enhance the character of the street. The intent is to maintain the feel of the current neighborhood and protect it from inappropriate development proposals.
- Providing public parking or promoting shared parking among private entities, among other strategies, can enhance parking opportunities for businesses as well as the park.
- Reestablishing the Pier Trolley to serve this area as well as the Pier and other destinations should be evaluated, focusing on alternative financial support mechanisms.
- Burying utilities can enhance the aesthetics of the neighborhood.
- There may be ways to strengthen linkages between the Boon Street commercial area and the Central Street Historic District.
Map 4. Boon Street Special Planning District
5. The Pier Area

The Pier Area Special Planning District (Map 5) focuses on recreating a town center that enhances Narragansett’s seaside character. The focal point of the planning district encompasses Narragansett Avenue from Kingstown Road to Beach Street, Casino Park, Veterans Park, The Towers, and the Pier Marketplace. There are also important broader connections to the Sprague Park, the Town Beach, Canonchet Farm and nearby historic districts. The concentration of civic, residential, commercial, and recreational uses in the area give the Pier Area a great foundation for what could become a vibrant town center. Residents and businesses rally around this idea and the “Where’s the Town” grassroots movement has invigorated community. The Town should build on this momentum.

Preliminary issues identified in this area are:

- There is a visual and physical “disconnect” between the Pier Marketplace and the Town Beach and pedestrians walking along the seawall.
- Parking is limited.
- The area lacks a range of retail needed to serve the adjacent residential areas.
- During the summer, auto traffic congests the area.

Possible opportunities that should be explored:

- A common vision developed with larger property owners can improve the vitality of the area for local businesses year-round.
- Wayfinding signs can guide visitors to area attractions and businesses.
- Trolley or shuttle service can alleviate traffic congestion.
- On-street parking can be managed with seasonal timed regulations and/or property owner permits.
- Design guidelines can enhance the aesthetics of new development and redevelopment projects.
- The bike path and linear park that connects to Canonchet Farm establishes a link to nearby open space and recreational opportunities.
- There are opportunities to connect to the Central Street Historic District and other historic features in the area, such as the Historic Towers and Seawall on Ocean Road.
- The current civic uses in the area can be keystones to town-sponsored events, including Town Hall, the library, Sprague Park, and public safety complex.
Map 5. Pier Area Special Planning District
6. Ted Wright Rotary/Caswell’s Corner

The Ted Wright Rotary/Caswell’s Corner Special Planning District (Map 6) encompasses a variety of competing uses and creates a confluence of traffic trying to reach different destinations. At the intersection of Woodruff Avenue and Point Judith Road is Salt Pond Plaza, one of the Town’s largest retail and commercial areas. Currently the Town’s only supermarket, is here with office, retail and restaurants extending south along Point Judith Road. Nearby is also mini golf, a roller-skating rink and driving range, among other recreational activities. This intersection also captures cars and transport trucks heading to and from the Port of Galilee via US Route 1. Point Judith Road is the primary route to the Port as well as the state beaches and parks. Walt’s Way abuts this area, and is an industrial and commercial area. All of this activity generates the heaviest traffic in town, the most accidents and, is not pedestrian-friendly. There is very limited pedestrian activity.

Preliminary issues identified in this area are:

- Traffic congestion is from local traffic to commercial areas and the large numbers of visitors heading to Galilee and Block Island, state beaches and parks. It is the nearest intersection to state highway exit and entrance ramps providing vehicular direction east, south, north and west. It is the nearest intersection to travel to our adjoining neighbor South Kingston’s business district.
- There are multiple driveways to commercial buildings that are in close proximity to each other.
- Traffic signal timing does not adequately address traffic backups during peak hours.
- Rhode Island Department of Transportation’s storage facility increases truck traffic and could benefit from best management practices for stormwater.

Possible opportunities that should be explored:

- A RIPTA hub in Salt Pond Plaza could serve seasonal visitors heading south on Route 108 to destinations such as Galilee/Block Island Ferry or state parks and beaches, and reduce traffic. This requires cooperation with State and private property ownership.
- The area could benefit from access management strategies, including but not limited to shared driveways and service roads.
- Design guidelines could be used to provide improvements to parking areas and landscaping.
- A study of land use and circulation patterns would help in making land use decisions in the area to improve safety and traffic flow.
- The Walt’s Way Industrial Area could be upgraded for better site utility, roadway integration and aesthetics.
Map 6. Ted Wright Rotary/Caswell’s Corner Special Planning District
E. Future Land Uses

All land use decisions are made in accordance with the Future Land Use Map (FLUM). The FLUM illustrates desired land use patterns over the next 20 years. It shows general land use categories, indicating the type and intensity of the use. The FLUM is accompanied by land use descriptions that provide the intent of the land use categories as they relate to the policies throughout the Comprehensive Plan. The FLUM is not to be interpreted as a zoning map; however, state law requires that a town’s zoning map must be consistent with the FLUM. In areas where it is not, a town must set a schedule to revise its zoning map for consistency between the two maps.

One of the challenges historically encountered by the Town in making land use decisions was interpreting the FLUM of the earlier Comprehensive Plan. The 2008 FLUM was similar to that of the 1994 FLUM, in that, in addition to general land uses, it also identified undeveloped areas by their land cover, such as forest, wetland or shrub land. In the 1994 plan, the accompanying land use descriptions noted that these lands “may in fact have the potential for development” and listed criteria by which they would not be developed, including marginal soils for onsite wastewater treatment systems, owner participation in the Farm, Forest and Open Space Program, and location in the Greenbelt system, where it could be acquired by the town or other non-profit entity with the intent of permanent protection. This language was missing from the 2008 plan and the connection between the 2008 FLUM and the descriptions of these areas required reference to the 1994 document.

The FLUM presented here provides a more typical and user-friendly tool. The 18 land use categories represented on previous FLUMs have been consolidated, primarily to remove the categories that describe land use cover. Some of these areas have been acquired and are now under permanent protection.

1. Future Land Use Map

The FLUM (Map 7) illustrates Narragansett’s land use strategies and policies. The Town has determined the best locations for general land uses based on existing built and natural environments, residential and business needs, and public input through the planning process. The Special Planning Districts are also noted on the FLUM. More guidance regarding the intent of these districts is provided in the prior discussion.
Map 7. Narragansett Future Land Use Map
a) **Residential – High to Moderate Density**

Residential areas identified as high to moderate density are primarily the older neighborhoods in Narragansett and contain both single family and multi-family developments. The minimum required lot sizes in the associated zoning districts are 10,000 to 20,000 square feet; however, many neighborhoods contain legal non-conforming lots of less than 10,000 square feet.

Not all areas are serviced with sewers. Because these neighborhoods are mostly built-out, it is expected that land use activities will focus on redevelopment of existing properties and infill. The Town will look to maintain the existing character of these neighborhoods. Because of their existing higher density and proximity to natural features like Narrow River, Point Judith Pond, and Rhode Island Sound, polluted runoff is a serious issue and it is important to reduce impervious surfaces and increase natural areas and other green infrastructure applications to filter runoff before reaching water bodies.

For areas that do not have sewer service, the Town must be cautious in expanding uses and projects should be reviewed in the context of the entire area to consider the cumulative impacts of all uses on natural resources.

These residential designations are also more traditionally designed in that they are within walking distance to public transportation, municipal services, parks and recreation opportunities, and commercial areas. They pose opportunities to incorporate units that are more affordable, including deed restricted homes to help meet the Town’s 10% low and moderate income (LMI) housing goal (see Housing and Neighborhoods). There may be opportunities to subdivide lots that are oversized for the area or add an accessory apartment to create a LMI unit. Several conditions must be met to make this work, including access to water service and sewer service and lot size, as well as meeting environmental thresholds. The Town has the discretion to review proposals on a case-by-case basis.

b) **Residential – Moderate-Low to Low Density**

Moderate-low to low density residential areas are typically single-family homes. The minimum required lot sizes in the associated zoning districts are 40,000 to 80,000 square feet; however, some neighborhoods contain legal non-conforming lots that are considerably smaller. Not all areas have sewer service. Cluster or conservation design development is strongly encouraged in these areas to protect natural systems.

c) **Commercial**

Areas designated as Commercial are areas that will meet the needs of businesses and provide services to residents and visitors. Examples might be retail, restaurants, or services such as a laundromat or copy center. These uses typically generate high volumes of traffic. Commercial areas also include water-related or water-dependent businesses. Residential uses are not permitted in these areas.

d) **Transitional Commercial**

Transitional commercial areas are provided for commercial uses that will have minimal impacts on neighboring residents. They provide a transition between typical single family residential neighborhoods and commercial or industrial establishments. They may have lower traffic volumes, generate less noise, and have limited business hours. Examples might include child care facilities, community centers, banks, or small-scale medical or professional offices.
e) **Industrial**

Industrial areas are designated to meet the needs of manufacturers, research facilities, and more intense commercial businesses that support the Town’s local economy. These uses are typically generators of noise and other impacts. Residential use is not permitted in these areas.

f) **Institutional**

An institutional use is a nonprofit or quasi-public use, such as a religious institution, library, public or private school, hospital or government-owned or government-operated structure or land used for public purpose. These areas in Narragansett typically include recreational areas managed by the Town or the State, the URI Bay Campus, and town facilities. Some institutional uses such as boarding schools may be permitted to have a residential component.

g) **Protected Open Space**

Protected recreation and open spaces are important resources that will be protected from development in perpetuity. Ownership of these lands includes federal, state or local government agencies, private individuals or estates, and non-profit organizations such as The Nature Conservancy or the Audubon Society of Rhode Island.

h) **Galilee**

Galilee on the FLUM represents the Port of Galilee Special District. Galilee is the state’s primary fishing port and includes tourist destinations such as the Block Island Ferry, restaurants, beach, and recreational boating opportunities. The district is to ensure that the commercial fishing industry is sustained and can grow while still supporting these other activities.

2. **Local Regulation Consistency**

The Rhode Island Comprehensive Planning and Land Use Regulation Act, RIGL section 45-22.2-9(d), requires that the local zoning ordinance and map must be consistent with the Comprehensive Plan and FLUM. In the development of the FLUM, the Town conducted an analysis of inconsistencies that existing between it and the current zoning map. They are shown in Map 8 and detailed in Table 1.
Map 8. Consistency Review between Future Land Use Map and Zoning Map

Legend

- Roads
- Surface Water
- Town of Narragansett
- Zoning inconsistent with FLUM

Narragansett Comprehensive Plan Roadmap
ADOPTED
October 24, 2016
### Table 1. Parcels requiring zone changes to be consistent with Future Land Use Map

<table>
<thead>
<tr>
<th>Special Planning District</th>
<th>Plat-Lot</th>
<th>Street Address</th>
<th>Existing Zoning</th>
<th>Proposed Future Land Use</th>
<th>Reason for inconsistency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boston Neck Road/Bonnet Shores</td>
<td>N-R 146-G</td>
<td>Boston Neck Road</td>
<td>R-10</td>
<td>Commercial</td>
<td>To be consistent with existing land use and area uses</td>
</tr>
<tr>
<td>Boston Neck Road/Bonnet Shores</td>
<td>N-H 300-A</td>
<td>961 Boston Neck Road</td>
<td>R-40</td>
<td>Commercial</td>
<td>To be consistent with existing land use and area uses</td>
</tr>
<tr>
<td>Boston Neck Road/Bonnet Shores</td>
<td>N-R 1124</td>
<td>965 Boston Neck Road</td>
<td>R-10</td>
<td>Commercial</td>
<td>To be consistent with existing land use and area uses</td>
</tr>
<tr>
<td>Ted Wright Rotary/Caswell’s Corner</td>
<td>O 107</td>
<td>350 Kingstown Road</td>
<td>R-10</td>
<td>Commercial</td>
<td>To be consistent with existing land use and area uses</td>
</tr>
<tr>
<td>Ted Wright Rotary/Caswell’s Corner</td>
<td>O 108</td>
<td>NA (parking lot)</td>
<td>R-10</td>
<td>Commercial</td>
<td>To be consistent with existing land use and area uses</td>
</tr>
<tr>
<td>NA</td>
<td>P 292</td>
<td>Westmoreland Street</td>
<td>R-40</td>
<td>Industrial</td>
<td>To be consistent with existing land use and area uses</td>
</tr>
<tr>
<td>NA</td>
<td>P 293</td>
<td>Westmoreland Street</td>
<td>R-40</td>
<td>Industrial</td>
<td>To be consistent with existing land use and area uses</td>
</tr>
<tr>
<td>NA</td>
<td>N-K 3-15</td>
<td>101 Riverdell Drive</td>
<td>R-80</td>
<td>High-Moderate Density Residential</td>
<td>To be consistent with existing land use and area uses</td>
</tr>
<tr>
<td>NA</td>
<td>H 37</td>
<td>155 Rodman Street</td>
<td>P</td>
<td>Moderate Low to Low Density Residential</td>
<td>To be consistent with existing land use and area uses</td>
</tr>
<tr>
<td>NA</td>
<td>L 282</td>
<td>1156 Point Judith Road</td>
<td>R-10</td>
<td>Commercial</td>
<td>To be consistent with existing land use and area uses</td>
</tr>
</tbody>
</table>
F. Goals, Policies and Action Items

Goal LU1: Make local land use decisions in an open and transparent environment, based on sound planning principles and with the most accurate and available data.

Policy LU1.1: Ensure that the Comprehensive Plan reflects the Town’s vision of its future and use it to guide land use decisions and the development of local regulations and policies.
   a. Make all land use decisions in accordance with the Future Land Use Map (FLUM).
   b. Amend zoning and subdivision regulations to be consistent with the FLUM and intent of the comprehensive plan.
   c. Review and update regulations in light of new legal developments.
   d. Continue to review and update the Comprehensive Plan in accordance with state planning initiatives.

Policy LU1.2: Support local boards and commissions in their ability to make sound land use decisions that are consistent with the goals and policies of the Comprehensive Plan.
   a. Continue to train boards and commissions.
   b. Improve computer access to regulations and land use data through the Internet and GIS.

Policy LU1.3: Support regional and statewide planning efforts as a way to increase local capacity to achieve the goals and policies of the Comprehensive Plan.
   a. Continue to cooperate with other towns in the South County region in protecting the positive image and amenities of the area.
   b. Work with the various state agencies in their planning efforts around the region, as well as those statewide that may have local impacts.
   c. Monitor new state rules and regulations as they related to Narragansett. Examples include CRMC Beach, Salt Ponds and Narrow River Special Area Management Plans (SAMPs).
   d. Coordinate with South Kingstown and North Kingstown on development planning and land use decisions for properties at the town borders.

Goal LU2: Promote sustainable growth that builds on Narragansett’s distinct character as a unique seaside community, is within the natural capacity of the land, and provides a healthy quality of life.

Policy LU2.1: Promote the Pier Area as the town center.
   a. Undertake a more detailed study of issues and opportunities in the Pier Area and consider implementing special district plan for the area.
   b. Work with property owners to develop a cooperative relationship and shared vision of the Pier area.
   c. Review and update zoning to promote development of the Pier Area that supports the atmosphere as an historic seaside area.

Policy LU2.2: Promote residential development that strengthens neighborhoods, preserves open space, avoids sprawl and reinforces community character. (See Goals H1 and H2 as well as Policy ROS 1.1)
   a. Where there is a desire, work with residents to establish a future vision for their neighborhood and develop regulatory standards to meet that vision.
b. Use building floor to area ratio (FAR) as a way to determine its effectiveness in maintaining the building scale in a neighborhood.

Policy LU2.3: Guide development to protect and enhance the Town’s natural resources.

a. Review and update existing Zoning Ordinances and Subdivision and Land Development Regulations to ensure adequate protection of water quality and wildlife habitats.

b. Investigate strategies to obtain or transfer development rights from pre-existing, undersized lots in order to protect natural resources in designated Greenbelt areas.

c. Consider sewer extensions to areas with a large number of pre-existing undersized lots to protect water quality.

d. Continue to restrict development in Areas of Critical Concern identified in CRMC’s Salt Pond and Narrow River SAMPs to low density residential use or acquire land as open space. Consider economic incentives for owners not to development in these areas.

e. Revisit and update the regulatory triggers for requiring environmental impact assessments on large projects.

f. Incorporate natural resource protection and enhancement in implementing the Hazard Mitigation Plan.

g. Incorporate low impact development techniques into the Subdivision and Land Development Regulations.

h. Review the Town’s Zoning Ordinance (Section 7.7) Supplemental Drainage Requirements and other ordinances that require stormwater management and, where appropriate, incorporate by reference the Rhode Island Stormwater Design and Installation Standards Manual (2010).

Policy LU2.4: Build on the Greenbelt network that protects dedicated open space and enhances local development. (See Policy ROS2.2)

a. Use the Greenbelt network plan to:
   - Buffer residential and commercial uses
   - Maintain water quality, wildlife habitat, and biological diversity
   - Preserve community identity and a sense of place
   - Protect scenic views and vistas
   - Provide opportunities for recreational opportunities
   - Protect property from natural hazards
   - Guide development in environmentally sensitive areas

b. Establish priorities for acquisition of open space that creates the Greenbelt network.

c. Develop strategies to build the Greenbelt network.
   - Greenbelt conservation cluster regulations
   - Transfer of Development Rights Program

d. Review and update open space requirements for subdivision and land developments, including the existing Planned Residential District and cluster development regulations.

Policy LU2.5: Ensure that growth can be accommodated by existing or planned infrastructure and community services. (See Goals CSF7, CSF8 and CSF 10)

a. Continue to extend sewers in accordance with the Wastewater Management Plan to developed residential neighborhoods where they are needed to address or prevent public health issues.
b. Prohibit sewer line extension into undeveloped areas that are unbuildable without sewers, or carefully weigh the impacts of sewer extensions upon the environment, growth and related items.

c. Continue to extend sewers to commercial areas where appropriate in order to facilitate the optimal development of commercially-zoned property.

d. Consider the acquisition of land near or adjacent to existing community facilities if it would facilitate future expansion of those facilities.

e. Continue to implement the Community Septic System Loan Program in areas where sewers will not be extended.

f. Revise the zoning ordinance to ensure that stormwater runoff and drainage issues are adequately addressed to implement water quality requirements of the Town’s NPDES Phase II permit and the Rhode Island Stormwater Manual, as revised.

g. Establish policies for very high-water users to ensure that usage is within the capacity of existing and future water availability.

h. Promote water conservation via land policies for all residential users.

Policy LU2.6: Promote energy efficient design and “green” practices, such as guidance from the US Green Building Council for LEED, for commercial and residential development and redevelopment projects.

a. Update Zoning Ordinances and Subdivision and Land Development Regulations to promote construction cost savings, energy conservation, reduced water consumption, and improved indoor air quality, among other driving principles of LEED.

   • Incorporate “green” building requirements and/or incentives.
   • Incorporate public transportation/carpooling (commercial).
   • Increase biking and walking links.
   • Encourage the use of renewable energy sources.
   • Require recycling programs (commercial).
   • Incorporate standards that reduce impervious surfaces.
   • Reduce parking requirements where warranted by industry standards or expert analysis.
   • Water conservation strategies.

b. Identify opportunities and ways to encourage “green” building design into new construction.

Policy LU2.7: Guide business development to ensure that it maintains community character in existing commercial and industrial areas.

a. Review zoning to clarify the function of each business zoning district. Consider adding new zoning categories to better regulate transitional areas between residential and heavy commercial or industrial areas.

b. Resist establishing new business zones in high traffic areas that will not meet local needs or will detract from community character or way of life.

c. Review commercial site plan requirements to maintain appropriate design standards that avoid “strip” development.

d. Consider and implement tools, as appropriate, to manage fiscal impacts of growth (impact fees, growth rate permitting and the promotion of economic development).
Policy LU2.8: Maintain and enhance community character by pursuing development of secondary activity areas outside of the Pier.
   a. Develop design guidelines for new development, redevelopment and infill projects.
   b. Evaluate the implementation of a design review process for development or substantial renovation of major buildings (commercial, industrial, civic and multifamily residential).
   c. Investigate zoning for successful architectural design and variety. Consider incentives that could be offered.
   d. Target highly visible and heavily traveled areas for improvements in design to improve overall appearance and traffic patterns.
   e. Evaluate challenges and opportunities in Special Planning Districts and develop strategies to enhance the quality of life and business success in these areas. They include:
      • Boston Neck Road at South Ferry Road
      • Boston Neck Road at Bonnet Shores Road
      • Boon Street
      • Dillon Rotary/Caswell’s Corner
   f. Establish requirements for different levels of review for either new development or redevelopment projects.
   g. Evaluate zoning strategies that can help maintain neighborhood character town-wide.
III. ECONOMIC DEVELOPMENT

Economic development in Narragansett is a diverse and complex issue. From a regional perspective, Narragansett is a tourist hub that revolves almost exclusively around the amenities provided in the summer season. The increase in activity and visitation that occurs over the summer months provides an enormous injection of commerce and revenue for local businesses, but it also causes significant strain on local infrastructure and services. Much of this is focused in the Pier area. There is also the Port of Galilee, which is the focus of the Town’s commercial and fishing industry. As the connecting port for the Block Island Ferry, it also serves as a major transportation hub. Narragansett is also home to the University of Rhode Island Bay Campus, where the university and its federal partners have office space and classrooms to perform international research related to marine science and technology.

A. Formative Issues

Participants at public forums and in discussions with municipal officials, numerous opportunities and challenges faced by the Town relative to economic development were raised.

- **Protecting and Expanding the Seasonal Economy** – The Town wants to expand economic opportunities for “shoulder” or “off” seasons.
- **The Narragansett Brand** – The perception of Narragansett from communities across New England and beyond is that it is a place only to visit in the summer.
- **The Local Economy and the Tax Base** – The commercial/industrial portion of the tax base is small and may be shrinking. The Town needs to retain existing businesses and promote expansion where appropriate.
- **The Local Economy and Housing** – The seasonal nature of Narragansett’s economy and the presence of a significant college population drives a high demand for seasonal housing. Local economic development is therefore inextricably linked to the impacts of seasonal housing on Narragansett’s neighborhoods.
- **The Local Economy and Climate Change** – Scenic resources and coastal recreation play a significant role in the local economy. The effects of climate change must be understood on a sophisticated level in order to anticipate impacts to the local economy.
- **Enhancing the Performance of Local Economic Centers** – Narragansett’s local economy includes many unique places and districts that have equally unique opportunities and constraints.

B. Protecting and Expanding the Seasonal Economy

Perhaps the most prominent economic issue facing Narragansett is the seasonal nature of commerce in the community. While there is certainly a core of year-round business serving the needs of residents and students, anecdotal estimates suggest that, as a rule of thumb, 80% of local commerce occurs during a five-month tourist influx. This estimate clearly demonstrates the local business community’s reliance on a seasonal economy not only for high profits during the summer months, but also for the ability to compensate for extended periods of little to no commerce during the off season. Because the local economy relies so heavily on summer season commerce, it is essential that the Town adopt policies that balance the need for revenue with the need to sustain those attractions that draw so many people to the area (see Natural Resources).
There are nearly 100 various points of access to the shoreline that contribute to Narragansett’s high popularity for visitors who seek opportunities to swim, fish, surf, sail and play. Without doubt, the major contributors to Narragansett’s summer season commerce are the Town Beach and the various State-owned and private beaches located throughout the Town. In 2011 the RIDEM reported an average of greater than 8,300 visitors to three State-owned beaches in Narragansett. Add to this figure over 5,000 daily visitors to the Narragansett Town Beach complex and the Town nets in excess of 13,000 visitors on an average summer day. Many of these visitors also stay longer and frequent our commercial shops, restaurants and other local cultural and recreational attractions such as the South County Museum.

In addition to protecting the resources that serve as the primary driver for the tourist economy, discussions with several local stakeholders including the Chamber of Commerce, municipal staff and residents articulate a need to extend this economic activity into what is commonly referred to as the “shoulder seasons”, (late spring and early fall). The idea is to draw tourists or consumers into the area before and after the peak summer months for activities that may not focus on the ocean, but on other outdoor or niche business opportunities. Making these shoulder seasons economically productive requires policies that will encourage special events, market alternative attractions within the community, and generally represent the community as more than just a one day or one week summertime destination.

Another issue directly related to the seasonal economy is the opportunity and problem related to summertime traffic. Narragansett has two primary entry and exit roads that are used by tourists, beachgoers and other visitors: Boston Neck Road (Route 1A) and Point Judith Road (Route 108). Thousands of cars travel along these roadways each day going to and from the area beaches and other destinations. Boston Neck Road has a significant amount of commercial frontage in Bonnet Shores. Point Judith Road with direct access off of Route 1 has two commercial areas with the potential for expansion. Both areas serve tourists coming to visit the town in the summer with basic needs on their way to their destination and, likewise, visitors heading home may be looking for a place to eat, shop, buy ice cream, etc. It should be noted that both roadways, Boston Neck Road and Point Judith Road, have their own distinctive character and challenges. Numerous access driveways, particularly at Caswell’s Corner on Point Judith Road, further impact the increased summertime traffic.

Similarly, once visitors reach the Town Beach or are enjoying the views from Veterans’s Park, the Casino Courtyard, the Seawall or the Historic Towers, businesses located at the Pier or on Boon Street are within walking distance for thousands of potential customers spending the day near the Town Center.

While commercial establishments today clearly benefit from foot, bicycle and automobile traffic during the summer months, discussions with local officials and stakeholders during the Comprehensive Plan development process suggest that these areas may only be capturing a fraction of their full potential. An economic policy focus of the Town will be to examine site development, signage and circulation techniques that make businesses more visible to passing traffic and different modes of travel. It is the economic and planning policy of the Town to scrutinize site development in favor of increasing business visibility, increasing commercial access to sites, while balancing safety concerns, increasing traffic circulation, making businesses more visible and accessible to passing traffic and different modes of travel consistent with then-existing ordinances regulating landscaping and signage.
C. The Narragansett Brand

To the people who live in Narragansett, the town clearly has an identity as “home” and participants in the Comprehensive Plan development process spoke passionately about their perspective on Narragansett as a place rich with natural beauty, seaside character, and high quality of life. However, when considering issues of economic development, it is also important to understand how people outside of Narragansett view the community and the opportunities individuals and families might have during a visit, when considering a new home, or perhaps when considering opening a new business. While thousands of “day-trippers” come to visit Narragansett every sunny day of the summer, most see the visit to the beach as their only focus. The idea of Narragansett as more of a complete destination with shopping, dining, entertainment and other activities is not as prevalent in the tourist mindset and represents an economic opportunity not being captured. From a residential standpoint, Narragansett is seen by out-of-towners as a great place to visit, but perhaps a place that is a little “out of reach” or “out of the way” when considering a place to live year-round or locate a business.

From an economic perspective, this “brand” of Narragansett as a “place to visit in the summer” is one that needs to be expanded in order to provide more diverse and sustainable economic opportunities. Tools that are used for branding communities range from targeted marketing campaigns to more dispersed efforts like creating an image through special events and other attractions. This serves not only to promote the community, but also creates a more complete perspective for outsiders relative to the assets and opportunities within a given community. Economic policies for Narragansett related to its image will focus on opportunities to broaden visitors’ experience well beyond the beach.

D. The Local Economy and the Tax Base

As shown in The Baseline Report, the vast majority of Narragansett’s tax base is supported by residential use. In 2010, just 8% of annual real property tax yield was derived from non-residential use. This represents a decrease in the relative contribution from 12.8% when compared with the data from ten years prior. As Narragansett is almost entirely built out with residential development use, it is safe to assume that the majority of the property tax base will be derived from residential taxes into the foreseeable future. However, this does not imply that the Town should not strive to increase the commercial/industrial property tax yield. Increases in commercial and industrial property tax yield can help to stabilize the tax base and would result from a more comprehensive focus on business development throughout the community.

One of the biggest challenges associated with increasing the commercial tax base is the dramatic drop off of commerce during the “off-season.” Year-round retail and service establishments in Narragansett face the reality of challenging “off-season” months where the flood of summer traffic diminishes to a small stream of more locally based customers. Other local businesses include the small but economically important collection of industrial uses such as those at the North Star Industrial Park, South Ferry Industrial Park, and the port of Galilee. While these industries are not affected as much by the seasonal tourist fluctuations, they do face pressures associated with “big picture” issues like fisheries management and globalization of many industrial sectors. Economic policies in Narragansett will need to encourage tools and partnerships that remove unnecessary roadblocks to the success of these year-round enterprises.
E. The Local Economy and Housing

Narragansett’s seasonal economy and the presence of a high college student population are strong influences on the local housing market (see Housing and Neighborhoods). These forces create a sustained demand across several seasons for rental housing with tourists renting in the summer months and college students renting in the off-season. Beyond these seasonal pressures, high real estate values push the year-round ownership housing stock to be more expensive when compared with comparable stock elsewhere in the state. The market demands created by these forces have significantly shaped the business landscape in Narragansett as many businesses primarily focus on serving seasonal tourist demands. Further, the commuting patterns of residents demonstrate that most seek jobs outside the town, looking for the higher paying jobs that support their lifestyle. Community residents are not constrained by the cost of commuting.

While diversity of housing stock is not the only driving factor behind local business diversity and increased commerce, it is certainly part of the equation. Higher densities of housing strategically located in and around commercial areas provide a direct increase in localized market demand for basic services and goods. These housing strategies also simultaneously help to accomplish many of the basic housing goals for the community which include providing seniors with more opportunities to age in place, and providing more affordable housing for Narragansett’s work force and first-time home buyers.

F. Enhancing the Performance of Local Economic Centers

As with many other suburban communities, Narragansett has established small pockets of commercial and industrial uses around primary traffic routes and around places that served as traditional centers. In discussions with local officials, residents and business owners, there was a shared sentiment that the expansion of economic centers should not be a primary focus for local economic development. While some limited expansion of commercial districts could be appropriate, stakeholders felt that existing commercial districts are underperforming and could be enhanced. Some of the common themes that emerged in local discussions include:

- Expansion of the Town’s commercial base, while limiting geographic growth, should focus on attracting small and mid-sized businesses that complement the Town’s natural and historical character. Growing the Town “Brand” beyond restaurant and retail can be achieved through solicitation and assistance to professional office, medical and other office uses. Growth may be obtained in town from new users from outside the Town moving into the Town. The Town should seek out, solicit and facilitate the location of service, technology and light industrial enterprises in Narragansett that offer highly paid employment opportunities.

- Existing circulation routes, parking configurations, and signage around the Pier area make it challenging for visitors to explore their options for shopping, eating and entertainment in this area.

- Boston Neck Road is one of the primary access/egress routes for residents and tourists. Site design, signage, curb cuts, and building density do not create a situation that encourages users to visit more than one store in a single stop.

- The Salt Pond Shopping Center and other businesses at this Route 108 intersection are an effective auto-oriented shopping center that serves many important retail needs. The plaza can benefit from design guidelines that create some site improvements and beautification during
future redevelopment. Linking public transportation options can also boost the usage of this site (see Transportation and Circulation).

- The port at Galilee is a regional transportation hub, economic center, and cultural resource. The Town should continue to regulate the area in a way that balances the diversity of uses and protects the local fishing industry.
- The South County Hospital, located just over the Town line in South Kingstown, has grown into an economic generator in the past two decades, as evidenced by the construction of four nearby large medical office complexes. The Town should encourage the location and growth of this site and other medical facilities.
- The University of Rhode Island has a multi-faceted presence in Narragansett which includes the world-renowned Graduate School of Oceanography campus on Narragansett Bay. This facility in addition to the main campus located in Kingston, five miles away, generate economic activity through the conduct of instruction, research and housing and services to students and faculty.

Many of these ideas are not only important to Narragansett’s economic development strategy, but also to the broader land use strategies applied to each area. The Land Use chapter of this Comprehensive Plan reinforces these ideas and, in some cases, explores them in more detail.

G. Agriculture and Resource Based Industry

In recognition of recent growth within the state’s agricultural sector and, more importantly, recognizing the importance of cultivating local food, recent state legislation requires every city and town in Rhode Island to consider the role of agriculture in their local economy. Narragansett’s geologic conditions, its proximity to the ocean, and the development trends over the past several decades collectively have removed most opportunities for conventional land-based farming.

There are active farming activities in Narragansett. Sunset Farm is Town-owned and managed by a farmer/caretaker with the Narragansett Land Conservancy Trust (NLCT). A caretaker manages the property, including livestock and produce grown onsite. NLCT also leases plots to residents with a community garden that is assisted by the resident farmer. The farm stand is open from July to November. Canonchet Farm, while no longer active farmland, incorporates a small barn and livestock for demonstrations and local, small-scale production. Other Town properties may have the potential for community gardens as well, and the Town will explore expansion of local farming activities.

However, Narragansett is still a center for extractive resource based food production such as seafood cultivation and harvesting businesses which operate on scales ranging from small individual shellfish farms to industrial scale fishing vessels. Therefore, when considering food production, policies related to shellfish cultivation and port-based fishing (out of Galilee) can significantly affect the economic viability and sustainability of these operations.

Outside of food production, Narragansett can also be mindful in its policies related to food processing, retail, and waste management. With regard to fishing, some processing takes place in Galilee and is essential to the viability of the fishermen who use the port. On the land-based side, policies should examine the potential for using public lands, parking areas, or other similar spaces as markets to increase access to local foods from the region. Finally, an often overlooked but growing piece of Rhode Island’s food economy is waste management which should include compost development. These activities occur at scales as small as individual home compost bins to large scale facilities. Narragansett
will need to consider these potential economic opportunities moving forward and consider how local policies may or may not affect the town’s ability to take advantage of new trends and industry.

H. The Local Economy and Climate Change

Narragansett, as a coastal community, has been impacted by the early stages of climate change. Historic records in Rhode Island show that average sea levels have increased nearly a foot since the early 20th century, and future predictions show this trend continuing. More dramatically, the size, frequency, and intensity of coastal storms are continuing to increase. As coastal storms continue to impact Narragansett, issues related to beach replenishment and beach migration could raise serious questions regarding the sustainability of the state and town beaches in their current form. Obviously, if there were to be significant losses or relocation of beach formations in Narragansett, this could impact the seasonal commerce that is so important to the local economy. While the “point of urgency” for these issues may be several decades away, it is important for the Town to begin considering these impacts to prepare future generations to make what may be very challenging and expensive decisions. In doing so, Narragansett has an opportunity to become a regional leader in economic policy that is explicitly geared toward climate change adaptation.

I. Goals, Policies and Action Items

Goal ED1 Support a diverse economy that meets the needs of residents and visitors

Policy ED1.1: Pursue strategies to maintain a strong tourist economy that is beneficial to the Town.
   a. Identify ways to connect visitors to local businesses.
   b. Develop ways to capture incoming and departing customers through site design.
   c. Partner with such groups as local realtors, property managers and the local chamber of commerce to develop strategies that bring awareness of local commerce and services for weekly renters.
   d. Partner with local businesses and associations to develop mechanisms that can increase overnight stays.
   e. Work with local hotels, restaurants and religious institutions to market Narragansett as a wedding destination.

Policy ED1.2: Explore opportunities to expand “shoulder season” commerce opportunities.
   a. Increase programming in open space and recreational areas around the Pier. Ensure that parking is adequately managed for events.
   b. Find ways to incorporate farmers markets and fish markets in locations where locals frequent.
   c. Work with the Historic Commission to develop and enhance historic tours in the shoulder seasons.
   d. Partner with local theater and arts organizations to schedule arts and culture events during the shoulder seasons.

Policy ED1.3: Support year-round businesses that serve our residents.
   a. Connect neighborhoods to commercial areas through improvements like walkways and signage.
   b. Explore tax and/or loan incentives including but not limited to tax increment financing or tax treaties, for year-round businesses for beautification, small business capacity building, expansion, or necessary repairs.
c. Actively solicit new or expanded professional office, medical, and other high paying businesses in Town. Actively seek out, solicit, and facilitate the location of service, technology, and light industrial enterprises in Narragansett that offer highly paid employment opportunities.

d. Integrate future library expansion with surrounding local businesses.

e. Preserve and maintain agricultural uses on the Town’s locally owned farms and encourage new agricultural uses as appropriate.

Policy ED1.4: Provide a fair, predictable, and timely local regulatory process that encourages investment in Narragansett.

a. Establish an economic development coordinator as the business community liaison and first point of contact with the town in the regulatory process.

b. Develop and package guidelines and checklists on local review process for businesses and developers.

Policy ED1.5: Maintain a housing stock suitable for all people. (See Housing and Neighborhoods)

Policy ED1.6: Pursue other business sectors that can diversify the local economy.

a. Develop an approach to reach out to and attract new types of businesses that complement and support the existing business community and changing technology.

Goal ED2: Develop and maintain infrastructure conducive to local economic development

Policy ED2.1: Maintain important databases and indicators for commerce in the community.

a. Complete an inventory of existing business and industry and develop a strategy to ensure that the inventory is maintained.

b. Assess trends of commercial and industrial tax base over time in Narragansett.

c. Track revenues seasonally to understand dynamics in the local economy.

d. Estimate the impacts of different transient populations (e.g., week-long renters, students).

Policy ED2.2: Develop circulation systems that optimize access to local commerce.

a. Evaluate existing signage and lighting around commercial areas and tourist attractions. Identify ways in which signage and lighting can improve visibility of local businesses.

b. Study the feasibility of reconfiguring Ocean Road to include bike and pedestrian access.

c. Increase bicycle signage, lanes and shared-lane markings for bikes in the Town’s commercial areas.

d. Consider access management strategies that minimize curb cuts and maximize gateways.

e. Evaluate ways to improve the pedestrian experience in the Pier Area to encourage pedestrian access to the business centers.

Policy ED2.3: Manage parking throughout the community to maximize access and aesthetic appeal.

a. Develop detailed parking lot design standards.

b. Consider maximum parking standards to complement existing parking requirements.

c. Explore the use of a parking improvement district or dedicated circulation fund.

d. Develop wayfinding signage system for parking areas.

e. Consider the use of beach parking areas after hours to support local business activity and special events.
Policy ED2.4: Maintain lines of communication and important relationships with the business community.
   a. Establish a local network with the Chamber of Commerce, local industrial complexes, significant landholders in town, fishing community, and state agencies such as Commerce RI, CRMC and DEM.

Policy ED2.5: Ensure tax policies are attractive to potential new businesses.
   a. Review the Town’s current tax policy.

Goal ED3: Capitalize on the economic opportunities specific to different areas of town.

Policy ED3.1: Develop tools that are tailored to commercial areas outside of the Pier.
   a. Develop economic and physical master plans for Boon Street, and other commercial special districts noted on the Future Land Use Plan.
   b. Examine opportunities for better internal circulation and access management for sites on Boston Neck Road.
   c. Continue to support Galilee as an important commercial fishing port for the region.

Policy ED3.2: Develop tools that are specifically tailored to the Pier area.
   a. Examine the open space restrictions for Casino Park to see if there may be opportunity to reprogram that area.
   b. Develop a physical master plan for the Pier area that explores:
      - Re-orientation or re-routing of traffic on Ocean Road.
      - Integration of different housing types.
      - Re-orientation of the Pier Village.
      - Identification of areas for mobile, temporary or interim uses.

Policy ED3.3: Explore more sophisticated “place-based” regulatory approaches for different districts.
   a. Continue to revisit zoning related to allowable uses, parking, dimensional standards and other requirements in specific districts to ensure there are no roadblocks to quality redevelopment.
   b. Explore the possibility of introducing form-based zoning elements on various streets in the Pier area.
   c. Explore the potential application of design standards to commercial areas on Boston Neck Road, Boon Street, and at Woodruff Ave/Point Judith Road.
   d. Consider allowing housing types such as top of the shop and cottage style units into areas around the Pier, Boon Street and off the edges of Boston Neck Road commercial properties.
   e. Ensure existing zoning in Galilee supports commercial fishing industry uses and infrastructure capacity is maintained.
   f. Cultivate a working relationship with URI/Graduate School of Oceanography to develop marine-related jobs in local businesses and new business enterprises in proximity to the URI Bay Campus.
IV. COMMUNITY SERVICES AND FACILITIES

Needs and demands for community services and facilities in Narragansett are driven by changes in population demographics, land development patterns (See Land Use) and natural hazards (See Natural Hazards). The Town’s ability to meet these demands relies on available resources and capacity. While it is anticipated that the Town’s residents will be growing older with a desire to “age in place,” there are focused efforts by the Town to increase its vibrancy and diversity by providing opportunities to young adults and families through its housing policies (See Housing and Neighborhoods). The Town will have to meet the spectrum of needs demanded by these different age groups, whether through library programming, emergency response services, or the capacity of the local schools.

The Town’s residential areas are close to being built out, and future housing development will likely be in the form of infill or replacement in existing neighborhoods (See Land Use). This implies that maintenance and upgrade of existing infrastructure (as opposed to expansion) will be a primary focus for the Town. New innovations and approaches to make these systems more efficient and sustainable will be in the Town’s best interest.

Evaluating the current capacity of department staffing, municipal budgets, and funding of the Town’s capital improvement program will lead to strategic decisions that support a high quality of life for all residents now and in the future.

A. Formative Issues

- **Municipal Administration**: Residents and business owners want a transparent, responsive government.
- **Schools**: After several years of decline, student population is stabilizing.
- **Public Safety**: The Town needs to optimize the Caswell Street Safety Complex to meet the needs of the Police and Fire Departments.
- **Maury Loontjens Memorial Library**: The role of the library in the community is expanding and it needs to grow to meet these demands.
- **Public Works**: Ongoing maintenance and provision of community services and facilities is a concern. The Department of Public Works, which is responsible for the maintenance and operation of the Town’s transportation, storm water, and certain major building infrastructure, is working at full capacity.
- **Drinking Water**: The Town generally receives all of its potable water from outside the municipality and from aquifers that are stressed.
- **Wastewater Management**: Improvements and expansion of the sewer system will help to improve water quality, but also increase development pressure in environmentally sensitive areas.
- **Solid Waste Management and Recycling**: The Town needs to maximize its new residential recycling program to meet state-mandated recycling and diversion rate goals.
- **Stormwater Management**: The Town implements its Phase II Stormwater Permit, and can incorporate the State’s new stormwater management manual into its local regulations to maximize the benefits of both “green” and “gray” infrastructure.
- **Municipal Energy Consumption**: The 2010 ESCO energy audit outlined energy efficient initiatives for municipal buildings and operations.
B. Municipal Administration

One of the primary goals of the Town is to provide its citizens with a high level of municipal services. Providing quality service requires the Town to invest in its technology and its workers. Technology is constantly adapting to make daily operations more efficient and user-friendly. The Town will continue to review new software and hardware that could potentially improve municipal operations, and offer employees appropriate training in delivery of these services.

Offering high level, quality service also requires monitoring of local processes and procedures to ensure that services are provided in the most efficient, timely and effective way possible. As new technology becomes available, and as workers obtain new skills, the Town should review the way it performs and look for opportunities to improve how services are delivered to the public.

Improving municipal services can also be accomplished by coordinating with neighboring communities. There may be opportunities for the Town to partner with North Kingstown or South Kingstown in delivering services. As discussed later in this chapter, the Town already has formal agreements for drinking water, solid waste management, and wastewater treatment, as well as informal arrangements for public safety support as needed. The Town has a formal agreement for police patrol with South Kingstown for the Jerusalem area of Narragansett. Narragansett will continue to explore other opportunities where sharing resources may be financially and logistically beneficial for the region.

The Town also aspires to have an open and transparent government, providing information to the public about government processes and procedures, decision making, and events and activities. The Town’s website has become a critical tool in delivering information to local residents and businesses and it is updated regularly. The Town will ensure that the following information should be readily available to the public:

- Meeting announcements for municipal boards and commissions, including agendas and meeting minutes;
- Contact information of elected and administrative officials;
- Municipal finance and budget information;
- Public notifications;
- Municipally-sponsored events; and
- Other Town activities, including department programs and activities.

C. Schools

When schools and education are discussed in the Comprehensive Plan, the focus is on its physical infrastructure alone. Programming is addressed in the School Department System Plan. The Narragansett School Department has a Strategic Plan that outlines improvements needed to meet educational needs of students, teachers and the administration. By linking the school and education facility needs with the Comprehensive Plan, the Town can assess how it could meet those needs. For example, if there were a demand to build a new school, the Comprehensive Plan can assess demographics and land availability to determine the location of new facilities.

The School Department has made investments in all three school buildings and their associated fields and playgrounds, and makes a strong commitment to the continued maintenance and upkeep of its facilities and grounds through its Asset Protection Plan. Based on current capacity and projected
student growth, the Town sees no need to close any of its existing schools or build new facilities. The Town sees future capital improvements related to updating and modernizing existing buildings. Examples include energy efficiency improvements, improving access to schools through walking and biking, and increasing access to technology that meet the advancement of educational services.

D. Public Safety

The primary goal of the Town’s Police and Fire Departments is to provide the community with the highest level of police, fire and emergency response services. Future needs of the departments are primarily focused on equipment, apparatus and training. Both departments annually review their equipment and apparatus requirements. Department expenditures are proposed to the Town Council as part of the Town’s Capital Improvement Program (CIP), where they are reviewed for funding against other municipal departments’ projects. Staff training is provided through department budgets, which are also limited. Outside funding sources may need to be identified to ensure that the departments are able to respond to community needs.

The two departments are headquartered in the Public Safety Complex on Caswell Street and the building in its current state is at capacity and in need of certain code upgrades. The Town has completed a reuse study to determine how to optimize use of the facility and will take further action on its recommendations as appropriate. There may also be opportunities to renovate and/or expand the South End Fire Station. A bond referendum went before the voters for November 2014 for $2 million for critical code compliance issues and facility upgrades. The renovations are 50% complete.

Coordinating with North Kingstown and South Kingstown fire departments will help the three communities accommodate large, local events and situations that require additional capacity. Procedures can be established through inter-municipal Memoranda of Agreement. This type of agreement can also lead to other efforts in sharing common resources. One example for consideration is a regional dispatch for the three towns.

The Police Department responds to a fair amount of residential nuisance complaints in neighborhoods where student renters dominate. To ensure that the responses and resolutions are fair and equitable for all parties, the department should regularly review the municipal policies and ordinances and propose new solutions as needed. Open communication with landlords, tenants, and the University of Rhode Island will be the key to success in addressing neighborhood issues.

The Narragansett Emergency Management Agency is responsible for the Town’s Emergency Operations plan and coordinates the volunteer Community Emergency Response Team. The Town’s ability to respond to emergency situations is outlined in its Emergency Operations Plan, which should have periodic updates as needed. The Town will continue to coordinate with the Federal Emergency Management Agency (FEMA) and the Rhode Island Emergency Management Agency (RIEMA), as well as its neighboring municipal counterparts in meeting and responding to statewide and regional emergency situations.

E. Maury Loontjens Memorial Library

The Maury Loontjens Memorial Library is a thriving community facility that has an increasingly higher usage each year, but struggles to continue to provide adequate services to its users. In its current location, the role of the library continues to evolve with the increasing demands and changing needs of the community. It has become a focal point for access to information and it provides a variety of
services for town residents as well as residents of RI through its participation with the statewide consortium (Ocean State Library). It provides meeting space for a variety of users including individuals and organizations. The library works to ensure that programming is diverse and accessible to all residents. There is an increased demand for existing programs as well as additional young adult and senior programming due to, the aging of the Baby Boomer generation. Space in the building is limited, and its staff believes it to be inadequate for the needs of the community. The library staff is developing a building program based on its March 2012 assessment, which includes strategies for expansion and for all aspects of the expansion funding sources. The library seeks to increase its reach and promote all it has to offer to the community. This goal, however, is frustrated by the shortcomings listed above. The library can also link with historic, cultural and recreational programs and special projects and events sponsored by the Town (See Historic, Cultural and Scenic Resources and Recreation and Open Space). The Library needs more parking.

F. Public Works

The Public Works Department maintains municipal roadways, bridges, sidewalks, and buildings, among other public infrastructure and facilities. In order to provide a high level of service, the capacity of the department must be adequate in its facilities, staffing, and equipment. The current facility is not meeting the storage needs of the department and the Town will investigate ways to expand the building and storage potential. The department is also experiencing staffing constraints in meeting the demands for service and performing routine maintenance. The Town will continue to evaluate staffing capacity and determine the ability to fill vacant positions. To meet staffing needs, and on some occasions the need for equipment, there may be an opportunity to enter into a mutual aid agreement with North Kingstown and/or South Kingstown to share resources.

The Department has developed long-term improvement programs and resources to ensure the longevity of the Town’s investments into its current infrastructure as well as new construction. Some examples include a Pavement Management Plan and local road construction handbook. This program is supported by the 2012 passage of a $17 million bond referendum that calls for a multi-year implementation plan for road improvement projects. The Town lacks a tree maintenance schedule and has not replaced trees in the public right-of-way that have been lost to disease or damage. This is a priority for the Town that can be addressed through a variety of tools.

G. Drinking Water

The Narragansett 2007 Water Supply System Management Plan (WSSMP) provides the framework for the Town to promote the effective and efficient conservation, development, utilization and protection of the natural water resources that are used by the Town as drinking water. The Engineering Department/Water Division owns and operates existing water infrastructure (as shown in Map 9), but the Town does not have a potable water source. It relies on the Town of North Kingstown and SUEZ Water for drinking water. Because of the dependency on outside sources, the Town must stay active in with these two entities to ensure that there is adequate supply and their groundwater resources are protected. Narragansett must continue to review the terms of its water agreements with North Kingstown and SUEZ Water.

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2 SUEZ Water also provides drinking water to the Town of South Kingstown.
Map 9. Water Distribution System and Sewer System of Narragansett
The Water Division maintains the functionality of the municipal water system. Upcoming, short term projects include painting water tanks, and the Division continues to prioritize infrastructure improvements implementation through in the CIP. The Division annually evaluates its pricing structure for service to its customers to ensure that it supports the operations and capital costs.

The Town receives drinking water via its suppliers from sources that require careful resource management. Water purchased from SUEZ Water is sourced from the Chipuxet watershed basin. According to the Rhode Island Water Resources Board (WRB), peak water demands in the watershed exceed state resource protection goals. Water purchased from the Town of North Kingstown is sourced from the Hunt/Annaquatucket/Pettaquamscutt Aquifers (HAP). The HAP provides high quality water not only to North Kingstown and Narragansett, but also parts of Warwick and East Greenwich. The USGS reports that the high volumes of groundwater withdrawals during peak water demands can reduce streamflow in the HAP watershed basin, which impacts aquatic and riparian habitats.

Because of the need for strategic resource management, the Town strongly supports conservation and wise use of drinking water supplies and through the Water Division, the Town implements water conservation techniques. It also supports the drought management activities of WRB and follows procedures as they are passed down through its suppliers: the Town of North Kingstown and SUEZ Water. The specific actions the town follows when a drought event is identified are detailed in the WSSMP. The Strategy for Reducing Risks from Natural Hazards in Narragansett, Rhode Island: A Multi-Hazard Mitigation Strategy (January 2013) outlines procedures the Town falls during extreme drought as well as ways to mitigate severe drought conditions. The Town also promotes water conservation to its customers and will continue its education program to residents and businesses about water-saving devices and proper lawn maintenance, among other techniques.

It is critical that the Town ensures that future development and redevelopment projects can be accommodated by existing and projected water supplies (See Land Use). The entire Town has access to water service, so the question will be if new projects can be supported by existing water supplies. Due to the amount of commercial and industrially zoned land, environmental constraints, and the conditions that must be met to expand sewer service (see Wastewater Management), it is reasonable to anticipate that limited industrial and commercial development will occur in the next five to ten years. According to the WSSMP, the demand by existing major water users, which include seafood processors, restaurants, laundries, car washes, and recreation, has remained consistent and it is expected to continue without great deviation. The Water Division will coordinate with North Kingstown and SUEZ Water to evaluate the potential water usage of proposed development and ensure that it meets projections.

The WRB is also conducting water availability and allocation studies within the watersheds that service the Washington County area. The Town will have an active role in this process.

H. Wastewater Management

The Engineering Department/Wastewater Division manages the wastewater/sewer infrastructure for the Town (also shown in Map 9. It implements the Town’s 2007 Facilities Plan for Wastewater Management, which evaluated the present and future wastewater conveyance and treatment needs of the Town. The 2007 Facilities Plan includes estimated flows and costs related to providing sewer

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3 http://www.wrb.state.ri.us/documents/Chipuxet_specific%20watershed.pdf
4 http://pubs.usgs.gov/fs/fs063-01/pdf/fs06301.pdf
systems for specific neighborhoods, but it does not include a proposed implementation schedule. Rather, that part of the decision-making process has historically been left to the sitting Town Council(s).

Future sewer projects will be evaluated in coordination with Rhode Island Coastal Resources Management Council (CRMC) and issues that would be examined would include density limitations and zoning revisions. Overall, the Town will be cautious in extending sewer service into sensitive environmental areas, and will rely on the existing zoning overlay districts to ensure that development meets performance standards and capacity of the land.

The 2007 Facilities Plan identifies areas where sewers are proposed to be extended. The entire North End is proposed as a future sewer service area, with the exception of Plat N-B West Passage. Similarly, the future service area encompasses the entire South End with the exception of Plat I-J Jerusalem. In addition, CRMC prohibits the installation of municipal or private sewers in areas of Critical Concern or Self-sustaining, as identified in CRMC’s Narrow River Special Area Management Plan (SAMP) and Salt Pond Region SAMP, unless specific conditions are met. In the Narrow River area, CRMC must also review and approve the extension of sewer lines and other wastewater infrastructure. These future sewer service areas are illustrated in Figure 1.

Wastewater treatment is performed at the regional Westmoreland Wastewater Treatment Facility (WWTF) and the Scarborough Wastewater Treatment Facility. The Regional WWTF is operated by the Town of South Kingstown, and owed by South Kingstown, URI, and Narragansett. Each regional partner has a purchased percentage of capacity. As Narragansett has historically been the only partner in need of additional capacity, we have been leasing excess flow capacity from URI since the 1990s. This was determined to be more cost-effective than physically constructed new flow space that only one of the regional partners needed. However, recent improvements in reducing Inflow/Infiltration (I/I) within our system have allowed us to reduce the leased flow volume from URI by 50%. Efforts along this line will continue each year. Identifying inflow (unauthorized connections) and infiltration (unwanted groundwater or surface water) can be paid for with earmarked funds from new sewer connection fees.

The Engineering Department is also interested in being more innovative in managing wastewater. As technology improves and becomes more cost effective, there may be opportunities to apply new treatment techniques to the Scarborough facility that can improve the surrounding natural environment over existing conditions. Evaluating the feasibility of reusing gray water might be one opportunity.

http://www.crmc.ri.gov/samps.html
Figure 1. CRMC Land of Critical Concern, Self Sustaining Lands & Future Sewer Service Areas (Narragansett Wastewater Management Plan, 2007)
There are many residential areas that still rely on on-site wastewater treatment systems (OWTSs). The Town adopted the Narragansett Wastewater Management District to ensure that these systems are properly maintained and regularly inspected. The ordinance mandates septic tank pumping every four years. Currently the Town does not have the staff or funding to ensure that systems are maintained or inspected. With support from the Conservation Commission, residents can be educated about OWTS maintenance. The district can also be a vehicle for the Town to continue its loan program, funded through RIDEM’s State Revolving Loan Fund (SRF), which assists residents in upgrading their OWTSs.

I. Solid Waste Management and Recycling

It is the Town’s goal to reduce solid waste and maximize recycling opportunities for residents. The Town currently does not meet the State-mandated recycling rate of 35% and total diversion rate of 50%, and it is considering several strategies to meet these goals. The Town does not have its own transfer station, but uses the Rose Hill Transfer Station in South Kingstown. It is working with the Town of South Kingstown to develop improved strategies to more accurately allocate recyclables and diverted materials between the two towns resulting in more accurate calculation of Narragansett’s mandated recycling and diversion rates.

The Public Works Department implements the Town’s new residential recycling program. More public outreach needs to be done about the program to encourage more participation. The Town continues to evaluate the effectiveness of the recycling program to identify opportunities to for improvement that will result in achievement of the mandated recycling and diversion rates.

The Town’s mandated recycling rate reflects the percentage calculated by dividing the total tons of bin recyclables plus yard debris, clothing and scrap metals divided by the total of these tons plus the tons of trash delivers to the Central Landfill. The mandated diversion rate expands to include all other materials, such as tires, mattresses, clean wood, motor oils and filters, etc., that were diverted from the landfill for reuse or recycling. There are opportunities outside of Town-sponsored venues for residents to reuse these and other items, such as charity donations and organized collection days sponsored by the Rhode Island Resource Recovery Corporation at the state landfill in Johnston. The Town can support these diversion activities and increase their mandated diversion rate by developing municipally-sponsored and managed events and activities. One opportunity can be the development of a local composting facility for yard waste. This would require investigating a location and an operations and maintenance program. The Town also sponsors annual EcoDepot event to collect household hazardous materials and e-waste, and should consider expanding the event to add the collection of additional materials, such as shredded paper or collections of clothing and shoes by a charitable organization.

J. Stormwater Management

Stormwater management in Narragansett is primarily done through a closed pipe conveyance system. In accordance with federal and state law, the Town received a permit to discharge stormwater through this system in 2003 from RIDEM. The permit directs the Town to meet the requirements of US Environmental Protection Agency’s (USEPA) implementation of Phase II of its National Pollution Discharge Elimination System (NPDES) regulations. The Town prepared a Stormwater Management Program Plan (SWMPP), as required, and will implement six water quality control measures discussed in the SWMPP:

- Public Education and Outreach;
- Public Participation and Involvement;
• Illicit Discharge Detection and Elimination;
• Construction Site Runoff Control;
• Post-Construction Runoff Control; and
• Good Housekeeping and pollution prevention.

Implementing the SWMPP will reduce pollutants in stormwater runoff and improve the water quality of surface and groundwater. Because many of the roads in Narragansett are maintained by the State, the Rhode Island Department of Transportation will be an important partner in meeting water quality goals.

The Town can also address pollutants in stormwater through the use of low impact design (LID) techniques, or more “green” infrastructure, that support its existing pipe conveyance system, considered “gray” infrastructure. LID techniques focus more on using natural systems, such as rain gardens and bioswales, to filter pollutants out of stormwater before reaching a waterbody. It is important to recognize the diverse types of green infrastructure approaches and the multiple benefits they provide beyond improving water quality. They increase habitat, mitigate floodwaters, provide open space, and enhance aesthetics. In 2010, RIDEM published the *Rhode Island Stormwater Design and Installation Standards Manual*. It promotes the use of LID techniques rather than hard infrastructure like pipes and outfalls. The Town will update its current regulations and requirements for new development to reference the Manual and promote LID for both private development and municipal projects, as appropriate.

K. Municipal Energy Consumption

Reducing the energy consumption by municipal buildings and daily operations, and encouraging the use of renewable energy sources will help the Town meet future fiscal challenges, create jobs and protect the environment. Improvements can reduce maintenance and operating costs as well as capital costs. The Town can lead by example and support private investments of residents and businesses who are taking steps to be more energy efficient.

The 2010 ESCO energy audit prepared by Johnson Controls Inc. outlined initiatives the Town can take to be more energy efficient. Since 2013, the Town has implemented major lighting improvements at Town Hall, the Public Safety Building, the Scarborough WWTF, Community Center, and DPW, as well as the complete boiler and controls system replacement and upgrade at Town Hall and a number of other town facilities. Pending projects include a solar energy power generation project with South Kingstown and URI the two former Superfund sites (Rose Hill Regional Landfill and the Plains Road Landfill). The Engineering Department is also working to purchase streetlights from National Grid and convert them to LED.

Increasing the use of renewable energy sources for municipal buildings and operations will require the Town to evaluate the feasibility of which would be most appropriate and how. The evaluation would consider type, location, construction costs, and operations and maintenance.

Installation and use of renewable energy such as wind and solar by private property owners in Narragansett needs to be in conformance with local zoning ordinances. The Town will evaluate its existing regulations to identify potential barriers and develop alternatives that allow residents and businesses to take advantage of renewable energy.

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6 USEPA, [http://water.epa.gov/infrastructure/greeninfrastructure/index.cfm](http://water.epa.gov/infrastructure/greeninfrastructure/index.cfm) (February 2014)
businesses to take advantage of these opportunities in ways that are appropriate for the surrounding neighborhoods (See Land Use).

L. Goals, Policies and Action Items

Goal CSF 1: Assure that current and future growth is served with facilities and municipal services that are coordinated, adequately funded, and well-maintained.

Goal CSF 2: Provide the Narragansett community with a high level of municipal administration.

Policy CSF 2.1: Provide the community with an efficient government that responds to changing needs.
   a. Upgrade software systems to improve municipal services and processes.
   b. Coordinate departments and establish intra-department communications.
   c. Identify opportunities to share resources with neighboring communities.
   d. Offer continuing education, training and refresher courses for municipal staff.

Policy CSF 2.2: Provide the community with a transparent and open government.
   a. Administer public notifications according to local and state requirements.
   b. Regularly update the Town’s website with current information on municipal operations and activities:
      • Public meetings of governing boards and commissions, contact information of elected and administrative officials, financial and budgetary information, public notifications, municipally-sponsored events, and other Town activities, including department programs and activities.

Goal CSF 3: Ensure that school facilities and grounds are safe and productive environments for students and teachers.

Policy CSF 3.1: Retain the capacity and number of school facilities.
   a. Consider alternative, temporary educational and non-educational uses of school facilities that may not be currently occupied by classrooms. Evaluate short, mid and long-term actions.
   b. As demographic statistics become available, review and update short, mid and long-term classroom and facility needs.
      • Ensure that school core areas meet needs (e.g., cafeteria, kitchen, auditorium).

Policy CSF 3.2: Maintain and upgrade school buildings and grounds to ensure their long-term usability.
   a. Use the School Department’s Asset Protection Plan to identify building and facility maintenance to sustain their long-term functionality.
   b. Continue to improve school buildings with energy-efficient systems, such as lighting, heating and cooling, window/exterior door replacement, etc. Use recent energy audit findings to prioritize projects, establishing short, mid, and long-term actions for the CIP.
   c. Evaluate strategies to improve pedestrian and vehicle flow at Narragansett Elementary School.
   d. Use the high school greenhouses to promote agricultural education for students and the community at large.
e. Prioritize field improvements based on facilities assessment report. Incorporate into CIP.

f. Equip school department buildings, to the greatest extent practicable, to meet current and future technology in educational services. Develop short, mid, and long-term strategies to meeting anticipated advances in teaching methods.

g. Continue to apply for Safe Routes to School funds to improve access to schools for walking and biking.

**Goal CSF 4: Provide the Narragansett community with the highest level of police, fire, and emergency response services.**

Policy CSF 4.1: Ensure that the Police Department has the resources to provide prompt, efficient, and courteous services to the Narragansett community.

a. Continue to evaluate municipal policies and ordinances that address residential nuisance complaints to ensure fair and equitable responses and resolutions.

b. Seek continuing solutions to address the integration of the community with higher education student housing and ensure law enforcement services and protections are available and fairly implemented for all residents, youth, adult, student and seniors alike.

c. Seek funding to address facility, program, and training demands that will increase the Police Department’s ability to respond to community needs.

Policy CSF 4.2: Ensure that the Fire Department and Emergency Response Team have the resources to meet emergency and non-emergency calls.

a. Continue to monitor firefighter facility and equipment needs.

b. Develop a plan to address renovations and expansion at the South End Station.

c. Continue to evaluate alternative sites for a new Fire Department Headquarters.

d. Continue to update and implement the Apparatus Replacement Plan through the Town’s CIP.

e. Evaluate the potential of a regional dispatch for the long-term with North Kingstown and South Kingstown.

f. Establish procedures with North Kingstown and South Kingstown to accommodate events that require additional emergency response resources.

Policy CSF 4.3: Ensure that the Narragansett Emergency Management Agency is able to meet the responsibilities of planning, response, recovery, and mitigation of natural and man-made disasters.

a. Establish a schedule for periodic updates of the Town’s Emergency Operations Plan, as necessary.

b. Coordinate with FEMA, RIEMA, and other emergency response agencies.

c. Integrate the Department of Public Works into the Emergency Response Plan and preparedness training.

**Goal CSF 5: Provide the Narragansett community with library services that accommodate residents of all ages and abilities and meet state standards.**

Policy CSF 5.1: Offer diverse programming that meets the needs of all residents.

a. Link library with municipal historic, cultural, and recreational projects and programs, such as those of the Parks and Recreation Department, Historic Commission, Land Trust, etc.

b. Evaluate opportunities to expand young adult programming.

Policy CSF 5.2: Ensure that all residents have access to library services and resources.
a. Address requirements related to the Americans with Disabilities Act (ADA) and bring current building up to code.

b. Improve internet access to keep up with advances in communications technology and hardware to make the communication available.

Policy CSF 5.3: Ensure that the library facility is functional, adequately maintained, safe for all users, and adaptable to changing technology.

c. Continue to work with private land owner adjacent to the Library to manage parking needs.

d. Continue to move forward with the building program for a 25,000 square foot facility as outlined by the March, 2012 assessment that includes potential funding sources and strategies for expansion, whether onsite or in a new location. Consider expanding the functions of the Library to include that of a Community Center.

e. Consider the benefit of including the senior community in all library related goals.

Goal CSF 6: Maintain an effective Public Works Department that can adequately address construction and maintenance of municipal infrastructure and facilities.

Policy CSF 6.1: Ensure that public works facilities, equipment, and staffing adequately meet the needs of the Town to provide a high level of service.

a. Investigate ways to expand the building and storage potential for the Public Works Department at the Westmoreland Street facility (acquiring adjacent or nearby land).

b. Continue to evaluate staffing capacity to meet demands of services, particularly routine maintenance.

c. Inventory and assess department equipment and commit to a replacement program that can be incorporated into the CIP.

Policy CSF 6.2: Implement long-term improvement programs for roadways, bridges, sidewalks, municipal parking lots, and infrastructure in the public right-of-way, including storm drains.

a. Continue to implement the Pavement Management Program by prioritizing street, sidewalk, curbing, and drainage improvements over the next 10 years.

b. Implement the standard local road construction specification book.

c. Establish a 10-year plan to replace street trees in the public right-of-way that have been removed because of damage or disease and, include a tree maintenance schedule that is funded in accordance with the State Urban Forestry Management Plan.

d. Enter into a mutual aid agreement for Department of Public Works staff and equipment with North Kingstown and South Kingstown.

Goal CSF 7: Provide the Narragansett community with a sustainable supply of safe drinking water.

Policy CSF 7.1: Work with North Kingstown, South Kingstown and SUEZ Water to ensure an adequate water supply for all three communities.

a. Resolve long-term water agreements with SUEZ Water and the Town of North Kingstown.

b. Encourage and support South Kingstown and North Kingstown in their efforts to protect the groundwater resources on which all three towns depend for drinking water.

c. Evaluate potential long-term alternatives to increase inventory and storage of water to accommodate future development if needed.
Policy CSF 7.2: Maintain the functionality of municipal water infrastructure, including interconnections.
   a. Complete the Kinney Avenue and North End Tank Painting Projects.
   b. Prioritize infrastructure improvements for inclusion in the CIP.
   c. Evaluate annually the current pricing structure to ensure full support of operational and capital costs.

Policy CSF 7.3: Encourage the conservation and wise use of drinking water supplies.
   a. Continue to implement conservation techniques.
   b. Continue drought management activities with the RI Water Resources Board and water suppliers in neighboring towns.
   d. Continue the Town’s educational program to teach residents and business owners about different water conservation techniques, such as water saving devices, proper lawn maintenance, etc.
   e. Ensure that new development and redevelopment activities can be accommodated by existing and projected water supplies. (See Policy LU 2.5)

Goal CSF 8: Ensure the proper treatment of wastewater to protect public health and the natural environment.

Policy CSF 8.1: Ensure the efficiency of the Town’s wastewater treatment infrastructure by implementing the Wastewater Treatment Facilities Management Plan.
   a. Improve and extend sewage collection systems in existing developments in the South End (Point Judith Pond watershed) and North End (Narrow River and Wesquage Pond watersheds). Avoid extensions of lines which would stimulate overdevelopment in sensitive areas. (See Policy LU 2.5)
      • Evaluate capacity needs at treatment facilities to determine feasibility of extensions and further steps that may be needed to acquire needed capacity, as appropriate.
      • Review on a regular basis development potential in unsewered areas, particularly the Christian Brothers site south to Clark Road.
   b. Continue to install emergency connections for portable pumps at critical pumping stations.
   c. Identify inflow/infiltration projects that will reduce Narragansett’s overall flow contribution to the Westmoreland Treatment Plant. Use earmarked funds from the new connection permit fee for implementation.
   d. Evaluate the use of innovative sewage treatment methods where it can be shown that there is a net improvement in the environment over the existing conditions.
   e. Evaluate the feasibility of reusing gray water from the Scarborough Wastewater Treatment Facility.

Policy CSF 8.2: Implement and enforce the Narragansett Wastewater Management District.
   a. Support the Conservation Commission in the development of an educational program for OWTS maintenance.
   b. Apply for SRF Program funds as needed to ensure a continuous funding resource for residents to upgrade OWTSs.
Goal CSF 9: Reduce solid waste and maximize recycling.

Policy CSF 9.1: Encourage recycling town-wide to meet the State’s mandatory recycling rate currently set at 35% and total diversion rate of 50%.
   a. Revisit the calculation of recycling and diversion rates for South Kingstown and Narragansett at the Rose Hill Transfer Station.
   b. Increase public outreach and local knowledge on the Town’s municipal residential recycling program.
   c. Continue to build and enhance recycling opportunities associated with the Town’s residential recycling program.
   d. Investigate the development of a local compost facility.
   e. Continue to coordinate and develop diversion opportunities for residents, such as annual EcoDepot events to collect household hazardous wastes and collection of e-waste, as well as paper shredding and other specialized recycling opportunities.
   f. Look for ways to increase recycling opportunities in municipal facilities, such as the School Department and Parks and Recreation sites.
   g. Research ways to educate and incentivize commercial establishments to recycle, particularly large producers of recyclable materials.

Policy CSF 9.2: Continue to monitor obligations for the remediation efforts at the Rose Hill Regional Landfill and West Kingston/URI Disposal Area Landfill.
   a. Maintain financial obligations, as directed under the federal Final Consent Decree, to reimburse the State of Rhode Island for the remediation and ongoing operation and maintenance of the Rose Hill Regional Landfill.
   b. Maintain financial obligations, as directed under state mandate, for site remediation at the West Kingston/URI Disposal Area Landfill under the state landfill closure regulations.

Goal CSF 10: Manage the impacts of stormwater runoff and recognize the added benefits that can be gained from implementing a mix of gray and green stormwater infrastructure.

Policy CSF 10.1: Reduce illicit discharges and non-point source pollutants in local waterways.
   a. Implement Town’s Phase II Stormwater Permit and Stormwater Management Program Plan (SWMPP).
   b. As part of implementation, increase public outreach of the Town’s responsibilities under the Phase II permit and increase local knowledge about how residents and business owners can reduce pollutants in stormwater runoff.
   c. Implement stormwater infrastructure improvement projects as part of the Phase II compliance.
   d. Work with RIDOT to encourage the maintenance of storm drains on state roads in Narragansett, such as Route 108, Route 1, Sand Hill Cove Road, and the Galilee Escape Road.
   e. Investigate the feasibility of establishing a stormwater utility district as a stable source of funding for stormwater permit compliance efforts.

Policy CSF 10.2: Encourage the use of low-impact design (LID) techniques in municipal projects as a way to manage stormwater runoff and improve water quality.
   a. Develop strategies to dispose of materials from maintenance of SW infrastructure, such as basins, swales, etc. (dealing with invasive plant species).
b. Consider and evaluate alternative approaches to “gray” infrastructure (pipes) such as LID techniques (bioswales, rain gardens, etc.) as part of upgrading the municipal stormwater infrastructure improvements.

**Goal CSF11: Reduce energy consumption and encourage renewable energy use by both public and private users.**

Policy CSF11.1: Increase energy efficiency of municipal buildings and operations to reduce energy consumption.
   a. Use the 2010 ESCO energy audit to continue to energy efficiency initiatives for municipal buildings and operations.

Policy CSF11.2: Increase renewable energy use for municipal buildings and operations.
   a. Evaluate the feasibility of municipally-managed renewable energy sources to power municipal buildings and operations in Narragansett (wind, solar, tidal), looking at possible locations, construction costs, maintenance and operations costs/needs.
   b. Work regionally with other Washington County communities to identify opportunities for investment in regional renewable energy projects.
   c. Actively participate in state initiatives that are investigating and promoting renewable energy.

Policy CSF11.3: Provide opportunities for residents and business owners to be more energy efficient and increase the use of renewable energy.
   a. Direct/link residents and business owners to energy efficiency and energy conservation educational materials as well as technical and financial resources of state and federal government agencies and utilities. Resources can address different renewable energy types and their benefits, ways residents/businesses can be more energy efficient in their day-to-day activities, etc.
   b. Conduct a study on the feasibility of providing a municipally-managed residential weatherization program.
   c. Draft zoning revisions and guidelines to allow for renewable energy infrastructure on private property.
V. NATURAL HAZARDS

The issue of natural hazards incorporates a wide range of phenomena, including storms, flooding, heat waves, drought, and tornados. Being a coastal community, Narragansett is most vulnerable to natural hazard events that produce coastal storm surges, flooding and high winds. These events would include severe storm events like Nor’easters, blizzards, hurricanes and other storms that have strong winds and heavy rain. There is a high cost generated from these storms because of loss and damage to public and private property. The community has moderate vulnerability to drought events.

In the long term, perhaps longer than the planning period of the Comprehensive Plan, the Town will be impacted by climate change. Climate change is expected to increase the number and duration of severe storms the region will encounter and cause extreme temperatures. And as climate change impacts the globe, sea levels are expected to rise. The combined impact of sea level rise and increased intensity of severe storms increases risks in the community.

In conjunction with the Narragansett Hazard Mitigation Plan (entitled Strategy for Reducing Risks from Natural Hazards in Narragansett, RI: A Multi-Hazard Strategy), the Comprehensive Plan contains land use policies that can attenuate the impacts of severe storms in the short term and climate change in the long term. The Baseline Report has shown areas most vulnerable to the impacts of storm surges and flooding, as well as sea level rise scenarios, showing areas that would be inundated with 1-foot, 3-foot and 5-foot sea level rise, as projected by the STORMTOOLS flood inundation maps. While these scenarios may not happen in the next ten years, the Town needs to consider the loss of property and impacts to low lying roadways, septic systems, and other infrastructure due to sea level rise as well as properties that are continuously damaged during severe storm events.

A. Formative Issues

- **Maintaining the Narragansett Hazard Mitigation Plan**: The Town has recently updated its Hazard Mitigation Plan and incorporated considerations for the likely impacts from climate change and sea level rise.
- **Protecting Public Infrastructure**: The Town should continue to increase the resiliency of public infrastructure to natural hazards and climate change.
- **Minimizing Impacts to Public and Private Property**: The Town should evaluate and implement land use policies that minimize impacts to both public and private properties and reduce the likelihood of future damage, property loss and potential loss of life.

B. Maintaining Hazard Mitigation Plan

The Narragansett Hazard Mitigation Plan is an important document that is required to be consistent with other local plans and policies. It provides the Town with guidance before, during, and after major storm events and other natural hazards. The Plan has identified those hazard events most likely to impact the Town of Narragansett and evaluated areas most vulnerable to these hazards, including the impacts of climate change and sea level rise. These areas are highlighted in subsequent sections. The Plan also lists mitigation actions the Town should take to minimize its vulnerability to future natural hazard events. They complement and support this Comprehensive Plan.

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7 [www.beachsamp.org/stormtools/](http://www.beachsamp.org/stormtools/)
To ensure that the Hazard Mitigation Plan is most effective in its purpose, the Town will review the plan every five years and after major storm events to ensure that its policies and approaches are still relevant and meet changing conditions. After these reviews, the Town will also look at the policies and action items of the Comprehensive Plan to ensure that they adequately address areas vulnerable to natural hazard events and climate change, and are consistent with proposed updates to the Hazard Mitigation Plan, as appropriate.

C. Protecting Public Infrastructure

It is the Town’s goal to protect critical public infrastructure that could be impacted by natural hazard events and climate change. Long-term plans should evaluate projects that make infrastructure more resilient to these events. All of the Town’s infrastructure (lifeline systems) is potentially vulnerable: roadways, electric and other above-ground utilities, wastewater treatment systems, and water system.

1. Roadways

Due to its geography, there are few roadways that lead into and out of Narragansett. The Town has established evacuation routes through its emergency preparedness policies. While some are state-maintained roads, the Town will work with state officials to ensure that on-going maintenance retains their integrity (See Transportation and Circulation).

Ocean Road and the seawall are particularly vulnerable. After Hurricane Sandy, a segment of the roadway was closed due to heavy damage from the storm. The Town will work with Rhode Island Department of Transportation to ensure the stability of the seawall along Ocean Road as well as the structural integrity of the roadway itself.

2. Utilities

Prolonged power outages after severe storms put many vulnerable populations at risk. The Town will evaluate the feasibility of burying above-ground utilities as a long-term investment. Areas that have a higher susceptibility to storm damage will be prioritized and potential funding mechanisms and sources will be evaluated.

3. Wastewater and Drinking Water Systems

The Town’s wastewater and drinking water infrastructure are vulnerable to coastal surges and flooding associated with severe storms, but also to the long-term impacts of sea level rise. As a priority, the Town will assess the most vulnerable components of its infrastructure, and determine ways to minimize the impacts to the community and the natural environment should it lose some or all the operational capacity. The Town’s current facilities management plan already prioritizes improvement projects and may address many of these vulnerabilities (See Community Services and Facilities). For example, the design of the Scarborough Wastewater Treatment Facility Flood-Proofing Project has incorporated the two-foot increase in sea level rise, as required by the Rhode Island Coastal Resources Management Council (CRMC). Construction will to take place from 2016 to 2017.

D. Protecting Natural Resources

It is the Town’s goal to protect natural resources: 1) when they are detrimentally and negatively impacted by development activities, and 2) when they are threatened by natural hazard events and climate change. The Town’s environmental overlays should be periodically upgraded as new information becomes available and regulatory standards should reflect the latest technology available.
The Town’s Hazard Mitigation Plan entitled, “Strategy for Reducing Risks From Natural Hazards in Narragansett, RI,” should evaluate projects that make structures resilient to major storms, flooding drought etc. The hazard mitigation plan should address at minimum the following areas of concern:

a. Mitigation of Property and Critical Roads
b. Beach Erosion
c. Ocean Road Seawall and Route 1A
d. Sanitary Sewer/Water Lines and Mains
e. Narragansett Beach and Pavilion & other Low-lying Coastal Areas
f. Great Island Bridge/ Lacy Bridge / Middlebridge
g. Point Judith Pond Shoreline
h. Tree Damage
i. Galilee
j. Sewage Treatment Facility
k. Sewage Pumping Stations

E. Minimizing Impacts to Public and Private Property

Understanding and documenting natural hazard events and climate change data will help the Town monitor areas that are vulnerable, particularly low-lying and coastal areas in the floodplain or velocity zone. This information should be used and shared with local residences and businesses, and part of policies developed for applicable Special Planning Areas (See Land Use). Areas that are most vulnerable are (Map 10):

- Town Beach and Pier area.
- Low-lying areas along Narrow River and Pettaquamscutt Cove, dominated by residential uses, protected open space and recreational areas.
- Low-lying Sand Hill Cove residential neighborhoods.
- Jerusalem, which has residential and commercial uses.
- Low-lying areas adjacent to Point Judith Pond, dominated by protected open space, recreational areas and residences.
- Low-lying areas of Harbor Island and Great Island, dominated by protected open space and residences.
- Little Beach in Bonnet Shores.
- Low-lying residential neighborhoods in the Scarborough area.

Map 10 also shows sea level rise scenarios and areas that would be inundated with 1, 3 and 5-foot increases. It also shows areas inundated with sea level rise plus storm surge.
Map 10. Areas Vulnerable to Sea Level Rise
The Town will evaluate alternative strategies that can reduce or mitigate risks to public and private properties, particularly those that experience repetitive losses during severe storm events as well as those vulnerable to sea level rise. Different approaches will be more appropriate in different areas. While not an all-encompassing list, the Town will consider the following strategies:

- **Property Acquisition**: Working with the Narragansett Land Conservancy Trust, the Town can purchase or acquire vulnerable properties or adjacent land to protect them from development or redevelopment.
- **Transfer of Development Rights (TDR)**: A TDR program would allow a property owner of a vulnerable property to transfer or sell their ability to develop to a property owner in an area that is higher and drier and has the environmental capacity to accommodate higher density development.
- **Flood-Proofing Structures**: The Town can make improvements to public facilities that are considered vulnerable to natural hazard events or sea level rise that would make them more resilient. This might include retrofitting structures or raising the elevation of primary floors.
- **Managed or Planned Retreat**: Managed or planned retreat policies establish thresholds that trigger demolition or relocation of structures. These policies would include identifying areas where this approach would be the only solution because of costs or other factors, building standards that would allow the physical retreat of a structure, or relocation assistance to the property owner and/or buy-back programs.

**F. Goals, Policies and Action items**

**Goal NH 1**: Guide land use development and administrative practices to avoid or minimize the effects of natural hazard events and climate change to people, infrastructure and property.

Policy NH1.1: Monitor the implementation of the Narragansett Hazard Mitigation Plan.
   a. Review the Hazard Mitigation Plan every five years as required by the Rhode Island Emergency Management Agency and after major storm events to ensure the plan’s relevancy to changing local conditions. Update Hazard Mitigation Plan and Comprehensive Plan as appropriate.
   b. Review hazard mitigation planning and projects at special municipal meetings as natural hazard events are anticipated, as needed, and scheduled trainings.

Policy NH1.2: Protect critical public infrastructure that could be impacted by natural hazard events and climate change.
   a. Work with RIDOT to ensure the stability of the seawall along Ocean Road (Route 1A) and the structural integrity of Ocean Road and Boston Neck Road.
   b. Evaluate the feasibility of underground utilities as a long-term investment, prioritizing areas with higher susceptibility to storm damage. Consider potential funding sources for implementation.
   c. Enhance and maintain the Scarborough Wastewater Treatment Facility and other wastewater infrastructure in areas vulnerable to natural hazard events and climate change.
   d. Enhance and maintain drinking water infrastructure in areas vulnerable to natural hazard events and climate change.

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8 Managed Retreat Strategies, NOAA: [http://coastalmanagement.noaa.gov/initiatives/shoreline_ppr_retreat.html](http://coastalmanagement.noaa.gov/initiatives/shoreline_ppr_retreat.html)
Policy NH1.3: Minimize the risks to public and private property from natural hazard events and climate change.

a. Evaluate and document new climate change data as they become available to monitor Town areas vulnerable to flooding and sea level rise.

b. Connect residents and business owners to information about climate change and sea level rise, and how their lives and property may be impacted in the long term.

c. Evaluate alternative strategies to reduce/mitigate risks to public and private properties that experience repetitive losses during storm events as well as areas vulnerable to sea level rise. Consider alternatives such as property acquisition, TDR, flood-proofing structures (e.g., retrofitting, elevation), or retreat.

d. Continue to evaluate alternatives and feasibility of beach replenishment at the Town Beach.
VI. TRANSPORTATION AND CIRCULATION

A community’s transportation network is like its life support system. At its basic form, it moves people and goods. From a comprehensive view, it is a complex, efficient system that contributes to improved environmental quality, economic vitality, and access to housing, employment, recreation, and social opportunities for residents. Transportation systems also can influence, and be influenced by, adjacent land uses.

Narragansett’s transportation network includes a variety of components, including roadways, bike paths, public transportation, sidewalks, and the ferry at the Port of Galilee. There is also an important freight corridor along Routes 1 and 108 to Galilee, which allows goods to be delivered to and from New Shoreham (Block Island). The transportation network in Narragansett is owned and maintained by either the Town or the State. These entities are responsible for maintenance and upkeep to ensure safe conditions for its users. The Town also ensures that the transportation needs of the community are met.

During discussions with residents and local officials, transportation and circulation were seen as two of the highest priority topics in the Comprehensive Plan. More than any other topic area, residents were able to identify concrete and specific challenges throughout the community and, in many instances, potential solutions. The ability to move pedestrians, cyclists, motorists, and boaters was discussed in its relationship to healthy residents, safe neighborhoods, environmental quality, and economic viability.

A. Formative Issues

- **Traffic Congestion and Safety** – Summer traffic and land uses contribute to congestion in tourist destinations like Narragansett. But these issues are exacerbated by design choices that create conflicts between different modes of transportation.

- **Maintenance and Local Regulations** – Narragansett recently approved funds to upgrade the conditions of its roadways, which will provide measurable benefits to the community. However, like many communities, resources for maintaining municipal roadways are stretched and the Town will need to continually evaluate its need for staffing and equipment. Local standards for transportation infrastructure are in need of re-evaluation.

- **Pedestrian and Bicycle Accommodations** – Pedestrian circulation around town, and especially at the Pier, is not planned or well-supported. Biking is an activity in which stakeholders showed great interest, but it was acknowledged that biking on local roadways can be challenging and dangerous.

- **Complete Streets and Parking Management** – The design of streets in Narragansett was historically performed to accommodate large volumes of summer time automobile traffic. While this is clearly an important issue, there is a recognized need to build in a more “complete” design perspective and, where appropriate, build in accommodations for bicyclists and pedestrians. Similarly, the system for parking in Narragansett’s busier districts should be revisited to optimize the use of land and increase access of visitors to local business.

- **Public Transportation** – The ability to access public transportation in Narragansett, as with most communities in South County, is limited. Nonetheless, stakeholders were able to identify several potential improvements to the existing bus service and to water-based transit, which creates unique policy needs for the Town.
B. **Traffic Congestion and Safety**

Traffic congestion issues in Narragansett are largely a function of the Town’s geography. The circulation system consists of two major arterial roads running north-south (Boston Neck Road and Point Judith Road) and several major collector roads running east-west. Local streets are interspersed in between the major routes. The major routes provide local access throughout the Town and also function as primary carriers of freight traffic year-round, which is compounded with recreational traffic during the summer months. Traffic volumes along Narragansett’s principal arterials are influenced primarily by seasonal traffic but also service a large volume of motorists from the Town’s commuting population and freight transit. To help address seasonal traffic congestion caused by visitors to the beaches and the ferry from Galilee, especially on Point Judith Road, the Town could explore expanded shuttle service to between Galilee and other areas of Town.

Circulation and traffic issues can be identified in many specific areas and/or roadways in the community. The intersections with the highest number of accidents occur along Point Judith Road (Route 108) and Route 1. Both these roads carry large volumes of traffic and the accidents occur primarily at intersections where design is substandard to accommodate the volumes and movements of traffic generated in the summer months. There is a concentration of high accident intersections along Point Judith Road near the intersections with Route 1A, South Pier Road and Woodruff Road. This area has a high density of commercial land uses with multiple curb cuts which create conflicts between through traffic and traffic turning and entering. A variety of other improvements have been discussed to address traffic safety and congestion for specific areas. Improved traffic signal coordination, curb cut management, and shared driveways have been discussed along Boston Neck Road and elsewhere.

From a land use perspective, recreational use and commercial development directly impacts traffic volumes and can create problems with circulation. In order to maintain adequate traffic movement, the traffic impacts from commercial development must be controlled. In particular, the Town has expressed interest in developing transportation improvements in coordination with land use changes at Caswell Corner, at the intersection of South Pier Road and Old Point Judith Road. An existing commercial driveway along South Pier Road (southeast quadrant of the intersection) could potentially be extended to provide a through connection to Old Point Judith road and improve vehicular circulation. See further discussion of these areas in **Land Use**.

As with all other systems in the community (natural and man-made), the transportation network of Narragansett has been impacted by natural hazards. Interestingly, the temporary changes to circulation along Ocean Road, as a result of damage caused by Hurricane Sandy in October 2012, provided evidence of a potentially beneficial permanent change. In coordination with the Rhode Island Department of Transportation (RIDOT), the Town will explore the feasibility of making Ocean Road and Boon Street each one-way to improve traffic circulation in this area, or possibly an expansion of the promenade on the east side of the roadway.

C. **Maintenance and Local Regulations**

The Town initiated a roadway improvement program in 2012 to address the deteriorated condition of local roads. An inspection of the Town’s 108 miles of roads revealed that more than a third of the mileage is failing and in need of either reconstruction or reclamation. Voters recently approved a $17 million bond to fund a multi-year improvement program to increase the overall grade of the Town’s roads. Through five phases, 34 miles of roadway (31.5% of total roadway miles in the Town) would be improved. With regard to roads under state jurisdiction, Town Council, Planning Board and staff should
continue to be actively involved in reviewing Transportation Improvement Program (TIP) items with RIDOT. This process should include collaborative planning between these groups and the community at large.

The Town has design standards for local road construction that could benefit from a critical review and potential updates. These standards could be modified to relate road pavement width, curbing, sidewalk requirements, and sub-base to functional classification and neighborhood character. The Town’s Subdivision and Land Development Regulations currently provide for establishing road connections between adjacent subdivisions. This is an important safety provision as it provides a second means of entering or exiting a subdivision if one primary access is blocked. It also allows for continuance of public service functions such as trash collection and school bus routes. Inter-connections between subdivisions make it unnecessary for vehicles to re-enter major streets to access adjacent subdivisions and can result in reduced traffic volumes on arterial roads. Where opportunities present themselves, the Town can build these links. It will be important to highlight the community benefits of connecting subdivisions that have long been isolated in order to build consensus for this to be achieved.

The community has expressed interest in protecting the aesthetic quality of its scenic roads, particularly along undeveloped sections of Route 1A. Scenic portions along Old Boston Neck Road may also merit protection. More discussion of scenic resources is found in Historic, Cultural and Scenic Resources.

D. Pedestrian and Bicycle Accommodations

Increasing opportunities to walk and bike encourages residents to be more active and healthier. If it is easier to walk or bike from residential areas to retail or commercial areas, the number of vehicles on the road may be decreased. Residential areas should also be connected to schools, parks and natural areas to the extent practical (see Housing and Neighborhoods and Recreation and Open Space). Providing these types of opportunities improves quality of life and creates more opportunities for residents to interact with each other, building a greater sense of community.

There are several areas in Town that have opportunities to increase biking and enhance bike safety. Boston Neck Road/Route 1A is a designated signed bike route by the Rhode Island Department of Transportation (RIDOT). The William C. O’Neill Bike Path between Kingston Station in South Kingstown and Mumford Road in Narragansett is planned for expansion to Narragansett Town Beach. The extension is listed on the state’s 2013-2016 Transportation Improvement Plan (TIP) as the South County Bike Path Extension and will receive an estimated $1.55 million in federal dollars. The Town strongly supports the bike path extension and will work diligently to keep the project moving forward.

The large numbers of residents and visitors to the Town beaches increases pedestrian and bicycle activity, in the vicinity of the Town Beach and Pier Area. A Pedestrian Safety Audit was conducted in 2012 to evaluate current conditions and identify potential improvements. The audit is found in Appendix D. While the study area is bound by the Town Beach and the Pier Marketplace, the perimeter building in this mixed-use development facing the beach is limited to residential condominiums. Those who are not familiar with the area may not know about the businesses and restaurants on the other side or below the residences. Better wayfinding signs will increase visibility of these businesses and direct pedestrians from the beach and those walking along Ocean Road and Boston Neck Road to them (See Economic Development).
E. **Complete Streets and Parking Management**

Several mixed-use, compact centers exist within the Town, most notably Boon Street and the Pier Area, which have a higher concentration of pedestrian activity. The village character of these areas can be enhanced through a “Complete Streets” focus that places greater emphasis on pedestrian circulation and comfort, along with other modes including bicyclists and bus transit users (See Land Use). An overall parking strategy that encourages visitors to these areas to park, off-street if necessary, and then become pedestrians will further enhance the attraction of these places (See Economic Development).

A general lack of parking was identified, in the vicinity of the Pier, by those attending the Town’s public workshops. Seasonal parking demand may be best managed with an expansion of shuttle service between the beaches and ferry and remote parking lots, such as Town Hall, schools, and the community center.

F. **Public Transportation**

A small segment of the population currently uses bus service of the Rhode Island Public Transit Authority (RIPTA) for commuting or other trips. The community expressed skepticism that bus ridership could be significantly increased. A large proportion of the population currently commutes to work by private automobile from Narragansett and these commuters may opt to use public transportation if bus service becomes more convenient and cost effective, e.g. through expanded availability of park and ride lots. One potential location is the Salt Pond Shopping Plaza. Initial outreach has been made with the property owner, and feasibility should be explored further. The Town has also expressed interest in improving bus facilities and amenities at this location. Passengers currently board at the Stop & Shop main entrance, which causes traffic congestion at times; the possibility of relocating the bus stop to a centrally located bus shelter has been raised, and any further study should be coordinated with RIPTA.

Variability in RIPTA’s bus schedule has been an issue with overall quality of service. RIPTA’s Five-Year Strategic Plan (2011) lists a South County local transit enhancement study in association with the Washington County Regional Planning Council. That initiative has not yet begun as of spring 2014, according to Jeffery Broadhead, Executive Director of Washington County Regional Planning Council. There is no active rail service in Narragansett. RIDOT is currently studying the feasibility of light rail service throughout Rhode Island. The feasibility of light rail service to Narragansett should be considered, perhaps as a seasonal transportation alternative.

Another area of demand is the need for local transit opportunities. The Town’s Community Center owns a bus that is used primarily for group field trips and excursions. This asset may have a broader range of usage for local trips to and from the Center as well as regularly scheduled stops around town and nearby Wakefield. Such a service would be open to all but would be targeted to the senior population. With only three RIPTA routes servicing parts of Narragansett, there is a clear need to supplement this service with better, reliable public transportation options for senior citizens.

The Town should institute, either directly or through third party providers Trolley Service for beach transportation, tourist and resident circulation to points of interest, including routes with regularly scheduled stops in both Narragansett and Wakefield, in coordination with local businesses and where appropriate, the Town of South Kingstown. Expansion of the use of the Community Center Bus should also be explored.
Currently from Galilee, Block Island is the only destination available by water-based transportation systems. The Block Island Ferry moves people and goods between Galilee and Old Harbor on Block Island.

There may be opportunities for additional water-based transportation/commuting services the Town may wish to explore with RIDOT and private vendors. A pier developed at Narragansett Pier or improvements to Pier 5 for this purpose should be investigated. Alternative destinations from Galilee may also be the subject of future study, including boat launch service to Jerusalem. Pursuit of a public/private initiative to provide service between Narragansett and such destinations as Martha’s Vineyard, Nantucket, Montauk, and New London should be an open and continual objective.

G. Goals, Policies and action items

Goal T1: Promote safe and efficient traffic circulation throughout the Town’s transportation network.

Policy T1.1: Maintain existing infrastructure in a timely and cost-effective manner.
   a. Continue to encourage and cooperate with RIDOT to maintain and improve State roadways in the Town. Clarify ownership and maintenance responsibilities of roads on the federal aid system.
   b. Continue implementation of the multi-year pavement management program to maintain and rehabilitate local roadways. Consider expanding the management program to include other items such as sidewalks, curb ramps, sign replacements, and signal upgrades.
   c. Develop inventory of sidewalks and curb ramps and a plan for improvement program for deteriorated and non-ADA compliant locations.
   d. Establish annual monitoring and maintenance of pavement markings, signage, and traffic control devices, including repair and replacement of signs, trimming of overgrown vegetation, cleaning, and repainting crosswalks, center lane, and edge lines including bike lanes, and symbols and miscellaneous markings.

Policy T1.2: Pursue improvement projects to address safety deficiencies and congested areas.
   a. Coordinate with RIDOT to identify improvement projects that address high-accident and congested locations, and aggressively pursue funding.
   b. Initiate studies and/or safety audits to identify potential improvements for high-accident locations that are not part of ongoing or planned projects.
   c. Review recommendations of the Pedestrian Safety Audit (Appendix D) for the Pier Area and determine priorities for implementation.
   d. Encourage replatting and redesign of paper streets that do not meet current safety standards.
   e. Explore one-way circulation conversion for Ocean Road and Boon Street or expansion of the promenade on the east side of the roadway
   f. Explore potential signal timing modifications, queue management in cooperation with RIDOT:
      • Boston Neck Road at Beach Street
      • Boston Neck Road between South Ferry Road and Metatuxet Road
      • Woodruff Avenue at Route 1 off ramp
      • Point Judith Road from Woodruff Road to Salt Pond Plaza
   g. Explore opportunities for shared driveways or service roads along Point Judith Road, Boston Neck Road.
h. Pursue interconnections between subdivisions, where appropriate. Appropriate locations are those in which connectivity can be enhanced without detrimental impact in terms of cut-thru traffic or a change in use of subdivision roads.

Policy T1.3: Explore multimodal projects that complete connections and promote safe interactions between motor vehicles and pedestrians and bicyclists.
   a. Explore and implement pedestrian and bicycle improvements at locations where high volumes of pedestrians are present, e.g., Narragansett Town Beach, Narragansett Avenue, Narragansett Towers, Boston Neck Road, Bonnet Shores and the intersection of Point Judith Road, and Ocean Road along with other major arterial intersections in order to connect bike and pedestrian desired lines.
   b. Continue to pursue and utilize the Safe Routes to School program to improve non-motorized connections and access to school campuses. Prioritize pedestrian improvements at key locations within one mile of schools, including sidewalks, crosswalks, and curb ramps.

Goal T2: Support a variety of transportation choices that contribute to a cleaner environment and a healthier community.

Policy T2.1: Integrate Complete Streets principles into all local transportation projects to better accommodate all users regardless of mode, age, or ability.
   a. Adopt a Complete Streets policy that applies to all new and retrofit projects in the Town.
   b. Provide information about the benefits of Complete Streets principles to the public and Town staff, and publicize successful projects that integrate the principles.
   c. Continually monitor performance of transportation projects to evaluate their benefits and impacts.

Policy T2.2: Promote walking and biking as attractive, practical choices for recreation and every day trips.
   a. Develop and implement a long-term sidewalk improvement program, building on the inventory developed for past and current Safe Routes to School projects.
   b. Develop a comprehensive Town-wide pedestrian and bicycle network, consistent with state plans, that includes off-street paths, on-street bike lanes, shared lane markings, and signed routes. Build on the Town’s evolving trail system by establishing connections, as feasible, between existing trails on Canonchet, South Pier Road, at Whale Rock, and at Black Point. For signed bike routes, consider a scenic ocean route and a village-oriented route. Develop distinct wayfinding signage for each route. Prepare bike map handouts showing entire bike route and points of interest for placement at kiosks. Integrate shared or separate facilities for pedestrians and bicycles as appropriate.
   c. In conjunction with action item (c) under Policy 1.3 for Safe Routes to School programs, develop and implement a public education program about bicycle safety and bicyclists’ and motorists’ rights and responsibilities. Utilize multiple dissemination platforms, including Town website, newspapers, public television, and schools. Continue to offer bicycle safety curriculum in schools.
   d. Identify potential locations for bike racks and pedestrian bench installations, and increase the numbers of these amenities at key locations.
   e. Explore the potential for a community bicycle-sharing system, evaluating costs and possible public/private partnerships. Town will take the lead to develop and implement a pilot...
program in cooperation with local businesses, using the Mystic, CT program (and others, as appropriate) as a model.

f. Consider the implementation of bike lanes and signage on Route 1A.

g. Advocate for the William C. O’Neill Bike Path extension to Narragansett Town Beach that is currently on the state TIP. Identify other potential locations for bike path extensions within Narragansett as future TIP projects.

Policy T2.3: Explore opportunities to expand access to high-quality transit service.

a. Work with RIPTA to provide adequate curbside and street-side facilities for RIPTA bus operations, including clearly marked bus stops and bus stop amenities that enhance rider comfort and safety.

b. Improve park and ride access to RIPTA bus service by coordinating with parking lot owners (e.g., Salt Pond Shopping Center) and with RIPTA to establish high-quality facilities for riders.

c. In conjunction with sidewalk programs, identify missing links in pedestrian infrastructure between bus stops and residential areas with high transit usage, and implement improvements.

d. Coordinate with RIPTA and RIDOT to identify and implement bus turnouts at appropriate locations, while balancing the needs of bus operations with general traffic flow. One location could be at Narragansett Town Beach.

Policy T2.4: Consider the land use-transportation connection for all future development decisions and plans in order to manage traffic demand and ensure multimodal access.

a. Require traffic impact studies for new developments. For large-scale developments, implement peer reviews of traffic studies to be paid for by developer to ensure accuracy and completeness of studies. Ensure that the project’s transportation mitigation is in scale with the size and consequential impact of the proposed project.

b. Explore development impact fees or other mechanisms by which developers could contribute toward large-scale transportation improvements in lieu of providing specific infrastructure improvements as project mitigation.

c. Implement appropriate land use controls and transportation design review standards to maintain the functional integrity of the existing road system. Review and update transportation design standards to incorporate complete street policies, and implement these changes into the land use controls.

d. Consider livability issues in addition to mobility and safety issues when prioritizing transportation projects.

e. Coordinate transportation improvements for the intersection of Point Judith Road (Route 108) and South Pier Road and the surrounding development with future land use recommendations, in order to improve safety and circulation throughout Caswell Corner. Explore the potential for connecting the existing driveway from South Pier Road to Point Judith Road to create a connection for enhanced circulation.

f. Consider a study that will result in an access management plan for Boston Neck Road to establish policies that would ensure that new development and redevelopment do not degrade existing traffic conditions. Plan should review all modes and make recommendations to improve existing congestion conditions.
**Goal T3:** Develop a context-sensitive transportation network that enhances the unique characteristics of the Town’s neighborhoods and key attractions.

Policy T3.1: Ensure transportation projects are designed and constructed in harmony with the local community and preserve scenic, historic, and environmental values of the area.
   a. Continue to designate appropriate roads as scenic and develop and implement standards to maintain the scenic quality of designated roads. Adopt regulations for alterations and construction in scenic ROWs to preserve scenic quality.
   b. Develop processes for identifying potential locations for traffic calming measures and for selecting appropriate measures based on the needs of selected locations.

Policy T3.2: Integrate transportation infrastructure in multidisciplinary “placemaking” efforts for individual districts and destinations.
   a. Pursue transportation and streetscape improvements to Boon Street that enhance its character, in conjunction with economic development goals. Conduct parking utilization and turnover studies to inform parking management changes. Explore access to off-street parking lots to supplement on-street parking supply.
   b. Enhance pedestrian and bicycle amenities at the Pier, the Towers and Town Beach.

Policy T3.3: Provide transportation infrastructure that supports the economic activity of the Town’s shopping and tourist areas. (See Policy T3.4)
   a. Consider selecting Ocean Road between Town Beach and South Pier Road as a pilot location for enhanced traffic calming measures including the items identified in the Pedestrian Safety Audit (Appendix D), such as roadway neckdowns at crosswalks, potential textured or raised crosswalks, and bollards installed closer to the roadway to slow drivers.
   b. Evaluate potential parking management strategies for Galilee, Town Beach, and in the vicinity of the Pier, to address perceived lack of parking supply. Implement appropriate measures such as variable pricing, shuttle service from parking, and other innovative best practices. Explore opening South Beach parking lot for evening parking for the Pier Area/Towers until 1:00 or 1:30 AM, and promote parking availability there with appropriate signage and possibly in The Towers brochure.
   c. Develop and implement transportation safety plans for large events such as firework displays, and provide alternative parking and shuttle options to reduce traffic
   d. Revisit the summer beach trolley service in the future.

Policy T3.4: Ensure that development around the Port of Galilee supports its use as a state-owned commercial fishing port and intermodal terminal.
   a. Explore multimodal transportation improvements for Galilee, including shuttle service, seasonal RIPTA service and parking management in conjunction with the ferry service.
   b. Monitor internal circulation of heavy vehicles to ensure movement of freight (to and from the ferry terminal as well as to and from commercial fishing piers and surrounding support businesses) is accommodated and efficient.
VII. HOUSING AND NEIGHBORHOODS

Narragansett is a great place for families, retirees, and individuals alike. It offers a scenic, seaside location, in close proximity to local employment and retail hubs like Quonset Business Park in North Kingstown, the University of Rhode Island in Kingston, and Main Street in Wakefield. Narragansett possesses a mix of characteristics attractive to families seeking a high quality of life, including great schools, low crime rate, and exceptional active and passive recreational opportunities.

When a community plans for housing, it considers its existing stock and how that meets the needs of residents today and into the future. Today, Narragansett is a predominantly residential community, and based on the very limited availability of developable land, Narragansett will remain a “bedroom community” into the foreseeable future. Because the Town is close to full build-out, future residential development will occur differently than it did even 20 years ago. Infill and redevelopment will provide the primary market opportunities for new homes, rather than the construction of brand new subdivisions. This is consistent with regional construction trends, which show that infill development continues to trend upward as the supply of vacant land decreases and the market demand for smaller homes continues to rise. This element of the Comprehensive Plan will consider these conditions, other conditions identified in The Baseline Report (e.g., demographics, etc.), statutory requirements, and the input of residents to shape future polices and housing strategies.

A. Formative Issues

At public forums and in discussions with municipal officials, participants discussed numerous opportunities and challenges faced by the Town relative to housing. Four major issues or themes emerged in these discussions:

- **Seasonal Housing** – The Town needs to balance the demand for year-round rentals with the desire of property owners to rent their properties seasonally.
- **Neighborhood Character** – Tearing down small cottage homes and replacing them with large homes that dominate the landscape is a problem in some older neighborhoods.
- **Affordability** - There is a shortage (and need) for affordable housing and starter homes. This is driven by the market and by demographic changes.
- **Low and Moderate-Income Housing** – Most of the town is “built-out.” Therefore, an aggressive set of tools related to small infill opportunities and incremental increases to the stock of low and moderate-income housing will be needed to meet the state mandated goal of 10%.

B. Seasonal Housing

Consistently for the past 20 years, nearly one quarter of the Town’s housing stock has been rented seasonally. From June to August, homes are generally rented on a weekly basis to tourists, and from September to May, they are rented to University of Rhode Island (URI) students. There are many positive and negative implications and impacts of these transient residents on the community. On the positive side, summer renters support the tourist economy by frequenting local stores, visiting local tourist sites, and eating at local restaurants. Student renters also shop and eat locally and support local businesses during the “off season.” However, noise, property abuse, and overcrowding can occur with these rental properties and some problems have been documented. Many of these students have never lived on their own and may be unaware of their responsibilities as tenants. Enforcement and management efforts have been implemented and the Narragansett Police Department has increased...
their efforts to limit the impact of students on neighborhoods. Coordination between URI, students, and the Town needs to continue in order to develop regulatory and programmatic solutions that will alleviate problematic situations. Also, developing incentives that promote year-round rental will create a sustainable population throughout the year, which can not only support local businesses, but support community life.

C. **Neighborhood Character and Design**

The demand for housing in Narragansett is high, particularly for properties on or near the water as well as those with water views. Some of the older neighborhoods in these areas began as summer colonies with modest homes built on smaller lots. These homes typically were not constructed for year-round living. Many do not meet today’s more sophisticated building codes. In many cases the original summer homes have been converted to year-round living. Interest in these areas has also increased over the decades and the historic and older homes are being replaced with newly renovated or constructed structures, and smaller homes are replaced with larger, taller homes. These impact the original summertime-only character of the neighborhood. Higher structures block views and change the overall appearance and scale of the area.

Positive and responsible change occasioned by these activities can be accomplished through land use policies that promote consistency with and furthering of the neighborhood’s character. Land use policies ought consider limitations of building site coverage in environmentally sensitive areas, and encourage “green” but economically affordable design. The Town’s existing environmental overlay districts require development and redevelopment projects to meet performance standards that will reduce negative impacts on the natural environment. Another tool the Town has used with success is floor-area ratio (FAR) standard to maintain the density of a neighborhood. FAR is defined as the useable floor space of a building divided by the size of the lot. It is a way of measuring intensity rather than building coverage on the lot. Factors such as setbacks and height limitations must still be considered and applied in accordance with existing law. It is particularly helpful in managing lot coverage issues and building height exceedances. The illustration below shows how FAR can be applied. While FAR is a tool suggested for adoption by the Comprehensive Plan, it is not exclusive and may be also not apply to every development or property.

![Example of how to calculate FAR](Source: Manteca, California Zoning Code)

The Town has used FAR standards with success in one area to manage improvements, modifications, alterations and reconstruction of single family homes and accessory structures. Breakwater Village Special District is an example. There may be other neighborhoods in Narragansett where FAR could be
considered in whole or in part to be applied to minimize environmental impacts and maintain neighborhood character.

Design guidelines are another tool to ensure high quality design and projects that are complementary and consistent with neighborhood character. Design guidelines can promote investment in an area, address unique development challenges, diversify housing options, make areas more walkable and easier to access, and encourage historic and cultural preservation. They must, however, be implemented cautiously in existing neighborhoods to avoid impinging on liberty, freedom of choice and expression. The most critical step in developing design guidelines is working closely with the residents (and businesses) of an area to ensure that their vision is captured. Clear descriptions along with illustrations are important to convey ideas and desired outcomes. Design guidelines can be implemented through a zoning overlay with incentives that encourage property owners to develop their projects with the vision of the neighborhood residents in mind. They can be part of the building permit process or development plan review.

Strengthening neighborhood design guidance can also incorporate connections to nearby community resources, such as schools, parks, and conservation areas. Encouraging more opportunities to walk and bike to these areas as well as adjacent neighborhoods and commercial areas helps support healthier lifestyles. Examples include bike and walking paths, sidewalks, and bike lanes on roadways. Providing the infrastructure for walking and biking also reduces the need to drive, and lowers transportation costs. Increasing access to public transportation also will reduce these costs. Land use policies for both residential and commercial development should include requirements for neighborhood connections and include infrastructure for walking and biking. The Town will evaluate existing neighborhoods for access deficiencies and develop plans to improve connections and access to resources.

D. Affordability

Narragansett, along with many communities in Rhode Island, strives to ensure residents have access to safe, affordable housing. The cost of a single-family home in Narragansett is the highest in Washington County and averaged $355,000 in 2011. A typical monthly housing payment for this home would be approximately $2,427 and would require a household income of $97,100. For 2010, Rhode Island Housing reported that rents in Narragansett were on average $1,285 for a two-bedroom unit and $1,722 for a three-bedroom unit, $120 and $190 more than the state average respectively. To afford these rents, a household would need an average income of $51,400.

As a result, many young professionals and young families appear to be priced-out and unable to purchase a home in town or unable to find year-round rentals. According to the American Community Survey (2010), between 30% and 40% of Narragansett homeowners were paying too much for housing, which includes utilities, insurance, mortgages, and fuel (households paying more than 30% of its income on housing is considered unaffordable). As a result, the inability for first-time homebuyers to find a reasonably-priced home and the limited opportunities to rent year-round have pushed young families and young professionals to look to other communities to live. From the year 2000 and 2010, the Town’s population between the ages of 25 and 55 decreased by 50% (2010 U.S. Census).

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9 HousingWorks RI calculates this using a 30-year mortgage at 4.69% interest (2010 average rate) with a 3.5% down payment, property taxes (state’s average rate of $16.44 per $1,000 of the homes valuation), hazard insurance ($75/month), and monthly mortgage insurance (1.15%/month).

10 HousingWorks RI Factbook, 2010. www.housingworksrci.org
Another important demographic change is an increase in residents over the age of 55. As the baby boomer generation ages and retires, many will decide to stay either in their current homes or look for smaller, more affordable options. With the few year-round rental units and higher rents in Narragansett, staying in the community will be a challenge. Providing more affordable alternatives, including rentals, can give these individuals the opportunity to stay in Narragansett.

Increasing the diversity of housing choices in Narragansett will increase opportunities for families and young professionals to return to Narragansett as well as offer options for seniors to down-size and still remain in town. Building a stable, more diverse year-round population will also support local businesses and provide a reliable customer base throughout the year. Developing incentives to encourage more property owners to provide year-round rentals is one way Narragansett can effectively answer to a rising market demand.

**E. Low and Moderate-Income Housing**

In 2004, when the costs of homes and land in Rhode Island were steadily rising, the state acknowledged a shortage of affordable homes for residents with low and moderate incomes. To meet the need, the state legislature passed the Rhode Island Low and Moderate-Income Housing Act (the Act). The Act requires every municipality to develop strategies that create opportunities for low and moderate-income households, and mandates that each community have 10% of their housing stock dedicated to meet this need through subsidized affordable housing. The Act defines low and moderate-income housing as:

“any housing whether built or operated by any public agency or any nonprofit organization or by any limited equity housing cooperative or any private developer, that is subsidized by a federal, state, or municipal government subsidy under any program to assist the construction or rehabilitation of housing affordable to low or moderate income households, as defined in the applicable federal or state statute, or local ordinance and that will remain affordable through a land lease and/or deed restriction for ninety-nine (99) years or such other period that is either agreed to by the applicant and town or prescribed by the federal, state, or municipal government subsidy program but that is not less than thirty (30) years from initial occupancy.” (R.I.G.L 45-53-3)

Low and moderate household incomes are based on household size and defined as those earning between 80% and 120% of the area’s median income, which is updated annually by the U.S. Department of Housing and Urban Development and reported by Rhode Island Housing. In 2012, the low and moderate-income parameters for a family of four were between $60,500 (low income) and $90,700 (moderate income).11 To put this into perspective, below are reported average entry-level salaries of workers in Rhode Island in 2011 for select occupations.12

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Salary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Childcare worker</td>
<td>$18,760</td>
</tr>
<tr>
<td>Home health aide</td>
<td>$22,320</td>
</tr>
<tr>
<td>Bank teller</td>
<td>$22,820</td>
</tr>
<tr>
<td>Mental health counselor</td>
<td>$28,300</td>
</tr>
</tbody>
</table>


While these figures provide just a snapshot of typical salaries, they illustrate the potential difficulty that people working in these fields might have affording either rental or ownership property in Narragansett, where the average rents are $120 to $190 more that the state average and single-family sales prices are the highest in Washington County.

Rhode Island Housing reports that in May 2011 there were 250 low and moderate income (LMI) units in Narragansett for families, the elderly, and populations with special needs. These units represent 3.5% of its 7,156 year-round housing units. Since that time, another 18 units have been constructed and 109 have been approved but not yet constructed. The Town is still well short of meeting the state-mandated goal of 10%, or 716 LMI units.

1. **Existing Strategies to Create Low and Moderate-Income Housing**

Prior to 2014, the Town implemented several strategies to create LMI units to meet the demand for affordable units and the state-mandated goal of 10% LMI housing units with the oversight from the Narragansett Affordable Housing Board (NAHB). In 2014 the NAHB dismantled and oversight now lays with the Narragansett Affordable Housing Trust (see below).

   a) **Comprehensive Permit Process**

   According to the Act, applicants proposing to build projects with 25% or more of LMI units may submit to the local review board (the Planning Board) a single application for a comprehensive permit, in lieu of separate applications, to all applicable boards (R.I.G.L 45-53-4). The applicant must receive a letter of eligibility from Rhode Island Housing to do so.

   To date, all development proposals with LMI units have been reviewed by the Town through the comprehensive permit process. It is anticipated that more proposals will be brought before the Town in this manner. The Town should investigate ways to develop standard criteria when reviewing proposals, making the process more predictable, while still recognizing that each has unique conditions.

   b) **Inclusionary Zoning**

   The Town’s Inclusionary Zoning Ordinance requires developers to include LMI units in their proposed projects. Projects with six units or more are required to have 20% of the total number of housing units be dedicated as LMI units. The ordinance was adopted in 2008 and it has yet to be used. Efforts will be made to review the ordinance and develop new incentives that will make it more attractive to developers. One alternative could be fee a in lieu of the units, which could be put into the Affordable Housing Trust Fund (see below) and used to develop LMI units in areas that might offer better opportunities for residents, such as increased access to multiple transportation options or distance to needed services.

   c) **Accessory Units**

   Under the Affordable Accessory Dwelling Unit ordinance, the Town allowed, for a limited time, the rehabilitation and legalization of previously non-conforming accessory units as long as they were
affordable. Only one unit was developed under this strategy and this ordinance has since expired. The Town should revisit this approach to enhance its desirability and use. Elements of the ordinance to consider for change include its applicability to new construction and a consideration of whether accessory units will be allowed outright in some areas or just as LMI units.

d) **Affordable Housing Trust Fund**

The Affordable Housing Trust Fund has been established to accept funds as well as property to execute affordable housing policies and actions, but it has not been used to create LMI housing to date. The Narragansett Affordable Housing Trust (NAHT) oversees activities that will be implemented through the Fund. The Town will continue to look for ways to increase activity from the housing fund, including potential partnerships with the Narragansett Land Conservancy Trust.

e) **Construction of Affordable Housing on Town Properties**

The Narragansett Housing Authority provided oversight for the construction of LMI units on town property located on Coffey Avenue, Frances Avenue, Clark Road, and Fifth Avenue. Other opportunities may exist, and the Town should evaluate available town properties, or properties it can acquire, for the development of LMI units. This effort can benefit from and should be coordinated with the Affordable Housing Trust Fund.

f) **Development of Substandard Lots**

In 2007, the Town began examining the possibility of unmerging substandard lots in an effort to develop LMI single family housing. Consensus regarding the details of this strategy was not achieved due to concerns over density and the long-term viability of the approach. The strategy should be revisited, considering different levels of density and the impact of these types of developments on neighborhoods.

2. **Considering New Strategies**

As the Town progresses in meeting the state-mandated goal, new policies and strategies to create LMI units should be considered. The Town is reaching its buildout capacity, which limits the amount of new construction that can take place. The development of LMI housing will have to become more creative and incorporate approaches that encourage infill and redevelopment of existing housing. Some approaches the Town will review include:

a) **Infill and Conversion of Existing Units**

The Town should explore tax incentives that would encourage infill in existing neighborhoods with LMI housing, as well as incentives to convert existing market-rate housing into LMI units.

b) **Transfer of Development Rights**

Transfer of development rights (TDR) is a tool that takes development that would occur in one area (sending area) and transfer it to another (receiving area). Typically, the sending area is an area the community wants to preserve or protect, such as floodplain, farmland, natural areas, or one that has historic features. The receiving area is a location that can accommodate increased density because of available public services such as water and/or sewer, or does not contain sensitive environmental resources. As a strategy to develop affordable housing, the Town may consider incentives for the
construction of LMI units in receiving areas, particularly in areas of Town that have the greatest need for LMI housing.

c) **Revolving Loan Program for Residential Improvements**

A revolving loan program can provide financial incentives for existing homeowners to improve their properties in exchange for dedicating housing as LMI units. This approach is a modification of the Town’s prior strategy to develop a tax incentive program for property owners who are willing to rehabilitate and convert existing rental apartment units into protected LMI units. As a revolving program, as funds are paid back, they can be reinvested in the community. The Town may want to target neighborhoods that show the greatest need for LMI housing and require affordability restrictions during the term of the loan.

d) **Regional Coordination**

The Town works cooperatively with the Washington County Community Development Corporation (WCCDC) to address regional affordable housing needs. The WCCDC is non-profit organization that assists in the development and management of affordable housing. This organization is a partner that can assist the Town in building local capacity to meet local demand and can be a tool in implementing prior strategies.

3. **Projecting LMI Unit Production**

Using the a combination of existing strategies to create LMI housing and implementing new approaches, the Town hopes to meet the demand for units that are affordable as well as the state-mandated goal of 10% of its housing dedicated for LMI households. Residential development is close to full buildout, and it is anticipated that an additional 1,004 year-round homes could be built on existing vacant or underutilized lots.\(^{13}\) When or if these homes will be constructed is uncertain. The State and the New England region as a whole have been slow to rebound from the 2008 Economic Recession compared to the rest of the country. The number of building permits issued in Narragansett for residential development that peaked in the early 2000s gradually declined and has been less than 50 per year for the past three years.\(^{14}\) Conservatively, if it is assumed that this rate continues, it will take 20 years for the town to be fully built out, within the planning timeframe of this comprehensive plan. In that light, the additional 1,004 year-round homes are considered when projecting LMI unit needs and meeting the mandated 10% goal.

Therefore, adding the projected new housing units that would be created on vacant and underutilized lots to the number of units reported in the 2010 US Census, the total number of year-round housing units projected at buildout is 8,160. As shown in Table 2, after considering the existing 250 LMI units, the Town needs an additional 566 units to meet the 10% goal.

\(^{13}\) See "Land Use" in Narragansett Comprehensive Plan Baseline Report.

\(^{14}\) See Table 12 in Narragansett Comprehensive Plan Baseline Report.
The distribution of need among these 566 units was calculated in the Narragansett Baseline Report, and also shown in Table 3. A majority of the need is for families (41%), followed by the elderly and other populations with special needs. This latter group includes housing for singles, individuals with special needs and transient housing.

Table 3. Distribution of LMI Unit Needs by Household Type

<table>
<thead>
<tr>
<th>Household Type</th>
<th>Proportional Need Projected</th>
<th>Number of LMI Units Needed at Buildout (816 to meet goal x CHAS %)</th>
<th>Existing Supply</th>
<th>Future Need</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elderly</td>
<td>30%</td>
<td>245</td>
<td>108</td>
<td>137</td>
</tr>
<tr>
<td>Family</td>
<td>41%</td>
<td>335</td>
<td>120</td>
<td>215</td>
</tr>
<tr>
<td>Other</td>
<td>29%</td>
<td>236</td>
<td>22</td>
<td>214</td>
</tr>
<tr>
<td>Total LMI Units</td>
<td></td>
<td><strong>816</strong></td>
<td><strong>250</strong></td>
<td><strong>566</strong></td>
</tr>
</tbody>
</table>

*Source: HUD 2000 CHAS Database, based on Washington County data

Based on these figures, the Town projected LMI unit development using its existing and proposed strategies. Table 4 details the number of units anticipated to be developed by strategy in five-year increments, and it is projected that it will take more than 50 years to meet the 10% goal. There are 109 LMI units currently being developed using the comprehensive permit process and it is anticipated that those units will be constructed within the first five-year timeframe ending in 2020. Overall, it is difficult to project which policies and strategies will gain momentum. Since the Economic Recession in 2008, the housing market did not really start to see improvement until 2012, and continued improvement is slow. Further, housing preferences are changing, and the desire for smaller units may drive certain policies over others in the next decade. Projected units were determined based on very conservative estimates, knowing that during the 10-year update of this plan (2025) numbers and strategies will be revisited. Therefore, the following assumptions were applied:

- No notable new construction will occur after 2035, the projected timeframe in which the Town will reach full buildout; therefore, there will be less dependency on inclusionary zoning and comprehensive permits to produce LMI units.
- It will take several years for the NAHT to build enough funds to purchase land and develop LMI units.
- Developing housing for populations with special needs, such as persons with disabilities, will be incorporated with strategies identified for families as well. Wherever possible, the Rhode Island Developmental Disabilities Council promotes integrated living for persons with disabilities within a community as opposed to separate housing developments. Therefore, units for families are overestimated to accommodate this need.

15 http://www.riddc.org/Syrplan.shtml
### Table 4. Projected Construction of LMI Units by Strategy (2012-2050)

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Accessory Apartment (Rental)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>2015-2020 2020-2025 2025-2030 2030-2035 2035-2040 2040-2045 2045-2050 Total</td>
<td>107</td>
</tr>
<tr>
<td>Inclusionary Zoning (Ownership &amp; Rental)</td>
<td>-</td>
<td>-</td>
<td>0</td>
<td>2015-2020 2020-2025 2025-2030 2030-2035 2035-2040 2040-2045 2045-2050 Total</td>
<td>17</td>
</tr>
<tr>
<td>Unmerged Lots for Multi-Family (Rental)</td>
<td>-</td>
<td>-</td>
<td>0</td>
<td>2015-2020 2020-2025 2025-2030 2030-2035 2035-2040 2040-2045 2045-2050 Total</td>
<td>18</td>
</tr>
<tr>
<td>NAHT Single or Multi-Family (Ownership &amp; Rental)</td>
<td>-</td>
<td>-</td>
<td>0</td>
<td>2015-2020 2020-2025 2025-2030 2030-2035 2035-2040 2040-2045 2045-2050 Total</td>
<td>35</td>
</tr>
<tr>
<td>Accessory Apartments (Rental)</td>
<td>-</td>
<td>-</td>
<td>0</td>
<td>2015-2020 2020-2025 2025-2030 2030-2035 2035-2040 2040-2045 2045-2050 Total</td>
<td>32</td>
</tr>
</tbody>
</table>
F. Goals, Policies and Action Items

Goal H1: Maximize the benefits and minimize the costs of short-term renters without adding undue burdens to year-round residents and municipal resources.

Policy H1.1: Ensure a timely response to concerns related to student renter issues and a cooperative effort to develop resolutions.
   a. Evaluate current communication procedures to reach the public officials that administer municipal programs dealing with nuisances and local code violations. Determine any revisions, as needed, and work with town staff to implement revisions.

Policy H1.2: Reduce the impacts of student renters on the quality of life in local neighborhoods.
   a. Evaluate municipal regulatory and programmatic approaches that are designed to address the impacts of student renters and their effectiveness. Consider new approaches that might include assigning police detail in specific neighborhoods on Friday and/or Saturday nights.
   b. Investigate new ways to use the information in the existing rental property database.
   c. Continue to work with URI representatives to address neighborhood complaints associated with students.
      • Review the URI’s off-campus housing policies and their effectiveness on minimizing neighborhood disturbances. Identify and collaborate on changes as needed.

Policy H1.3: Ensure that seasonal rentals do not unduly strain public services.
   a. Evaluate and document the positive and negative impacts of seasonal rentals (both student rentals from September to May and vacationers from June to August) on public services and facilities. Consider impacts to local public services (such as police, fire and rescue, water, and sewer services) as well as the social and economic impacts to local businesses and year-round residents.
   b. Identify long-term public service and infrastructure needs that may result from seasonal rentals. Determine if these needs can be met through capital improvements or require outside funding resources.

Policy H1.4: Ensure that rental properties meet local and state housing codes to maintain the health, safety, and welfare of occupants.
   a. Increase capacity to routinely inspect rental properties for housing code violations such as overcrowding, illegal parking and property maintenance. Avenues to consider are:
      • Inspect rental properties when complaints are received,
      • Inspect rental properties by neighborhood on a regular schedule, such as annually or biennial, or
      • Inspect rental properties as part of a neighborhood-based approach to code enforcement in areas where violations or complaints occur frequently.
   b. Consider the development of a Code Enforcement Task Force that evaluates progress towards improving living conditions in rental properties. The Task Force should be represented by property owners, landlords, tenants, Public Safety, Building Official, Zoning Official, and URI. The intent is to create a more proactive approach in addressing code enforcement, particularly where resources may be limited at the municipal level. The Task Force could focus on specific code violations that are prevalent in specific neighborhoods.
Policy H1.5: Maximize the benefits of seasonal rentals to the Town.
   a. Develop support from other communities and local legislatures for new state legislation that
      would allow municipalities to collect sales and use tax on seasonal rentals as appropriate.

Goal H2: Protect the unique character of Narragansett’s neighborhoods.

Policy H2.1: Promote high quality, energy-efficient residential design. (See Policy LU2.6)

Policy H2.2: Support residential infill and expansion that is sensitive to its surroundings and does not
   negatively impact a neighborhood’s character. (See Policy LU2.2 and LU2.8)
   a. Conduct architectural surveys of specific older neighborhoods and build on historic surveys
      as needed.
   b. Review and update subdivision regulations to incorporate guidelines that ensure infill is
      compatible to the surrounding neighborhood.

Goal H3: Provide residents with a high quality of life in safe, energy-efficient neighborhoods with
   many mobility options.

Policy H3.1: Ensure that every neighborhood has access to high quality recreational opportunities.
   a. Identify neighborhoods that do not have access to recreation or parks within a quarter mile
      (walking distance). Develop strategies to increase resources or establish links to access.
   b. Review and update subdivision regulations to increase recreation and/or open space.

Policy H3.2: Reduce the impacts to residential areas from neighboring, incompatible uses.
   a. Use the Greenbelt system to buffer residential areas from incompatible uses. (See Policy
      LU2.4)

Policy H3.3: Provide sidewalks in neighborhoods, as appropriate.
   a. Update subdivision regulations to encourage sidewalks in appropriate neighborhoods.
   b. Consider payment in lieu for waivers, where funds are placed in a dedicated “sidewalk fund”
      to be used to construct/repair sidewalks in other areas of town with a need.
   c. Evaluate neighborhoods for sidewalk installation. Prioritize those in close proximity to
      schools. (See Policy T2.2)

Policy H3.4: Ensure that neighborhoods have walking and biking connections to community
   resources such as parks, open spaces, schools, employment centers, and commercial areas as well
   as other adjacent neighborhoods. (See Policy T2.2)
   a. Update subdivision and land development regulations to encourage, where practicable, the
      creation of connections between neighborhoods as well as to commercial areas, schools,
      and recreational and open space resources.
   b. Identify the linkages (or lack of) between existing neighborhoods as well as to commercial
      areas, schools, and recreational and open space resources to identify opportunities for safe
      walking and bike routes.
   c. Apply for funding to build missing links.
Policy H3.5: Build links between neighborhoods and access to public transportation. (See Policy T2.3)
   a. Coordinate with the RIPTA and private transportation services as appropriate to increase accessibility to meet the need.

Policy H3.6: Encourage residents to be more energy efficient.
   a. Partner with local organizations that offer home improvement assistance to increase awareness of these programs to improve energy efficiency of homes.
   b. Consider establishing a municipal revolving loan program to replace heating systems, windows, exterior doors, etc.
   c. Promote state and federal programs that offer tax credits for installing renewable energy technology (solar water heaters, residential-scale wind turbines, etc.) on residential properties.
   d. Evaluate the feasibility of municipal tax credits for installing renewable energy technology (solar water heaters, residential-scale wind turbines, etc.) on residential properties.

Goal H4: Ensure long-term community sustainability by promoting diverse housing opportunities that are equitable and affordable for residents of all ages and incomes.

Policy H4.1: Encourage year-round rentals and homeownership to build a stable, year-round and diverse population.
   a. Evaluate the feasibility of municipal incentives to encourage property owners to rent to year-round tenants.
   b. Review the town’s current tax policy. (See Policy ED2.5)

Policy H4.2: Use regulatory approaches to develop low and moderate-income housing to meet the 10% state mandate.
   a. Revisit the Inclusionary Zoning ordinance to ensure that it is producing desired outcomes. Investigate using density bonuses to promote or allow for the development of affordable housing, except in areas designated by Rhode Island’s Coastal Resource Management Council (CRMC) of critical concern or self-sustaining lands zones.
   b. Revisit the proposed Lot Split Ordinance, which will allow existing “substandard lots of record” to be separated from the adjacent conforming lot if the substandard lot is developed with single family affordable housing.
   c. Consider incentives that would allow some existing affordable rental apartment buildings to be expanded, provided that some of the units are preserved as affordable family units.
   d. Revisit the Accessory Unit ordinance to make it more attractive to property owners.
   e. Evaluate the use of Transfer of Development Rights as a mechanism to create affordable housing.

Policy H4.3: Promote the construction, renovation and conversion of existing housing units as low and moderate-income housing through local programs and incentives.
   a. Draft incentives to promote redesign of older platted subdivisions to a new layout which is more sensitive to environmental constraints as a way to create a new moderate/market priced subdivision opportunities.
   b. Seek funding from state and federal agencies for the construction of LMI housing, particularly as infill.
c. Build reserves in the Affordable Housing Trust Fund and develop programs that actively use the fund as a financial tool to support the development of affordable housing within the Town. Identify partners, such as the NCLT, to assist in program implementation.
d. Develop incentives that encourage property owners to consider rehabilitating and converting their existing rental apartment units into protected affordable housing by:
   • Offering a reduction of property taxes;
   • Offering grant funds/low interest loans to rehabilitate units; and
   • Allowing additional units where it is appropriate.
e. Meet, as needed, with state departments and local organizations to support existing group homes as well as promote the construction and or conversion of new special needs facilities.
f. Investigate town properties that could be appropriate for the construction of affordable housing.
g. Develop strategies to ensure that affordable housing development projects seeking a comprehensive permit through the State Affordable Housing Act have a predictable process and meet local environmental requirements and other community concerns.

Policy H4.4: Support local and regional boards, organizations, and associations in the advocacy and development of low and moderate-income housing in Narragansett.
   a. Establish regular communication with the Narragansett Housing Authority.
   b. Identify ways the Narragansett Affordable Housing Trust can support the construction and rehabilitation of single family homes and multi-family buildings for both homeownership and rental opportunities for families.
   c. Participate in state and regional initiatives to advocate for affordable housing in Narragansett.
   d. Establish a supportive relationship with South County Community Action's Action Community Land Trust.
   e. Collaborate with the Washington County Community Development Corporation in the creation of affordable housing in the region and Narragansett.
   f. Establish supportive relationships with other organizations providing home ownership and rental opportunities for low/moderate income individuals and families.
VIII. HISTORIC, CULTURAL, AND SCENIC RESOURCES

Narragansett began as a seaside tourist destination for both the day-trippers looking to get the healing properties of the ocean air and the seasonal vacationers who built summer cottages to spend extended periods of time. The Town has evolved into a bedroom community, but it still has a strong tourism economy because of its historic and cultural resources that remind of us of its past and its scenic beauty. These features, along with its natural resources, create a sense of place and distinctiveness that make Narragansett unique. Residents are proud of its history and culture, and have worked to protect and enhance these features for enjoyment and education.

Through the public forums, residents discussed formative issues that impact the Town’s ability to protect important historic, cultural, and scenic resources. Many issues revolve around resource identification and protection, awareness, and management. Residents recognize the work the Town has done in protecting important historic and cultural landmarks through designation and delineating districts and are in favor of continuing these efforts. Many of these properties and structures are also important recreation and open space resources, and a comprehensive and integrated approach to management is being proposed. There is also a concern that there is little awareness of the Town’s history and residents believe there are opportunities to increase awareness and education as a way to build support for future initiatives by the town for resource protection and management.

A. Formative Issues

• Local Historic Districts and the National Register – Narragansett has successfully implemented a historic district program which is achieving its goals. The Town will consider expansion of these districts and the addition of new districts.

• Integrating and Connecting Resources – There are many historic sites and/or cultural resources that exist in a somewhat isolated fashion. Strategies to integrate or connect resources with each other or with other amenities such as parks and open space can strengthen their presence in the community.

• Awareness of Resources – Many residents and visitors are not aware of the number and diversity of historic resources in Narragansett. Strategies to increase awareness can increase protection, restoration and maintenance of these resources.

• Management and Administration – Narragansett’s historic and cultural resources can only be maintained if there is a sustainable and diverse model for management and administration.

• Threats to Scenic Vistas – There are many scenic vantage points of the ocean, rivers, ponds and other natural features that contribute to Narragansett’s character. New development, both vertical and horizontal, has the potential to block these views and vistas.

B. Local Historic Districts and the National Register

The Town has five successful historic districts: Sunset Farm, The Towers, Earls Court, Central Street, and Ocean Road. The purpose of these districts is to ensure that renovation and construction within these designated areas is performed in a way that preserves the historic features consistent with that particular district. The Narragansett Historic District Commission (NHDC) is the regulating authority and has worked with many property owners in both the mandatory and volunteer zones of the districts. Based on the success of the program, the NHDC sees future opportunities to expand the districts and develop incentives that would encourage more property owners to improve their properties. The NHDC
acquired Certified Local Government status through the Rhode Island Historical Preservation and Heritage Commission, which provides opportunities to increase local resources for preservation efforts.

The Town continues to make progress in preservation by designating historic homes and structures to the National Register of Historic Places as well as through local and state designation. Many properties still remain unprotected, including the Dunes Club, South Ferry Church, and Camp Varnum, which are eligible for historic designation on the National Register. Acquisition is an additional tool to protect properties, and some may be purchased by the Town in the future, or property owners can be encouraged to donate their property to the Town or dedicate an easement. Further investigations are required to identify available properties.

There are many unique features that may not necessarily be historic, but add to the culture of Narragansett. Examples include the South County Museum, URI’s Narragansett Bay Campus, and Veterans Park. These resources offer venues for arts and cultural programming and exhibits that bring awareness to Narragansett’s community. As the Town works with the organizations that manage these properties, they build relationships for further identification and capacity building opportunities.

C. Integrating and Connecting Resources

Because of Narragansett’s historic and cultural links with the ocean and other scenic vistas, many of its historic and cultural features are linked with natural areas, open space, and recreational activities. Some examples include Fort Greene, the Point Judith Lighthouse and Nulman Park. However, there is still a further need to connect the Narragansett’s historic and cultural resources in a more comprehensive system that will increase access and awareness. Creating an integrated network of open space and recreational resources with historic properties, cultural amenities, and scenic views will provide the Town with an opportunity to have a holistic approach to resource management. This type of planning should be performed in conjunction with other systemic planning issues such as attempts to increase walking and biking networks, as well as the preservation and extension of the Town’s Green Belt (See Land Use, Recreation and Open Space, and Transportation and Circulation).

There are many common tools that can be used to meet the conservation, protection, and management goals for these resources. Some of these include land acquisition or easements, while others can include more innovative partnerships between the Town, residents, business owners and/or neighborhood groups. Regardless of the tools applied, integrating conservation programs can increase available resources as well as ensure that efforts are not duplicated by multiple municipal departments. A more integrated approach is therefore a more efficient approach and can save money for property acquisition, activities and events, or administrative resources where there is a central planning and organizing effort. Combining resources can also lead to opportunities to expand programming throughout the year, which attracts visitors during the winter months and bolsters local businesses during an otherwise quiet period in Town (See Economic Development).

D. Awareness of Resources

Building awareness of the Town’s history and its cultural assets takes as much effort as preservation. Raising awareness increases local pride and acknowledgment by residents that these resources are important to the local quality of life and deserve protection. For example, residents take great pride in the seawall along Ocean Road between the Narragansett Town Beach and South Pier Road. During decent weather and any time of day, you will find people of all ages walking along the wall, sitting and watching the surf, or biking through the area. It is a cultural centerpiece with The Towers, Town Beach,
and Casino Park that attracts locals as well as visitors. Protecting the seawall and the views and connections it provides are important to the quality of life in Narragansett. By increasing local awareness of historic and cultural resources, the Town can build support for future preservation efforts that may require allocation of municipal fund or other resources. Local awareness also lends support for moving local preservation policies into the forefront.

The Town also has an opportunity to showcase these resources to the region and those planning to visit Narragansett. Linking historic and cultural resources with the Town’s main attraction – its recreation and natural resources – can increase visibility. Using historic and cultural resources as an economic driver allows the Town to expand its partners in promoting preservation and provide a diverse range of activities for a variety of interests. (See Economic Development).

E. Management and Administration

The management and administration of historic, cultural and scenic resources involves both public and private entities. Within historic districts, private property owners are responsible for ensuring that the historic integrity of their property remains intact by following the guidance of the NHDC as empowered by the local zoning ordinance. Resources, including tax credits or low-interest loans, can be made available to property owners as incentives to maintain or improve their properties. The Town can partner with property owners through the use of the House Doctor Consultant (HDC) program, where the Town provides expert consultation on techniques to maintain or enhance the historic character of structures within the local historic districts. Private organizations, such as the Narragansett Historical Society, are also active in historic property management and protection. Looking for opportunities to increase their resources to meet objectives can be to the Town’s advantage in preserving significant structures. Communication and, where appropriate, the sharing of resources will be critical for maintaining an efficient system for management and administration.

F. Threats to Scenic Vistas

The views and vistas from Narragansett roadways, parks, and open spaces are unlike those from any other community in Rhode Island. The many vantage points to the ocean, rivers, ponds, fields, farms, historic landmarks, and unique shoreline features draw visitors throughout the summer and serve as significant contributor to the local economy. Beyond the seasonal economy, scenic vistas in Narragansett are part of the year-round identity for residents and provide a unique backdrop to the high quality of life in town.

Threats to the scenic vistas that are such a big part of Narragansett’s identity can come in many forms. In some cases, threats are small and incremental. As an example, the development of large homes in areas where the historic development pattern is dominated by small cottages can block views that have existed for other residents over many decades. It is important to note that, in these instances, local regulations enable the development of these homes and their construction is an exercise of the property rights associated with these parcels. The possibility of an increase in development restrictions for these areas would need to be considered carefully by residents and officials moving forward. In other cases, threats to scenic resources can be large and dramatic. Changes in global and local climate over the past decades suggest that the frequency and severity of coastal storms will continue to increase. The destruction caused by storms like Hurricane Sandy is a clear example of how factors outside of the Town’s control can have an enormous impact on the ability to maintain scenic resources.
Narragansett will need to consider tools for protecting scenic vistas that address the full range of threats. A number of regulatory and/or planning tools can be explored, in cases where the town can potentially control the unintentional impacts of development. For example, scenic roadway designation through the Rhode Island Department of Transportation’s Scenic Roadway Program can help give the town the leverage it needs to protect important views (See Transportation and Circulation). Local regulatory mechanisms, such as overlay districts, and incentive programs for private property owners to protect views across their properties are other alternatives that should be evaluated (See Land Use). With regard to the impacts of severe storms, the Town can continue to utilize state of the art hazard mitigation response mechanisms to fund and repair damages from these events (See Natural Hazards).

G. Goals, Policies and Action Items

Goal HCS1: Protect the local historic and cultural resources to retain the Town’s sense of place and distinctive character.

Policy HCS1.1: Use local regulatory mechanisms to protect and enhance local historic and cultural resources.
   a. Determine the expansion of regulated areas of historic district zones following appropriate research and identification of historic properties.
   b. Modify the Town’s zoning and subdivision regulations to promote preservation and enhancement of historic and cultural resources.
      • Modify the setback requirements within designated historic districts to more closely resemble the setback line of existing historic buildings.
      • Consider variable lot width and size zoning as an alternative to uniform lot frontages. This would vary the regularity of yard widths, setbacks, and lot sizes to break up frontage lot development patterns along rural roads and new subdivision roads.
      • Include specific language in permit standards, site plan review criteria and environmental impact statement requirements regarding information needed and design requirements for avoidance of impacts to historic resources, archaeological areas and districts.
      • Modify subdivision regulations to encourage preservation of historic resources including appropriate site planning to preserve the integrity of estate buildings, farm buildings, archaeological sites, and their settings. Require cluster-type land development for large National Register eligible locations, archaeological sites or listed properties proposed for subdivision. Require that stone walls and other landscape features, either built or natural, be preserved and protected.
   c. Require placement of utilities underground for all state and municipal projects in areas that have been designated as historic or special districts and in designated scenic areas and areas with significant views.
   d. Evaluate the use of transfer of development rights (TDR) and other regulatory mechanisms or incentives to provide alternatives to the subdivision development of large historic estates and farms.
   e. Develop a stone wall protective ordinance.

Policy HCS1.2: Designate and, where appropriate, acquire important historic and cultural resources and plan for their protection.
   a. Nominate additional historic resources to the State and National Registers of Historic Places.
b. Designate new historic districts for local historical district zoning which are comprised of the listed and eligible National Register resources and appropriate local resources which form a cohesive historic area.

c. Develop and implement a public facility management plan which includes town-owned historic resources and provides for the preservation of these resources.

Policy HCS1.3: Support government agency and non-governmental organization programs that protect historic and scenic resources.

a. Participate on the RI Advisory Commission on Historical Cemeteries to advocate the preservation of historical cemeteries.

b. Support the Narragansett Historical Society, the South County Museum and other not-for-profit organizations wishing to promote historic preservation activities.

Policy HCS1.4: Encourage private property owners to maintain the historic qualities of their properties.

a. Investigate property tax incentives for the certified rehabilitation of designated historic properties (e.g. State historic preservation tax credit and/or local property tax waivers).

b. Promote a town-sponsored program for the purchase of historic facade easements which makes use of grant assistance from federal, state and foundation sources.
   • Promote a voluntary easement donation program first, then expand to easement purchase when funding allows.

c. Promote a local revolving loan fund for certified rehabilitations of historic structures in cooperation with neighboring towns.

Goal HCS2: Promote the sustainable use of historic and cultural resources to increase awareness and access.

Policy HCS2.1: Combine economic development initiatives with historic preservation and open space-recreation initiatives. (See Policy ED1.2)

a. Develop events and programs that highlight Narragansett’s historic resources and draw visitors to the area, particularly during the “off season.”

Policy HCS2.2: Increase access to and awareness of historic and cultural resources while still protecting their integrity and cultural significance.

a. Consider publishing educational and promotional materials which describe Narragansett’s historic and scenic resources.
   • A guide on successful historic rehabilitation design in Narragansett.


Goal HCS3: Enhance and protect the Town’s unique scenic views and vistas.

Policy HCS3.1: Maintain the scenic qualities of Narragansett through municipal programs.

a. Acquire property by purchase or donation through active participation of the Narragansett Land Conservancy Trust.

b. Identify scenic overlay districts or scenic resource zones that could protect important landscapes and structures that create distinctive views.
c. Designate scenic roads for protection from insensitive upgrade plans.
   • Develop a process to review town submissions under the State Division of Planning’s Transportation Improvement Program (TIP) for scenic roads such that design standards are set early in the planning stages and based upon analysis of character-defining features of each road. The following roads, or portions thereof, should be considered among others for designation as scenic roads:
     • Point Judith Escape Road
     • Ocean Road
     • Point Judith Lighthouse Road
     • South Ferry Road
     • Old Boston Neck Road, North Road
     • Scenic 1A
     • Gibson Avenue
     • Route 1
   • Adopt regulations for alterations and construction along scenic roads to preserve character, including trees, stone walls, landscaping, culverts, and driveways.

Policy HCS3.2: Encourage private property owners to maintain the scenic views across their properties.
   a. Promote the use of scenic and open space easements.
   b. Promote a voluntary easement donation program first, then expand to easement purchase when funding allows.
IX. NATURAL RESOURCES

Taking a sustainable approach to natural resource management considers not only environmental quality issues, but also the social and economic roles these resources play in the community. Thriving natural resources serve a variety of functions that provide a community with many benefits. They offer aesthetic benefits, recreational opportunities, and ecological diversity. A healthy natural environment provides clean water, good air quality, and productive soils. It can also contribute to the local economy and absorb damaging impacts that storms and flooding may have on the built environment. Managing natural resources through the lens of sustainability also ensures that the integrity of resources are maintained and improved for future generations.

Participants at the Comprehensive Plan public workshop held on September 13, 2012 were asked to prioritize general areas of concern for the three Planning Districts. Natural resources were identified as important features that require attention in all districts. Many felt that resources were stressed from over-use and needed better management to ensure their protection and long-term sustainability. On the other hand, there was also the opinion that access to some resources should be improved in an environmentally responsible way that allows residents to enjoy and appreciate all the natural features that the Town is fortunate to have.

A. Formative Issues

• Protecting and Enhancing Environmental Quality – Narragansett is home to some of the most complex, fragile and important resources in the state, which are centered on its water resources. Maintaining surface water quality is not only important to protect wildlife habitat, but also to support the local economy (e.g., fishing industry, recreational boating, and swimming) as well as to every day quality of life for residents.

• Supporting the Local Economy – Narragansett’s local economy depends in large part on the influx of money from regional tourism. Tourism places stress on natural resources and the benefits of tourism need to be balanced with the capacity of different resources to withstand certain levels of use. Aquaculture operations represent a viable economic venture in the community, but operations will need to be well-managed in Point Judith Pond to protect the resource. On a much broader and more forward-looking level, migration of beaches needs to be better understood in order to anticipate economic and environmental impacts.

• Natural Hazards and Climate Change – Sea level rise and the increased intensity and number of severe storms due to climate change are anticipated to impact existing natural resources, such as wetlands and coastal features. Because this issue affects Narragansett more than most other Rhode Island communities, policies are required to anticipate the needs of the community moving forward.

• Opportunities for Partnerships – Environmental resources affect everyone, and many organizations and individuals have a strong stake in maintaining the well-being of Narragansett’s resources. The Town will need to be resourceful and strategic in creating partnerships to further these interests.

B. Protecting and Enhancing Environmental Quality

Environmental quality of the Town’s natural resources needs to be protected and enhanced, wherever and whenever possible. The natural resources discussed in this chapter are found on both public and private properties.
1. Impacts from Development and Land Use Activities

One contributor to the loss and degradation of natural systems is development and associated land use activities. If unplanned and unmonitored, development and redevelopment activities can result in loss of existing habitats. Land use activities can include construction and daily operations of industrial and commercial areas, and residential areas. Land use activities also include diverse recreational uses. The Town’s natural resources, including water bodies, are popular places for hiking, boating, and swimming (see Recreation and Open Space).

The Town uses its Zoning Ordinances and Subdivision Regulations to manage where development occurs, how it occurs, and where different activities can take place (see Land Use). The purpose of the Environmental Overlay Zones (Narragansett Zoning Ordinance, Chapter 4) is to protect environmentally sensitive areas, such as floodplains, coastal wetlands and features, inland wetlands, and areas with high water tables, from impacts of land use activities. Periodic review of these regulations and updates ensure that their purpose is being met, and natural resources are not being compromised.

The Town also administers several programs that are designed to protect and enhance the natural environment, including wastewater management. These programs are discussed in Community Services and Facilities, and should be considered in decision-making processes regarding natural resource protection.

2. Impacts from Non-Point Source Pollution

Policies that address non-point source pollutants (stormwater that runs off the land) guide decisions about land use activities to protect local surface water resources. Runoff from developed areas can carry pollutants into nearby water bodies and impacts their water quality. Water quality influences the productivity of local ponds and wetlands, which are the nurseries for the fisheries that sustain the commercial and sport fishery industries out of Galilee.

According to the Rhode Island Department of Environmental Management (RIDEM), Narragansett’s water bodies are being impacted by non-point source pollutants as well as land use practices within their watersheds. Those of critical concern are Point Judith Pond and Narrow River.

*Point Judith Pond:* Point Judith Pond is a shared resource between the towns of Narragansett and South Kingstown. The pond and its surrounding environment support residential uses as well as recreational and commercial businesses. Its wetlands are nurseries for important fisheries that support commercial fishing at Galilee and sport fishing off the coast. There are also aquaculture facilities in the pond as well as recreational boating and private docks. Along the shores and on the small islands within the pond are land uses that also impact water quality through runoff or direct discharges. Balancing uses is important to protecting water quality and addressing them requires a comprehensive approach that minimizes impacts without compromising the use of Point Judith Pond as a vital recreational and commercial resource.

At the state level, the Rhode Island Coastal Resources Management Council (CRMC) adopted the Salt Pond Region Special Area Management Plan (SAMP) in 1999. The SAMP recognizes the water quality issues in Point Judith Pond as part of the salt ponds region and notes that evidence shows degradation occurring as a result of existing residential sources of nitrogen and bacteria. The SAMP classifies lands impacting the water quality of the salt ponds and dictates policies and recommendations for land development. Guiding these policies and recommendations is a Land...
Use Classification Map in the SAMP (Map 11). The map identifies most land in Narragansett abutting and in the vicinity of Point Judith Pond as either “Lands of Critical Concern” or “Developed Beyond Carrying Capacity.” Lands of Critical Concern are adjacent to sensitive habitats and are either undeveloped or developed at densities not exceeding one residential unit per 120,000 square feet. Lands that are Developed Beyond Carrying Capacity are developed at densities of one residential or commercial unit on parcels of less than 80,000 square feet, and frequently at higher densities of 10,000 square feet or 20,000 square feet per unit. Unless mitigated, this type of development results in higher nutrient loading and contaminated runoff. These classifications influence land use decisions made by the town (also see Land Use).

In 2006 RIDEM listed Point Judith Pond, including the upper pond, Billington Cove, Champlin Cove, and the Lower Saugatucket River, as an impaired water body (303(d) List) because the waters did not support their designated uses, including shellfish harvesting and primary recreation, due to fecal coliform bacteria. RIDEM developed a total maximum daily load (TMDL) plan in 2008 to restore water quality. The plan noted that significant water quality improvements would result from implementation of recommendations to the Saugatucket River. Working with the Town of South Kingstown and the State, Narragansett will support RIDEM and their efforts to improve water quality.

Narrow River: The water quality of Narrow River is impacted by stormwater runoff from adjacent neighborhoods. The Rhode Island Coastal Resources Management Council (CRMC) adopted the Narrow River SAMP (1999) and promotes an ecosystem-based management approach to the Narrow River estuarine complex. It calls for a cooperative effort on behalf of RIDEM, CRMC, and the watershed towns to determine the impacts of stormwater runoff on the river, design mitigation, and upgrade existing direct stormwater outfalls. In 1992, the towns of Narragansett, North Kingstown, and South Kingstown, in cooperation with RIDEM, CRMC, and the Narrow River Preservation Association, completed a study and determined that “significant loads of nitrogen were coming into the River through stream flow and groundwater seepage in dry weather conditions, as well as from the expected stormwater flow during wet weather conditions.”

According to the study, the main source of fecal coliform into the river was from stormwater outfalls in Narragansett. Since then, the Town has implemented best management practices (BMPs) to reduce pollutants into the river, particularly on Wampum Road, Conanicus Road, Mettatuxet Road, Montauk Road, and in the Edgewater neighborhood. Property owners are encouraged to implement small-scale BMPs, including the use of rain gardens and rain barrels, to reduce stormwater runoff from their properties.

Poor flushing has contributed to Narrow River’s sensitivity to non-point source pollutants. Other avenues the town can pursue to improve water quality in Narrow River include methods to improve flushing.

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Map 11. CRMC Water Use Classifications
Management of non-point source pollution is done at the state level through permitting programs of CRMC and RIDEM as well as at the local level through municipal ordinances and programs. In 2010, RIDEM and CRMC jointly reissued the *Rhode Island Stormwater Design and Installation Standards Manual* (2010 Stormwater Manual). These agencies recognize that effective management of stormwater needs to address both the quantity of runoff as well as the quality. The manual requires the use of, to the maximum extent practicable (as defined), low-impact design (LID) techniques as the primary method to control stormwater runoff from new development, redevelopment and infill. Instead of altering a site to accommodate structural stormwater BMPs, LID uses the natural systems and terrain of a site to manage and treat stormwater. The manual provides guidance for planning, designing, and implementing these types of stormwater BMPs.

Through Section 7.7, Supplemental Drainage Requirements, of the Zoning Ordinance, the Town requires development projects to meet local and state stormwater requirements. The ordinance should be updated to reference the 2010 Stormwater Manual. Additionally, the Subdivision and Land Development Regulations should promote LID techniques, and be updated to reference the 2010 Stormwater Manual and reflect its requirements.

The Narrow River Preservation Association along with the Salt Pond’s Coalition and URI Watershed Watch conduct extensive monitoring of water quality in the Narrow River and Point Judith Pond providing extensive data on nutrient loading, bacteria, dissolved oxygen, and other variables key to assessing non-point pollution and evaluating stormwater management projects and other remediation efforts. The Town should seek out assistance from the Narrow River Preservation Association and other conservation-focused organizations to assist in studying its major waterbodies and advocating for their protection.

The Town also implements the requirements of its Phase II Stormwater Permit. The U.S. Environmental Protection Agency’s Stormwater Phase II Rule establishes a municipal separate storm sewer system (MS4) program to reduce pollutants that are discharged into the Nation’s waterways from these systems during storm events. The MS4 program was implemented in two phases. Phase I required operators of “medium” and “large” MS4s (systems serving urbanized areas with populations of 100,000 or more) to obtain a permit as a means to implement a stormwater management program to control pollutants discharged from the MS4. Phase II extended the coverage to “small” MS4s. Narragansett obtained its permit in 2013, and as part of that permit, drafted a Stormwater Pollutant Prevention Program Plan (SWPPP) that outlines how it will implement its stormwater program. More discussion about the Town’s MS4 Permit and SWPPP and their implementation is provided in *Community Services and Facilities*.

## C. Supporting the Local Economy

The Town’s natural resources support the local economy through their recreational, tourism, agricultural and aquacultural uses. This makes them vital to the survival of local businesses and the diverse sectors they represent. The Town supports the sustainable use of natural resources for local industries such as commercial and recreational fishing, tourism, and agriculture. For more discussion on other ways the Town supports local businesses, see *Economic Development*.

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1. Commercial Fishing

As the 4th largest fishing port in New England, the commercial fishing industry based in Galilee is dependent on the environmental quality of the region’s coastal features and water bodies. Local water bodies, such as Point Judith Pond and Narrow River, and their associated wetlands, are nursing grounds for finfish and shellfish that support this sector. As discussed above, protecting these features from development and land use activities, including management of non-point source pollutants, will improve their environmental quality.

The 2007 Narragansett Harbor Management Plan (HMP) is a tool for the Town to protect these resources. It lays out a framework for the management of the Town’s harbors and coastal water bodies to balance diverse uses and provide public access. While the Comprehensive Plan recognizes all the objectives of the HMP, the following HMP objectives relate specifically to environmental protection and enhancement of environmental quality that support commercial fishing:

- Safeguard and improve the water quality of the harbors and coastal waters to ensure their continued use for safe public contact recreation, recreational and commercial fishing activities and boating.
- Gain the proper balance between the preservation of the living resources of the harbors and the diversity and intensity of activities they support.
- Recognize the importance, historically and economically, of the local fin and shell fisheries, and take appropriate measures to prevent encroachment or impairment of these resources.
- Support the request for Point Judith Pond and the Pettaquamscutt River (Narrow River) to be added to the ISDA Coastal Pond Critical Resource Area, and advocate that these water bodies be added to the State’s request for a federally designated No-Discharge Zone. All RI marine waters were declared no discharge in August of 1998.
- Support intergovernmental cooperation and coordination to enhance protection of the coastal resources and water bodies of Narragansett. Participation from municipal boards of the bordering towns, CRMC, and DEM would improve the promotion of these necessary protection efforts.

The Harbor Management Commission is currently drafting an update of the HMP in conjunction with local policy and decision makers to ensure that resources remain protected. Of interest is the growing shellfish farming industry in Point Judith Pond and its potential impact on water quality.

2. Tourism

The Town’s natural resources not only make Narragansett a desirable place to live, but they also attract visitors, particularly those who want to be outdoors to experience nature and its scenic beauty. Beaches, waterways, and access to the shore are all drivers for the local tourism economy. These resources provide opportunities for diverse active and passive activities, such as sunbathing, hiking, kayaking, canoeing, photography, sailing, bird watching, and recreational fishing.

It is the Town’s policy to promote the sustainable use of its natural resources to support its tourism economy. For resources within public lands, management and accessibility is addressed under Recreation and Open Space. Critical are the Town Beach and its dune system. The Town Beach is a major resource made up of the beach front, the dunes, the tidal ponds, the buildings, parking areas and bordering roadway. Long-term reclamation strategies to address beach erosion and sea level rise will be further discussed under Natural Hazards. Strategies include a beach replenishment program and the
evaluation of feasible alternatives to maintain the beach, considering, among others, sand sources, timeframes and costs.

The economic benefits of protecting resources on private lands can appear limited, but ecosystems are all interconnected and pollution does not stop at a property line. While enforcing existing environmental protection regulations for private development and activities, the Town must also recognize its potential to support resource-dependent local economic activities.

3. Agriculture

Important agricultural soils are limited in Narragansett, but those that exist are important for the current farming activities. Additionally, abandoned agricultural fields serve as habitat for certain bird species that use these areas for nesting grounds and migration resting stops. It should be noted that prime agricultural soils in Narragansett are primarily found in areas with high water tables which have limited development potential because of the need for onsite wastewater management systems. Existing, active farms are Sunset Farm and Canonchet Farm, both small scale operations owned by the Town of Narragansett. For more information about the role of agriculture in Narragansett, see Economic Development and Recreation and Open Space.

Through the Subdivision and Land Development Regulations, the Town can require the identification of agricultural soils on a parcel being submitted for development. This will allow Town Staff to evaluate their significance as it relates to agricultural activities in Narragansett and advocate for their protection, as appropriate.

D. Natural Hazards and Climate Change

One of the important benefits of natural systems is minimizing the impacts of severe storms with high winds and rain (e.g., hurricanes, “Nor’easter”), particularly in coastal areas. Coastal features such as dune systems and wetland complexes absorb wind and water associated with storm surges and provide flood protection. The fact cannot be overemphasized that Narragansett is a coastal community and will experience some level of impact by severe storms community-wide. Some identifiable areas in Narragansett are vulnerable to storm surges and winds from coastal storms than others. These areas include low-lying properties on the immediate coast and those along Boston Neck Road, Sand Hill Cove, Salt Pond, Narrow River, Wesquage Pond and Ocean Road. Recent evidence of this vulnerability was the evidenced by damage to private property and public infrastructure during the record-breaking floods of March 2010, Hurricane Irene, and Hurricane Sandy. The Town’s Beach Sustainability Committee has undertaken an effort to study the impacts of storms and tides on the Town Beach facility. The Town should welcome and consider data studies and information from all sources that address these Natural Hazards See Natural Hazards for more discussion on vulnerable areas and related policies.

Coastal areas in Narragansett are also vulnerable to sea level rise. Over time, as the coastline changes, natural systems will also change and migrate, and in some cases, they will be lost. The issues that arise from these changes and the Town’s policies around them are also found in Natural Hazards.

E. Opportunities for Partnerships

Partnerships with neighboring communities, federal and state government agencies and non-governmental organizations can further the Town’s efforts in protecting and enhancing natural resources. There are many ways to work together, including chances to pool funding, coordinate volunteers, and hold special events to promote the importance of a healthy natural environment.
The Narragansett Land Conservancy Trust is a local governmental body working to protect open space, farm land, scenic vistas, wetlands and other critical habitats in an effort to preserve land for future public recreational and educational use and maintain access to coastal waters. They are an important group in coordinating efforts between the Town and its partners.

In the region, Narragansett is involved in collaborative efforts with North Kingstown and South Kingstown in addressing water quality issues in Narrow River. Equally, it works with South Kingstown to improve water quality in Point Judith Pond. Additionally, because the Town does not have its own potable water supply, but purchases water from both North Kingstown and South Kingstown, Narragansett works with these communities to protect groundwater resources that serve as drinking water supplies (also see Community Services and Facilities).

At the state level, RIDEM and CRMC also collaborate in meeting water quality standards. As previously mentioned, CRMC’s regional management policies in the Salt Pond and Narrow River SAMPs provide additional oversight to guide activities within these coastal areas. These relationships are important in leveraging technical resources and expertise. RIDEM and federal agencies are also involved in acquiring open space to protect natural resources (also see Open Space and Recreation).

Additional partnerships with non-governmental organizations are also needed to expand local knowledge and involve the community. These include but are not limited to several larger non-profits such as The Narrow River Preservation Association, The Nature Conservancy, and Audubon Society of Rhode Island as well as local community groups like the Friends of Canonchet. All of these organizations play an important role in meeting demands to provide financial resources not only to acquire properties, but also to participate in maintenance and programming activities.

F. Goals, Policies and Action Items

Goal NR1: Protect and enhance the environmental quality of the Town’s natural resources.

Policy NR 1.1: Ensure that natural resources are protected from impacts associated with development. (See Policy LU2.3)
   a. Provide economic incentives for owners not to develop, or limit development, in areas of critical environmental concern.
   b. Link Narragansett Land Conservancy Trust, RIDEM, and other conservation organizations with private property owners for acquisition of easements, fee simple donation, etc.

Policy NR 1.2: Support federal, state, and local agencies as well as non-governmental organizations in protecting natural resources.
   a. Work with CRMC in monitoring coastal activities in and on Point Judith Pond and in the implementation of the Salt Pond SAMP.

19 [http://www.crmc.ri.gov/samps.html](http://www.crmc.ri.gov/samps.html)
Policy NR 1.3: Protect water resources and mitigate impacts from non-point sources of pollution. (See Goal CSF10)
   a. Investigate methods to improve flushing in Narrow River.
   b. Work with the Town of South Kingstown to support RIDEM in addressing the impacts of upstream contributions of non-point source pollution on Point Judith Pond.
   c. Integrate stormwater management techniques and regulations identified in RIDEM’s Stormwater Design Manual, as appropriate for Narragansett.
   d. Where socially and economically feasible, use natural systems (e.g. “green infrastructure”) to treat stormwater runoff
   e. Play an active role with North Kingstown and South Kingstown in their efforts to protect groundwater resources that serve as drinking water supplies.
   f. Review water quality data developed each year by all sources available including but not limited to the Salt Ponds Coalition, Narrow River Preservation Association and the URI Watershed Watch.

Goal NR2: Ensure that the Town’s natural resources contribute to the local quality of life.

Policy NR 2.1: Ensure that residents and visitors share access to natural resources, where appropriate. (See Policy ROS1.2)
   a. Integrate public access into management plans of public lands, as appropriate.

Goal NR3: Promote sustainable use of natural resources to support the local economy.

Policy NR3.1: Ensure the protection of natural resources while maintaining their accessibility for economic activities.
   a. Implement the Harbor Management Plan and update it periodically, but always within 10 years of any prior update, with new data, management techniques, and available technical and financial resources.
   b. Develop short term approaches to reestablish and protect coastal dunes.
   c. Continue to evaluate and establish long-term reclamation strategies to address the impacts of erosion and sea level rise on the Town Beach. Pursue funding and resources to help implement feasible strategies.
   d. Initiate a plan to cooperate and work with the State to establish long term resiliency plan for Boston Neck Road.
   e. Monitor the beach profile for continued sand replenishment, consider a plan for dune replenishment, and consider new materials, such as pervious asphalt, for the parking lot surfaces.
   f. Analyze the impact that sea level rise may have on the need to elevate Town beach structures.
   g. Coordinate with the State to ensure adequate maintenance of the Seawall and Boston Neck Road.
   h. Coordinate with state and federal sources to pursue dredging of the mouth of Narrow River and consider acceptability of the sand for beach replenishment.
X. RECREATION AND OPEN SPACE

Parks and open space provide opportunities for people to be active, socialize with neighbors, and interact with nature. In Narragansett recreation and open space resources are unique and diverse. They include farms, forests, beaches, hiking trails, and deep-sea fishing (See Map 12). They contribute greatly to the quality of life of Narragansett residents and play a significant role in the Town’s tourism industry. The Town needs to think about how these resources connect to existing and future residential areas as well as how to provide and maintain high-quality facilities (see Housing and Neighborhoods and Community Services and Facilities).

Public recreational resources also attract visitors who support local businesses and contribute to the enjoyment of historic and cultural resources. New opportunities to expand the typical “summer season” with year-round investments and attractions can not only boost outside money spent in town, but residents can also benefit from the new activities (see Historic, Cultural and Scenic Resources and Economy).

A. Formative Issues

- **Changing Demographics**: The types of recreation and open space resources and programming offered through the Town need to meet demands of the Town’s aging population.
- **Increasing Resources and Access**: Residents support the acquisition of properties for open space and recreation. Access to many of the Town’s recreational resources have been improved and programming is reviewed each year for new program initiatives for all age groups.
- **Linking to the Economy**: The Town’s recreation and open space resources are the core of its seasonal economy.
- **Managing Resources**: Property management of municipal open space and recreational resources is a constant challenge. Maintenance partnerships with the public and community groups enhance maintenance of recreational sites.

B. Changing Demographics

As the Town plans for recreation and open space, it must consider the needs of current residents and anticipate the needs of future residents over the next 20 years. The Town’s demographic trends analysis (see Baseline Report) indicates that the average age in Narragansett was 40 in 2010, and in the last 10 years, the number of school-aged children declined while the proportion of residents over the age of 50 increased. As the Town works towards building an economically and social diverse community, meeting the future recreation and open space needs of Narragansett residents will be two-fold.

First, the Baby Boomers make up a significant portion of the Town’s population and as they enter retirement, recreational programming will need to adapt. The Town’s recreation survey indicated that residents were looking for more programs and activities for residents over the age of 60. Nationally, the majority of Baby Boomers do not intend on moving to a new geographic area when they retire, but are interested in downsizing, and expect to maintain a part-time job or even start a new career. Some may be impacted by the recent economic recession, and continuing to work may not be a choice. Baby Boomers are also expected to live longer and lead healthier and more active lifestyles than their parents. These residents are interested in diverse recreational opportunities, travel, culture, and
Map 12. Protected Open Space, Outdoor Recreation, and Farm, Forest, and Open Space Program

(See Maps 18 through 20 in the Baseline Report for more detailed information on these resources.)
technology. Programming needs to accommodate a variety of interests and scheduling constraints of the new “working” retiree.

Second, while population trends show that young families are leaving Narragansett, the Town’s housing policies include a focus on bringing them back (See Housing and Neighborhoods). The Town needs to link housing with recreation and open space resources, particularly playgrounds, ball fields, bike paths, and other facilities that support families.

As the Town moves forward in planning for recreational and open space resources, creating opportunities for multi-generational facilities can help meet many needs. While programming for seniors might be specific to that age group, there is great interest by seniors to have these activities integrated with other programming. Integration promotes interaction between age groups, sharing of experiences and increased quality of life. This requires new ideas for better and more efficient transportation infrastructure making travel and access to travel easier.

C. Increasing Resources and Access

There are some recreational needs not being met in the community, and increasing the number of available resources or improved access to existing resources can meet these needs. A discussion of unmet needs is provided in the Baseline Report. The Town will continue to seek opportunities to acquire properties or conservation easements through regulatory and programmatic approaches. Properties can be for the creation of developed recreational facilities (ball fields, courts, etc.) or open space to meet conservation needs (See also Natural Resources). The Narragansett Land Conservancy Trust is the municipal agency that leads land acquisition efforts. By promoting land and resource dedication in the local subdivision and land development regulations, recreational demands that will be added by new development and redevelopment projects can be proportionally increased. Design of new development and redevelopment should be performed in a way that new recreational facilities and/or open space resources are integrated with other resources on neighboring properties to create an integrated, greenbelt system town-wide. Tools such as cluster design or the Planned Residential District can be used (see Land Use).

Increasing access to parks and other recreational resources on the neighborhood level is important to maintain a high quality of life for residents. Most the Town-owned recreation facilities are located in the Central Area of Town. The North End, which has a high concentration of families and children, could benefit from additional resources and improved access to those that do exist. While there are significant recreational facilities located at Christofaro Park and some additional facilities in the Mettatuxet and Bonnet Shores neighborhoods, any significant future residential developments should be encouraged to include new recreational development. Formalized connections by walking paths and bike routes between residential areas and parks create safe environments and promote healthier, active lifestyles (See Transportation and Circulation). Coordination with neighborhood groups can build consensus around location and types of equipment or facilities that are in highest demand.

Being a coastal community, access to the shore is assumed to be part of everyday life, and the opportunities in Narragansett are diverse. There are opportunities to swim, boat, hike, fish, and observe. Conditions and level of accessibility will vary from one area to another, depending on size, environmental features, and safety. Some public access points owned and operated by the Town or the State, such as beaches and parks, are maintained through existing governmental programs and funding. Other sites, however, are not, such as the Narrow River access points adjacent to the Sprague Bridge,
and several roadway right-of-ways that terminate at the rocky shoreline off Ocean Road. The Narragansett Conservation Commission, through its Adopt-A-Spot Program, works with volunteers to enhance and maintain sites. As a way to make the most of limited resources, the Town should develop a ranking system of public access points in need of improvement. Additionally, the Town should establish a policy for signing these areas to educate the public to their potential safety hazards, particularly at Newton Avenue, Hazard Avenue and Bass Rock Road.

Acquiring new properties can be challenging with limited budgets. The Town, along with the Narragansett Land Conservancy Trust, can identify potential funding sources to obtain municipal money. There are diverse recreational and open space resources in Narragansett on state properties as well, and the Town should actively involve itself with any type of development, establishing a protocol for an annual meeting, discussion or planning with regard to these assets. The Town must seek a venue and process to be cooperative with the State in developing recreational opportunities (and any opportunity) for residents. State and federal properties may also become available for purchase, and the Town should encourage all other governmental entities to favor local acquisition. Properties that are of interest to the Town are the Port of Galilee, Camp Varnum, URI Bay Campus, the Point Judith Lighthouse, Rose Nulman Park, Fort Greene, and Camp Cronin, which is owned by the City of Providence.

Residents are also looking for year-round recreational opportunities, indoors or outdoors. The Town does not have many indoor facilities, but the Recreational Building at the Camp is the capital priority project for the Parks and Recreation Department. When completed, it can provide indoor recreational opportunities. The Community Center is small and primarily functions as a senior center during the day and provides meeting and rental space for private and nonprofit functions on week nights and weekends. A separate indoor gymnasium (to supplement those located in three schools) is a large expense, but should be considered. Coordination with neighboring communities may be one way to meet a regional need. Outdoor opportunities during the non-summer months could include a skating rink.

D. Linking with the Economy

The Town’s public beaches, waterways, and parks bring visitors to the area and are therefore critical to the local tourism economy (See Economic Development). The Town provides a variety of outdoor experiences that can also be linked to its historic and cultural resources. When planning and developing management plans for these resources, Narragansett must take a sustainable approach and consider how these resources are accessed and used and integrate the concept of geotourism, visiting a place to enhance or sustain its environment, aesthetics, culture, heritage and well-being of its residents. The Rhode Island Geotourism Collaborative focuses on sustaining the places and experiences in Rhode Island that make it unique and give it a sense of place, such as recreation, open spaces, and historic and cultural features. The Town should utilize this resource and others like it to plan how its present and future recreation and open space resources can support geotourism in Narragansett.

In Narragansett, its distinctive recreation and open space features and properties, such as the Town Beach, Narrow River, The Towers, and Canonchet Farms, must be maintained to ensure that visitor demands are being met, but also to ensure that facilities are not overburdened and they can be enjoyed by future generations. These facilities, especially the Town Beach, are central to our summer tourist

20 http://www.visitrhodeisland.com/geotourism/what-is-geotourism/
economy. Capacity of local resources to support activities must be sustained in an economically and environmentally sound way and access is equitable. Integrating economic development into existing management plans is one way to ensure that resources are managed properly, but also to promote their use to the public and increase accessibility. The Town Beach Enterprise Fund must be adequately funded to anticipate major capital expenses. While this fund is a sustaining fund whose balance carries forward from year to year, the fees that serve as its main source of funds must be reviewed periodically to ensure sufficient balance is available to cover anticipated expenses. Leveraging or bonding this fund for such purposes should be an available tool to the Town.

E. Managing Resources

To give residents a higher quality of life, and meet the expectations of visitors, the Town needs to ensure that the quality of recreation and open space resources remains high. This requires property management and regular maintenance that enhances and sustains environmental quality and user experiences. Coordination for maintenance and management of parks and open space needs to be clearly articulated among the municipal departments and roles and responsibilities should be clearly identified. A long-range program will establish the development, use, and maintenance of existing and proposed new facilities with appropriate funding to ensure its implementation. Incorporating maintenance and scheduled improvements into the Capital Improvement Plan and help manage expectations and resources.

The athletic fields assessment conducted by Gale Associates (2011) for the School Department also included an evaluation of municipally-maintained fields. Fields at Christofaro and Sprague parks were both considered overused and conditions were fair to poor; however, recent funding and maintenance services have been increased over the past two years, which have greatly improved the fields, courts and lighting at Sprague Park, Christofaro Park and George C. Park. Neighborhood residents or community groups can be great partners and have been solicited to take an active interest in parks they use the most. The town should continue to evaluate the high demands on these fields and look at the feasibility of increasing the number of fields available in the future.

The Town has development management plans for its larger parks and open space resources, including Christofaro Park, Bridgepoint Commons, Canonchet Farms, Sunset Farms, The Camp, and The Towers. These plans discuss uses and public access into the properties, which may include walking trails and boat docks. They also address areas where access should be limited to protect a resource’s functionality. Localizing vehicle parking, mowing schedules, and seasonal access are all ways to protect resources while still allowing the public to experience an area’s beauty. Monitoring the success of existing management plans and periodic updating should be done to ensure that objectives are being met and to identify any new opportunities that may arise. For municipal properties that lack management plans, the Town should continue to pursue their development. Some of these properties include Sprague Park, The Town Beach, Veterans Park, and Gazebo Park. The Town is currently drafting a Strategic Plan for the Town Beach.

One way to approach property management is to create a comprehensive and integrated plan that includes historic and cultural resources (See also Historic and Cultural Resources). All of these resources are interrelated and add value to each other. Managing together provides consistency and allows the Town to leverage resources with partners across the board.
F. Building Partnerships

As municipal budgets become more limited, Towns are looking to other resources, in-kind and financial, to assist in developing and maintaining recreational facilities and open space resources. Many properties in Narragansett with public access are owned and managed by both governmental agencies, including the U.S. Fish and Wildlife Services and the RIDEM, and non-governmental organizations like The Nature Conservancy and Rhode Island Audubon. Local groups, such as Friends of Canonchet and Narrow River Preservation Association, also cooperate with the Town in outreach, planning, and monitoring efforts. The Parks and Recreation Department also uses the gymnasiums of the School Department extensively and also works with The Prout School, River Bend Athletic Club and Monsignor Clarke School for other gymnasium and recreational needs. These partners provide additional resources to acquire and protect important resources.

G. Goals, Policies and Action Items

Goal ROS1: Provide residents and visitors with high-quality recreational facilities and open space resources that meet diverse needs and changing demands.

Policy ROS 1.1: Provide neighborhood-based recreational facilities to all areas of Town. (See Policy H2.1)

Policy ROS 1.2: Promote increased public access to the shore.
   a. Use the Conservation Commission’s Adopt-a-Spot program to maintain and develop new coastal access sites and connect with historic and cultural resources.
      • Study all of the town’s platted, unaccepted town roads that terminate at a coastal access point.
   b. Develop a rights-of-way plan that ranks coastal access ways in need of improvements. Develop plans for these areas and a schedule and estimated cost of improvements.
   c. Develop a public boat ramp in an area that provides safe and easy access to the ocean in order to relieve boating pressure on Narrow River and Point Judith Pond.
   d. Work with RIDOT, USFWS and others to improve public access to the Narrow River in the vicinity of the Sprague Bridge.
   e. Develop expanded facilities and programs only if all safety consideration have been addressed and are implemented simultaneously with the Plan.

Policy ROS 1.3: Increase opportunities for year-round use of recreational and open space resources as a way to increase economic opportunities.
   a. Develop opportunities for more indoor and outdoor recreational activities and ensure there are no zoning barriers in districts where these uses would be appropriate.
   b. Incorporate economic development objectives into property management plans.
   c. Identify off-season recreational uses of recreation and open space resources, including activities and events, to promote use year-round.
   d. Work with the Chamber of Commerce and South County Tourism Council to develop a geotourism package that highlights how residents and visitors to Narragansett and the region can experience what makes Narragansett unique.
Policy ROS 1.4: Meet the diverse recreational needs of residents of all ages through strategic planning and cooperative approaches.
   a. Develop multi-use recreational complexes for new facilities rather than isolated single purpose recreational facilities.
   b. Continue to work with the School Department to expand opportunities to share recreational resources.
   c. Continue coordination with area arts organizations, museums, historical societies, and other interest groups for programming, gymnasium and other recreational needs.
   d. Work with adjacent towns and URI to explore the need and feasibility for a regional sports complex with pools, ice rink, gymnasium, track, etc.
   e. Complete a master plan for the Middlebridge property.

Policy ROS 1.5: Work with governmental and non-governmental partners to ensure that local recreational and open space needs are met while still satisfying demands of regional visitors.
   a. Coordinate with the State of Rhode Island and South County Tourism Council in recreational planning to ensure that state policies are developed in concert with town policies.
   b. Support the establishment of a regional nonprofit South County Land Trust.
   c. Establish communication with federal and state officials regarding the potential town acquisition of federally-owned and state-owned open space and recreational lands as they become available.

Goal ROS2: Promote the development and acquisition of recreational facilities and open space resources as an integrated system.

Policy ROS 2.1: Link parks, open spaces, scenic points, adopt-a-spots and overlooks with the Town’s circulation system of walkways, trail systems, and bike paths. (See Policy HCS 2.2)
   a. Identify gaps between resources and neighborhoods. (See Policy H2.1)
   b. Identify and secure funding to build connections
   c. Increase bike safety through bike path development, striping, signage and, where possible, roadway shoulder improvements. (See Policy T2.2)
   d. Continue the planning and implementation of recreational trails town-wide.

Policy ROS 2.2: Use a variety of regulatory and programmatic approaches that promote the dedication and acquisition of park land, natural areas, and open space. (See LU 2.4)
   a. Encourage the dedication of open space and recreational lands in new, larger subdivision approvals with a reasonable and legally defensible district based recreational land/fee assessment. At a minimum, the exaction should be based upon a no net loss in existing town-owned recreational and open space land per person. District based fees must be placed in special accounts established for that purpose and not in the general fund.
   b. Promote the use of the Planned Residential District floating zone and cluster zoning as a means to guide new subdivision development to preserve the natural areas that are integrated with resources on adjacent properties.
Policy ROS 2.3: Support municipal efforts, including those of the Narragansett Land Conservancy Trust, in its endeavors to acquire and manage historic, cultural, recreation and open space properties.
   a. Use the Narragansett Land Conservancy Trust (NLCT) to promote a voluntary easement donation program, expanding to easement purchase when the land warrants and funding allows.
   b. Acquire historic and open space easements through the NLCT. Historic buildings on these properties may be sold, in turn, to private parties with preservation easements, enabling the Land Trust to recoup expenses.
   c. Develop programs that enable the Town to purchase agricultural lands or their development rights.
   d. Develop incentives that encourage voluntary gifts of conservation easements that protect current private open space lands, including but not limited to, those registered with the Farm, Forest and Open Space Program.
   e. Catalogue restrictive easements and covenants on open space lands within new and existing developments so that an easily accessed record of open space dedications is retained and available to decision makers and the public.
   f. Monitor acquired easements with support from NLCT.
   g. Encourage the acquisition or preservation of marshlands through easements.

Policy ROS 2.4: Maintain recreational and open space resources to ensure their functionality and usefulness.
   a. Develop master plans for the Town’s major recreational and open space properties, including, but not limited to, The Camp, Sprague Park, Veterans Park, Gazebo Park, the Town Beach (in progress), and the Middlebridge Road property.
   b. Implement a Capital Improvement Program (CIP) to schedule in a phased and systematic manner acquisition and development of recreational and open space facilities within the financial capabilities of the Town. Integrated action items of property master plans.
   c. Coordinate with all town departments, including Parks and Public Works, the School Department, and Community Development, to clarify roles and responsibilities and create a long-range program for the development, use and maintenance of existing and proposed new facilities.
   d. Develop partnerships with local community groups and any appropriate boards and commissions to identify cooperative efforts in the maintenance of recreational sites.
   e. Review existing municipal property management plans to document implementation, ensure consistency with the comprehensive plan, and update as needed to meet changing needs: Sunset Farms, Bridgepoint Commons, Canonchet Farm, and The Towers.
Town of Narragansett

Comprehensive Plan:
Action Plan

Approved by the Narragansett Planning Board September 6, 2016
Adopted by the Narragnasett Town Council September 5, 2016

Prepared by:
Horsley Witten Group, Inc.
McMahon Associates, Inc.
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The Action Plan is an implementation schedule of the action items presented in The Roadmap. In some cases, the action has been abbreviated. The full text and meaning behind each action is outlined in The Roadmap. The schedule identifies the anticipated timeframe for completing each action: **ST** - short term (within 3 years), **MT** - mid term (3 to 10 years), **LT** - long term (more than 10 years), and **OG** - on-going. It also includes responsible municipal parties, which are listed at the bottom of each page.

<table>
<thead>
<tr>
<th>Action</th>
<th>Time Frame</th>
<th>Responsible Party</th>
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<tbody>
<tr>
<td><strong>LAND USE</strong></td>
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<tr>
<td><strong>Goal LU1</strong>: Make local land use decisions in an open and transparent environment, based on sound planning principles and with the most accurate and available data.</td>
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</tr>
<tr>
<td><strong>Policy LU1.1</strong>: Ensure that the Comprehensive Plan reflects the Town’s vision of its future and use it to guide land use decisions and the development of local regulations and policies.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Make all land use decisions in accordance with the Future Land Use Map (FLUM).</td>
<td>OG</td>
<td>PB, TC, CD</td>
</tr>
<tr>
<td>b. Amend Zoning Ordinances and Subdivision and Land Development Regulations to be consistent with the FLUM and intent of the comprehensive plan.</td>
<td>ST</td>
<td>PB, TC, CD</td>
</tr>
<tr>
<td>c. Review and update regulations in light of new legal developments.</td>
<td>OG</td>
<td>CD, PB, TC</td>
</tr>
<tr>
<td>d. Continue to review and update the Comprehensive Plan in accordance with state planning initiatives.</td>
<td>OG</td>
<td>CD, PB, TC</td>
</tr>
<tr>
<td><strong>Policy LU1.2</strong>: Support local boards and commissions in their ability to make sound land use decisions that are consistent with the goals and policies of the Comprehensive Plan.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Continue to train boards and commissions.</td>
<td>OG</td>
<td>CD, ENG, TM</td>
</tr>
<tr>
<td>b. Improve computer access to regulations and land use data through the Internet and GIS.</td>
<td>OG</td>
<td>CD, ENG, TA, TM</td>
</tr>
<tr>
<td><strong>Policy LU1.3</strong>: Support regional and statewide planning efforts as a way to increase local capacity to achieve the goals and policies of the Comprehensive Plan.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Continue to cooperate with other towns in the South County region in protecting the positive image and amenities of the area.</td>
<td>OG</td>
<td>CD, TC</td>
</tr>
<tr>
<td>b. Work with the various state agencies in their planning efforts around the region, as well as those statewide that may have local impacts.</td>
<td>OG</td>
<td>CD</td>
</tr>
<tr>
<td>c. Monitor new state rules and regulations as they related to Narragansett. Examples include CRMC Beach, Salt Ponds and Narrow River Special Area Management Plans (SAMPs).</td>
<td>OG</td>
<td>CD, ENG</td>
</tr>
</tbody>
</table>

**Responsible Parties:**
- AHB Affordable Housing Board
- BI Building Inspector
- CC Conservation Commission
- CD Community Development
- EDC Economic Development Commission
- ENG Engineering Department
- EMA Emergency Management Agency
- FD Fire Department
- HC Historic Commission
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**Time Frame for Implementation:**
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Narragansett Comprehensive Plan **Action Plan**

- 1 -

ADOPTED October 24, 2016
<table>
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<tr>
<th>Action</th>
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<tbody>
<tr>
<td>d. Coordinate with South Kingstown and North Kingstown on development planning and land use decisions for properties at the town borders.</td>
<td>OG</td>
<td>CD, PB</td>
</tr>
</tbody>
</table>

**Goal LU2: Promote sustainable growth that builds on Narragansett’s distinct character as a unique seaside community, is within the natural capacity of the land, and provides a healthy quality of life.**

**Policy LU2.1: Promote the Pier Area as the town center.**

a. Undertake a more detailed study of issues and opportunities in the Pier Area and consider implementing special district plan for the area.                                                        | MT         | CD, PB            |

b. Work with property owners to develop a cooperative relationship and shared vision of the Pier area.                                                                                           | OG         | CD, PB            |

c. Review and update zoning to promote development of the Pier Area that supports the atmosphere as an historic seaside area.                                                                             | MT         | CD, PB, TC        |

**Policy LU2.2: Promote residential development that strengthens neighborhoods, respects natural resources, preserves open space, avoids sprawl and reinforces community character. (See Goals H1 and H2 as well as Policy ROS1.1)**

a. Where there is a desire, work with residents to establish a future vision for their neighborhood and develop regulatory standards to meet that vision.                                           | ST         | CD                |

b. Use building floor to area ratio (FAR) as a way to determine its effectiveness in maintaining the building scale in a neighborhood.                                                               | ST         | CD, PB            |

**Policy LU2.3: Guide development to protect and enhance the Town’s natural resources.**

a. Review and update existing Zoning Ordinances and Subdivision and Land Development Regulations to ensure adequate protection of water quality and wildlife habitats.                              | OG         | CD, PB, ENG       |

b. Investigate strategies to obtain or transfer development rights from pre-existing, undersized lots in order to protect natural resources in designated Greenbelt areas.                             | LT         | CD, PB            |

c. Consider sewer extensions to areas with a large number of pre-existing undersized lots to protect water quality.                                                                                | LT         | CD, ENG           |

d. Continue to restrict development in Areas of Critical Concern identified in CRMC’s Salt Pond and Narrow River SAMPs to low density residential use or acquire land as open space. Consider economic incentives for owners not to development in these areas. | OG         | CD, PB            |

e. Revisit and update the regulatory triggers for requiring environmental impact assessments on large projects.                                                                                  | MT         | CD, PB, TC        |

f. Incorporate natural resource protection and enhancement in implementing the Hazard Mitigation Plan.                                                                                               | MT         | HM                |

**Responsible Parties:**

- AHB Affordable Housing Board
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- ZB Zoning Board

**Time Frame for Implementation:**

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- OG - On-going
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<tr>
<td>g. Incorporate low impact development techniques into the Subdivision and Land Development Regulations.</td>
<td>MT</td>
<td>CD, PB</td>
</tr>
<tr>
<td>h. Review the Town’s Zoning Ordinance (Section 7.7) Supplemental Drainage Requirements and other ordinances that require stormwater management and, where appropriate, incorporate by reference the Rhode Island Stormwater Design and Installation Standards Manual (2010).</td>
<td>ST</td>
<td>CD, PB, TC, ENG</td>
</tr>
<tr>
<td><strong>Policy LU2.4: Build on the Greenbelt network that protects dedicated open space and enhances local development.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Use a greenbelt network plan to meet stated objectives.</td>
<td>OG</td>
<td>CD, PB</td>
</tr>
<tr>
<td>b. Establish priorities for acquisition of open space that creates the greenbelt network.</td>
<td>ST</td>
<td>CD, CC, LCT, TC</td>
</tr>
<tr>
<td>c. Develop strategies to implement a greenbelt network.</td>
<td>MT</td>
<td>CD, PB</td>
</tr>
<tr>
<td>d. Review and update open space requirements for subdivision and land developments.</td>
<td>MT</td>
<td>CD, PB</td>
</tr>
<tr>
<td><strong>Policy LU2.5: Ensure that growth can be accommodated by existing or planned infrastructure and community services. (See Goals CSF 7, 8, and 10)</strong></td>
<td></td>
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</tr>
<tr>
<td>a. Continue to extend sewers in accordance with the Wastewater Management Plan to developed residential neighborhoods where they are needed to address or prevent public health issues.</td>
<td>LT</td>
<td>CD, ENG, TC</td>
</tr>
<tr>
<td>b. Prohibit sewer line extension into undeveloped areas that are unbuildable without sewers, or carefully weigh the impacts of sewer extensions upon the environment, growth and related items.</td>
<td>OG</td>
<td>CD, ENG, TC</td>
</tr>
<tr>
<td>c. Continue to extend sewers to commercial areas where appropriate in order to facilitate the optimal development of commercially-zoned property.</td>
<td>LT</td>
<td>CD, ENG, TC, PB</td>
</tr>
<tr>
<td>d. Consider the acquisition of land near or adjacent to existing community facilities if it would facilitate future expansion of those facilities.</td>
<td>OG</td>
<td>CD, LCT, ENG, TC</td>
</tr>
<tr>
<td>e. Continue to implement the Community Septic System Loan Program in areas where sewers will not be extended.</td>
<td>OG</td>
<td>CD, ENG</td>
</tr>
<tr>
<td>f. Revise the zoning ordinance to ensure that stormwater runoff and drainage issues are adequately addressed to implement water quality requirements of the Town’s NPDES Phase II permit and the Rhode Island Stormwater Manual, as revised.</td>
<td>ST</td>
<td>CD, PB, ENG</td>
</tr>
<tr>
<td>g. Establish policies for very high water users to ensure that usage is within the capacity of existing and future water availability.</td>
<td>ST</td>
<td>ENG</td>
</tr>
<tr>
<td><strong>Policy LU2.6: Promote energy efficient design and “green” practices, such as guidance from the US Green Building Council for LEED, for commercial and residential development and redevelopment projects.</strong></td>
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</table>

*Responsible Parties:*

- AHB Affordable Housing Board
- BI Building Inspector
- CC Conservation Commission
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- ENG Engineering Department
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- FD Fire Department
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- PW Public Works Department
- SD Narragansett School Department
- TA Tax Assessor Office
- TC Town Council
- TM Town Manager
- TWRS Towers Committee
- ZB Zoning Board

*Time Frame for Implementation:*

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Narragansett Comprehensive Plan Action Plan - 3 - ADOPTED October 24, 2016
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<tr>
<th>Action</th>
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</tr>
</thead>
<tbody>
<tr>
<td>a. Update Zoning Ordinances and Subdivision and Land Development Regulations to promote construction cost savings, home energy conservation, reduced residential water consumption, and improved indoor air quality, among other driving principles of LEED.</td>
<td>ST</td>
<td>CD, PB, TC</td>
</tr>
<tr>
<td>b. Identify opportunities and ways to encourage “green” building design into new construction.</td>
<td>ST</td>
<td>CD, ENG, PB</td>
</tr>
</tbody>
</table>

**Policy LU2.7: Guide business development to ensure that it maintains community character in existing commercial and industrial areas.**

| a. Review zoning to clarify the function of each business zoning district. Consider adding new zoning categories to better regulate transitional areas between residential and heavy commercial or industrial areas. | ST | CD, PB, TC |
| b. Resist establishing new business zones in high traffic areas that will not meet local needs or will detract from community character or way of life. | OG | CD, PB |
| c. Review commercial site plan requirements to maintain appropriate design standards that avoid “strip” development. | OG | CD, PB |
| d. Consider and implement tools, as appropriate, to manage fiscal impacts of growth (impact fees, growth rate permitting and the promotion of economic development). | MT | CD, PB, TC |

**Policy LU2.8: Maintain and enhance community character by pursuing development of secondary activity areas outside of the Pier.**

| a. Develop design guidelines for new development, redevelopment and infill projects. | LT | CD, PB |
| b. Evaluate the implementation of a design review process for development or substantial renovation of major buildings (commercial, industrial, civic and multifamily residential). | LT | CD, PB |
| c. Investigate zoning for successful architectural design and variety. Consider incentives that could be offered. | MT | CD, HC |
| d. Target highly visible and heavily traveled areas for improvements in design to improve overall appearance and traffic patterns. | MT | CD, ENG, PW |
| e. Evaluate challenges and opportunities in Special Planning Districts and develop strategies to enhance the quality of life and business success in these areas. They include: Boston Neck Road at South Ferry Road, Boston Neck Road at Bonnet Shores Road, Boon Street, and Dillon Rotary/Caswell's Corner. | LT | CD, PB, TC |
| f. Establish requirements for different levels of review for either new development or redevelopment projects. | ST | CD, PB, TC |
| g. Evaluate zoning strategies that that can help maintain neighborhood character town-wide. | MT | CD, PB, TC |

**Responsible Parties:**
- AHB Affordable Housing Board
- BI Building Inspector
- CC Conservation Commission
- CD Community Development
- EDC Economic Development Commission
- ENG Engineering Department
- EMA Emergency Management Agency
- FD Fire Department
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- HM Hazard Mitigation Committee
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- TA Tax Assessor Office
- TC Town Council
- TM Town Manager
- TWRs Towers Committee
- ZB Zoning Board

**Time Frame for Implementation:**
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Narragansett Comprehensive Plan *Action Plan* - 4 - ADOPTED October 24, 2016
## ECONOMIC DEVELOPMENT

**Goal ED1** Support a diverse economy that meets the needs of residents and visitors.

**Policy ED1.1** Pursue strategies to maintain a strong tourist economy that is beneficial to the Town.

<table>
<thead>
<tr>
<th>Action</th>
<th>Time Frame</th>
<th>Responsible Party</th>
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<tbody>
<tr>
<td>a. Identify ways to connect visitors to local businesses.</td>
<td>MT</td>
<td>CD, EDC</td>
</tr>
<tr>
<td>b. Develop ways to capture incoming and departing customers through site design.</td>
<td>MT</td>
<td>CD, PB</td>
</tr>
<tr>
<td>c. Partner with such groups as local realtors, property managers and the local chamber of commerce to develop strategies that bring awareness of local commerce and services for weekly renters.</td>
<td>ST</td>
<td>EDC</td>
</tr>
<tr>
<td>d. Partner with local businesses and associations to develop mechanisms that can increase overnight stays.</td>
<td>MT</td>
<td>EDC</td>
</tr>
<tr>
<td>e. Work with local hotels, restaurants and religious institutions to market Narragansett as a wedding destination.</td>
<td>ST</td>
<td>EDC</td>
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</table>

**Policy ED1.2** Explore opportunities to expand “shoulder season” commerce opportunities.

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<tr>
<th>Action</th>
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<tbody>
<tr>
<td>a. Increase programming in open space and recreational areas around the Pier. Ensure that parking is adequately managed for events.</td>
<td>MT</td>
<td>PR, HC, CD, EDC</td>
</tr>
<tr>
<td>b. Find ways to incorporate farmers markets and fish markets in locations where locals frequent.</td>
<td>MT</td>
<td>EDC</td>
</tr>
<tr>
<td>c. Work with the Historic Commission to develop and enhance historic tours in the shoulder seasons.</td>
<td>ST</td>
<td>EDC, HC</td>
</tr>
<tr>
<td>d. Partner with local theater and arts organizations to schedule arts and culture events during the shoulder seasons.</td>
<td>ST</td>
<td>HC, PR, EDC, LB</td>
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</tbody>
</table>

**Policy ED1.3** Support year-round businesses that serve our residents.

<table>
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<tr>
<th>Action</th>
<th>Time Frame</th>
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<tbody>
<tr>
<td>a. Connect neighborhoods to commercial areas through improvements like walkways and signage.</td>
<td>MT</td>
<td>CD, PW</td>
</tr>
<tr>
<td>b. Explore tax and/or loan incentives for year-round businesses for beautification, small business capacity building, expansion, or necessary repairs.</td>
<td>LT</td>
<td>CD, EDC, TC, TA</td>
</tr>
<tr>
<td>c. Actively solicit new or expanded professional office, medical, and other high paying businesses in Town. Actively seek out, solicit, and facilitate the location of service, technology, and light industrial enterprises in Narragansett that offer highly paid employment opportunities.</td>
<td>MT</td>
<td>CD, EDC</td>
</tr>
<tr>
<td>d. Integrate future library expansion with surrounding local businesses.</td>
<td>ST</td>
<td>LB, EDC</td>
</tr>
<tr>
<td>e. Preserve and maintain agricultural uses on the Town’s locally owned farms and encourage new agricultural uses as appropriate.</td>
<td>OG</td>
<td>CD, PB</td>
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</tbody>
</table>

**Policy ED1.4** Provide a fair, predictable, and timely local regulatory process that encourages investment in Narragansett.
<table>
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<tr>
<th>Action</th>
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<tbody>
<tr>
<td>a. Establish an economic development coordinator as the business community liaison and first point of contact with the town in the regulatory process.</td>
<td>ST</td>
<td>CD, EDC</td>
</tr>
<tr>
<td>b. Develop and package guidelines and checklists on local review process for businesses and developers.</td>
<td>ST</td>
<td>CD, EDC</td>
</tr>
</tbody>
</table>

**Policy ED1.5** Policy 1.4 Maintain a housing stock suitable for all people. (See all goals, policies and actions of Housing and Neighborhoods.)

**Policy ED1.6** Pursue other business sectors that can diversify the local economy.

| a. | Develop an approach to reach out to and attract new types of businesses that complement and support the existing business community and changing technology. | MT | CD, EDC |

**Goal ED2** Develop and maintain infrastructure conducive to local economic development.

**Policy ED2.1** Maintain important databases and indicators for commerce in the community.

| a. | Complete an inventory of existing business and industry and develop a strategy to ensure that the inventory is maintained. | MT | CD, EDC, TA |
| b. | Assess trends of commercial and industrial tax base over time in Narragansett. | LT | CD, EDC, TA |
| c. | Track revenues seasonally to understand dynamics in the local economy. | LT | CD, EDC, TA |
| d. | Estimate the impacts of different transient populations (e.g., week-long renters, students). | LT | CD, EDC |

**Policy ED2.2** Develop circulation systems that optimize access to local commerce.

| a. | Evaluate existing signage and lighting around commercial areas and tourist attractions. Identify ways in which signage and lighting can improve visibility of local businesses. | ST | CD, PW |
| b. | Study the feasibility of reconfiguring Ocean Road to include bike and pedestrian access. | LT | CD, PW |
| c. | Increase bicycle signage, lanes and shared-lane markings for bikes in the Town’s commercial areas. | MT | CD, PW |
| d. | Consider access management strategies that minimize curb cuts and maximize gateways. | ST | CD, PB |
| e. | Evaluate ways to improve the pedestrian experience in the Pier Area to encourage pedestrian access to the business centers. | OG | CD, PW |

**Policy ED2.3** Manage parking throughout the community to maximize access and aesthetic appeal.

| a. | Develop detailed parking lot design standards. | ST | CD, PB |
| b. | Consider maximum parking standards to complement existing parking requirements. | MT | CD, PB |
| c. | Explore the use of a parking improvement district or dedicated circulation fund. | LT | CD, PB, TC |
| d. | Develop wayfinding signage system for parking areas. | ST | CD, PW |
| e. | Consider the use of beach parking areas after hours to support local business activity and special events. | ST | CD, PR, TC |

**Policy ED2.4** Maintain lines of communication and important relationships with the business community.

- **Responsible Parties:**
  - AHB Affordable Housing Board
  - BI Building Inspector
  - CC Conservation Commission
  - CD Community Development
  - EDC Economic Development Commission
  - ENG Engineering Department
  - EMA Emergency Management Agency
  - FD Fire Department
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Narragansett Comprehensive Plan *Action Plan* - 6 - ADOPTED October 24, 2016
a. Establish a local network with the Chamber of Commerce, local industrial complexes, significant landholders in town, fishing community, and state agencies such as RIEDC, CRMC and DEM.  

Policy ED2.5 Ensure tax policies are attractive to potential new businesses.  

a. Review the Town’s current tax policy.  

Goal ED3 Capitalize on the economic opportunities specific to different areas of town.  

Policy ED3.1 Develop tools that are tailored to commercial areas outside of the Pier.  

a. Develop economic and physical master plans for Boon Street and other commercial special districts noted on the Future Land Use Plan.  

b. Examine opportunities for better internal circulation and access management for sites on Boston Neck Road.  

c. Continue to support Galilee as an important commercial fishing port for the region.  

Policy ED3.2 Develop tools that are specifically tailored to the Pier area.  

a. Examine the open space restrictions for Casino Park to see if there may be opportunity to reprogram that area.  

b. Physical master plan for the Pier area that explores specified objectives.  

Policy ED3.3 Explore more sophisticated “place-based” regulatory approaches for different districts.  

a. Continue to revisit zoning related to allowable uses, parking, dimensional standards and other requirements in specific districts to ensure there are no roadblocks to quality redevelopment.  

b. Explore the possibility of introducing form-based zoning elements on various streets in the Pier area.  

c. Explore the potential application of design standards to commercial areas on Boston Neck Road, Boon Street, and at Woodruff Ave/Point Judith Road.  

d. Consider allowing housing types such as top of the shop and cottage style units into areas around the Pier, Boon Street and off the edges of Boston Neck Road commercial properties.  

e. Ensure that existing zoning in Galilee supports commercial fishing industry uses and infrastructure capacity is maintained.  

f. Cultivate a working relationship with URI/Graduate School of Oceanography to develop marine-related jobs in local businesses and new business enterprises in proximity to the URI Bay Campus.  

COMMUNITY SERVICES AND FACILITIES

<table>
<thead>
<tr>
<th>Responsible Parties:</th>
<th>ENG Engineering Department</th>
<th>LCT Narragansett Land Conservancy Trust</th>
<th>SD Narragansett School Department</th>
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<tr>
<td>AHB Affordable Housing Board</td>
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<td>Time Frame for Implementation:</td>
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</table>

Narragansett Comprehensive Plan Action Plan - 7 - ADOPTED October 24, 2016
### Goal CSF1: Assure that current and future growth is served with economically planned and well-maintained services and facilities.

### Goal CSF2: Provide the Narragansett community with a high level of municipal administration.

#### Policy CSF 2.1: Provide the community with an efficient government that responds to changing needs.

<table>
<thead>
<tr>
<th>Action</th>
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<tbody>
<tr>
<td>a. Upgrade software systems to improve municipal services and processes.</td>
</tr>
<tr>
<td>b. Coordinate departments and establish intra-department communications.</td>
</tr>
<tr>
<td>c. Identify opportunities to share resources with neighboring communities.</td>
</tr>
<tr>
<td>d. Offer continuing education, training and refresher courses for municipal staff.</td>
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<tr>
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#### Policy CSF 2.2: Provide the community with a transparent and open government.

<table>
<thead>
<tr>
<th>Action</th>
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</thead>
<tbody>
<tr>
<td>a. Administer public notifications according to local and state requirements.</td>
</tr>
<tr>
<td>b. Regularly update the Town’s website with current information on municipal operations and activities.</td>
</tr>
</tbody>
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<tr>
<th>Time Frame</th>
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<tbody>
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<td>OG</td>
<td>TK, TM, TC</td>
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</table>

### Goal CSF3: Ensure that school facilities and grounds are safe and productive environments for students and teachers.

#### Policy CSF 3.1: Retain the capacity and number of school facilities.

<table>
<thead>
<tr>
<th>Action</th>
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<tbody>
<tr>
<td>a. Consider alternative, temporary educational and non-educational uses of school facilities that may not be currently occupied by classrooms. Evaluate short, mid and long-term actions.</td>
</tr>
<tr>
<td>b. As demographic statistics become available, review and update short, mid and long classroom and facility needs. Ensure that school core areas meet needs (e.g., cafeteria, kitchen, auditorium).</td>
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<th>Time Frame</th>
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<td>OG</td>
<td>SD, TC</td>
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</table>

#### Policy CSF3.2: Maintain and upgrade school buildings and grounds to ensure their long-term usability.

<table>
<thead>
<tr>
<th>Action</th>
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<tbody>
<tr>
<td>a. Use the School Department’s Asset Management Plan to identify building and facility maintenance to sustain their long-term functionality.</td>
</tr>
<tr>
<td>b. Continue to improve school buildings with energy-efficient systems, such as lighting, heating and cooling, window/exterior door replacement, etc. Use recent energy audit findings to prioritize projects, establishing short, mid, and long-term actions for the CIP.</td>
</tr>
<tr>
<td>c. Develop strategies to address school bus storage and maintenance. Pursue options to move the school bus fleet at Avice Street and identify viable reuse options.</td>
</tr>
<tr>
<td>d. Evaluate strategies to improve pedestrian and vehicle flow at Narragansett Elementary School.</td>
</tr>
<tr>
<td>e. Use the high school greenhouses to promote agricultural education for students and the community at large.</td>
</tr>
<tr>
<td>f. Prioritize field improvements based on facilities assessment report. Incorporate into CIP.</td>
</tr>
</tbody>
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<tr>
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<tr>
<td>ST</td>
<td>SD, TC</td>
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**Responsible Parties:**

- AHB Affordable Housing Board
- BI Building Inspector
- CC Conservation Commission
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- EDC Economic Development Commission
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**Time Frame for Implementation:**

- ST - Short Term (within 3 years)
- MT - Mid Term (3-10 years)
- LT - Long Term (10+ years)
- OG - On-going

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<tbody>
<tr>
<td>g. Equip school department buildings, to the greatest extent practicable, to meet current and future technology in educational services. Develop short, mid, and long-term strategies to meeting anticipated advances in teaching methods.</td>
<td>OG</td>
<td>SD, TC</td>
</tr>
<tr>
<td>h. Continue to apply for Safe Routes to School funds to improve access to schools for walking and biking.</td>
<td>OG</td>
<td>CD, SD</td>
</tr>
</tbody>
</table>

**Goal CSF4: Provide the Narragansett community with the highest level of police, fire, and emergency response services.**

**Policy CSF4.1: Ensure that the Police Department has the resources to provide prompt, efficient, and courteous services to the Narragansett community.**

| a. Continue to evaluate municipal policies and ordinances that address residential nuisance complaints to ensure fair and equitable responses and resolutions. | OG | PD, TC |
| b. Seek continuing solutions to address the integration of the community with higher education student housing and ensure law enforcement services and protections are available and fairly implemented for all residents, youth, adult, student and seniors alike. | ST | TC |
| c. Seek funding to address facility, program, and training demands that will increase the Police Department’s ability to respond to community needs. | OG | PD, TC |

**Policy CSF4.2: Ensure that the Fire Department and Emergency Response Team have the resources to meet emergency and non-emergency calls.**

| a. Continue to monitor firefighter facility and equipment needs. | OG | FD, TC |
| b. Develop a plan to address renovations and expansion at the South End Station. | LT | FD |
| c. Continue to evaluate alternative sites for a new Fire Department Headquarters. | OG | FD, TC |
| d. Continue to update and implement the Apparatus Replacement Plan through the Town’s CIP. | OG | FD, TC |
| e. Evaluate the potential of a regional dispatch for the long-term with North Kingstown and South Kingstown. | LT | FD, PD |
| f. Establish procedures with North Kingstown and South Kingstown to accommodate events that require additional emergency response resources. | ST | FD, PD |

**Policy CSF4.3: Ensure that the Narragansett Emergency Management Agency is able to meet the responsibilities of planning, response, recovery, and mitigation of natural and man-made disasters.**

| a. Establish a schedule for periodic updates of the Town’s Emergency Operations Plan, as necessary. | ST | EMA |
| b. Coordinate with FEMA, RIEMA, and other emergency response agencies. | OG | EMA |
| c. Integrate the Department of Public Works into the Emergency Response Plan and preparedness training. | ST | EMA, PW |

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**Time Frame for Implementation:**

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- MT - Mid Term (3-10 years)
- LT - Long Term (10+ years)
- OG - On-going

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<tbody>
<tr>
<td><strong>Goal CSF5: Provide the Narragansett community with library services that accommodate residents of all ages and abilities and meet state standards.</strong></td>
<td></td>
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</tr>
<tr>
<td><strong>Policy CSF5.1: Offer diverse programming that meets the needs of all residents.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Link library with municipal historic, cultural, and recreational projects and programs, such as those of the Parks and Recreation Department, Historic Commission, Land Trust, etc.</td>
<td>OG</td>
<td>LB, HDC, PR, LCT</td>
</tr>
<tr>
<td>b. Evaluate opportunities to expand young adult programming.</td>
<td>ST</td>
<td>LB</td>
</tr>
<tr>
<td><strong>Policy CSF5.2: Ensure that all residents have access to library services and resources.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Address requirements related to the Americans with Disabilities Act (ADA) and bring current building up to code.</td>
<td>ST</td>
<td>LB</td>
</tr>
<tr>
<td>b. Improve internet access to keep up with advances in communications technology and hardware to make the communication available.</td>
<td>ST</td>
<td>LB</td>
</tr>
<tr>
<td><strong>Policy CSF5.2: Ensure that the library facility is functional, adequately maintained, safe for all users, and adaptable to changing technology.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Continue to work with private land owner adjacent to the Library to manage parking needs.</td>
<td>OG</td>
<td>LB, ENG, TC</td>
</tr>
<tr>
<td>b. Continue to move forward with the building program for a 25,000 square-foot facility as outlined by the March, 2012 assessment that includes potential funding sources and strategies for expansion, whether onsite or in a new location.</td>
<td>ST</td>
<td>LB</td>
</tr>
<tr>
<td>c. Consider expanding the functions of the Library to include that of a Community Center.</td>
<td>LT</td>
<td>LB</td>
</tr>
<tr>
<td>d. Consider the benefit of including the senior community in all library-related goals</td>
<td>ST</td>
<td>LB</td>
</tr>
<tr>
<td><strong>Goal CSF6: Maintain an effective Public Works Department that can adequately address construction and maintenance of municipal infrastructure and facilities.</strong></td>
<td></td>
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</tr>
<tr>
<td><strong>Policy CSF6.1: Ensure that public works facilities, equipment, and staffing adequately meet the needs of the Town to provide a high level of service.</strong></td>
<td></td>
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</tr>
<tr>
<td>a. Investigate ways to expand the building and storage potential for the Public Works Department at the Westmoreland Street facility (acquiring adjacent or nearby land).</td>
<td>MT</td>
<td>PW</td>
</tr>
<tr>
<td>b. Continue to evaluate staffing capacity to meet demands of services, particularly routine maintenance.</td>
<td>OG</td>
<td>PW</td>
</tr>
<tr>
<td>c. Inventory and assess department equipment and commit to a replacement program that can be incorporated into the CIP.</td>
<td>OG</td>
<td>PW</td>
</tr>
<tr>
<td><strong>Policy CSF6.2: Implement long-term improvement programs for roadways, bridges, sidewalks, municipal parking lots, and infrastructure in the public right-of-way, including storm drains.</strong></td>
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<td></td>
</tr>
</tbody>
</table>

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**Time Frame for Implementation:**
- ST - Short Term (within 3 years)
- MT - Mid Term (3-10 years)
- LT - Long Term (10+ years)
- OG - On-going
a. Continue to implement the Pavement Management Program by prioritizing street, sidewalk, curbing, and drainage improvements over the next 10 years.  
   **Time Frame**: OG  
   **Responsible Party**: PW

b. Implement the standard local road construction specification book.  
   **Time Frame**: OG  
   **Responsible Party**: PW

c. Establish a 10-year plan to replace street trees in the public ROW that have been removed because of damage or disease and, include a tree maintenance schedule that is funded in accordance with the State Urban Forestry Management Plan.  
   **Time Frame**: MT  
   **Responsible Party**: PW, TC

d. Enter into a mutual aid agreement for Department of Public Works staff and equipment with North Kingstown and South Kingstown.  
   **Time Frame**: ST  
   **Responsible Party**: PW, TC

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**Goal CSF7: Provide the Narragansett community with a sustainable supply of safe drinking water.**

**Policy CSF7.1: Work with North Kingstown, South Kingstown and United Water of Rhode Island to ensure an adequate water supply for all three communities.**

   **Time Frame**: ST  
   **Responsible Party**: ENG

b. Encourage and support South Kingstown and North Kingstown in their efforts to protect the groundwater resources on which all three towns depend for drinking water.  
   **Time Frame**: OG  
   **Responsible Party**: ENG

c. Evaluate potential long-term alternatives to increase inventory and storage of water to accommodate future development, if needed.  
   **Time Frame**: MT  
   **Responsible Party**: CD, ENG

**Policy CSF7.2: Maintain the functionality of municipal water infrastructure, including interconnections.**

a. Complete the Kinney Avenue and North End Tank painting projects.  
   **Time Frame**: ST  
   **Responsible Party**: ENG

b. Prioritize infrastructure improvements for inclusion in the CIP.  
   **Time Frame**: OG  
   **Responsible Party**: ENG, TC

c. Evaluate annually the pricing structure to ensure full support of operational and capital costs.  
   **Time Frame**: OG  
   **Responsible Party**: ENG, TC

**Policy CSF7.3: Encourage the conservation and wise use of drinking water supplies.**

a. Continue to implement conservation techniques.  
   **Time Frame**: OG  
   **Responsible Party**: ENG

b. Continue drought management activities with the RIWRB and water suppliers in neighboring towns.  
   **Time Frame**: OG  
   **Responsible Party**: ENG

c. Continue the Town’s educational program to teach residents and business owners about different water conservation techniques, such as water saving devises, proper lawn maintenance, etc.  
   **Time Frame**: OG  
   **Responsible Party**: ENG

d. Ensure that new development and redevelopment activities can be accommodated by existing and projected water supplies. (See Policy LU 2.5)  
   **Time Frame**: OG  
   **Responsible Party**: CD, PB, ENG

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- MT - Mid Term (3-10 years)
- LT - Long Term (10+ years)
- Ongoing

### Goal CSF8: Ensure the proper treatment of wastewater to protect public health and the natural environment.

**Policy CSF8.1:** Ensure the efficiency of the Town’s wastewater treatment infrastructure by implementing the Wastewater Treatment Facilities Management Plan.

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<tr>
<th>Action</th>
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<tbody>
<tr>
<td>a. Improve and extend sewage collection systems in existing developments in the South End (Pt. Judith Road watershed) and North End (Narrow River, Wesquage watersheds). Avoid extensions of lines which would stimulate overdevelopment in sensitive areas. (See Policy LU 2.5)</td>
<td>OG</td>
<td>ENG, CD, TC</td>
</tr>
<tr>
<td>b. Continue to install emergency connections for portable pumps at critical pumping stations.</td>
<td>ST</td>
<td>ENG, TC</td>
</tr>
<tr>
<td>c. Identify inflow/infiltration projects that will reduce Narragansett’s overall flow contribution to the Westmoreland Treatment Plant. Use earmarked funds from the new connection permit fee for implementation.</td>
<td>OG</td>
<td>ENG, TC</td>
</tr>
<tr>
<td>d. Evaluate the use of innovative sewage treatment methods where it can be shown that there is a net improvement in the environment over the existing conditions.</td>
<td>MT</td>
<td>ENG</td>
</tr>
<tr>
<td>e. Evaluate the feasibility of reusing gray water from the Scarborough Wastewater Treatment Facility.</td>
<td>MT</td>
<td>ENG</td>
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</tbody>
</table>

**Policy CSF8.2:** Implement and enforce the Narragansett Wastewater Management District.

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<tr>
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<tbody>
<tr>
<td>a. Support the Conservation Commission in the development of an educational program for OWTS maintenance.</td>
<td>ST</td>
<td>ENG, CC</td>
</tr>
<tr>
<td>b. Apply for SRF Program funds as needed to ensure a continuous funding resource for residents to upgrade OWTSs</td>
<td>OG</td>
<td>ENG, TC</td>
</tr>
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### Goal CSF9: Reduce solid waste and maximize recycling.

**Policy CSF9.1:** Encourage recycling town-wide to meet the State’s mandatory recycling rate currently set at 35% and total diversion rate of 50%.

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<tr>
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<tbody>
<tr>
<td>a. Revisit the calculation of recycling and diversion rates for South Kingstown and Narragansett at the Rose Hill Transfer Station.</td>
<td>ST</td>
<td>PW</td>
</tr>
<tr>
<td>b. Increase public outreach and local knowledge on the Town’s municipal residential recycling program.</td>
<td>ST</td>
<td>PW</td>
</tr>
<tr>
<td>c. Continue to build and enhance recycling opportunities associated with the Town’s residential recycling program.</td>
<td>ST</td>
<td>PW</td>
</tr>
<tr>
<td>d. Investigate the development of a local compost facility.</td>
<td>MT</td>
<td>PW</td>
</tr>
<tr>
<td>e. Continue to coordinate and develop diversion opportunities for residents, such as EcoDepots events to collect household hazardous wastes and collection of e-waste, as well as paper shredding and other specialized recycling opportunities.</td>
<td>OG</td>
<td>PW</td>
</tr>
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<td>Responsible Party</td>
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</tr>
<tr>
<td>f. Look for ways to increase recycling opportunities in municipal facilities, such as the School Department and Parks and Recreation sites.</td>
<td>OG</td>
<td>PW, PR, SD</td>
</tr>
<tr>
<td>g. Research ways to educate and incentivize commercial establishments to recycle, particularly large producers of recyclable materials.</td>
<td>MT</td>
<td>PW, EDC</td>
</tr>
<tr>
<td><strong>Policy CSF9.2: Continue to monitor obligations for the remediation efforts at the Rose Hill Regional Landfill and West Kingston/URI Disposal Area Landfill.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Maintain financial obligations, as directed under the federal Final Decent Decree, to reimburse the State of Rhode Island for the remediation and ongoing operation and maintenance of the Rose Hill Regional Landfill.</td>
<td>OG</td>
<td>TC</td>
</tr>
<tr>
<td>b. Maintain financial obligations, as directed under state mandate, for site remediation at the West Kingston/URI Disposal Area Landfill under the state landfill closure regulations.</td>
<td>OG</td>
<td>TC</td>
</tr>
<tr>
<td><strong>Goal CSF10: Manage the impacts of stormwater runoff and recognize the added benefits that can be gained from implementing a mix of gray and green stormwater infrastructure.</strong></td>
<td></td>
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<tr>
<td><strong>Policy CSF10.1: Reduce illicit discharges and non-point source pollutants in local waterways.</strong></td>
<td></td>
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</tr>
<tr>
<td>a. Implement Town’s Phase II Stormwater Permit and Stormwater Management Program Plan (SWMPP).</td>
<td>OG</td>
<td>ENG</td>
</tr>
<tr>
<td>b. As part of implementation, increase public outreach of the Town’s responsibilities under the Phase II permit and increase local knowledge about how residents and business owners can reduce pollutants in stormwater runoff.</td>
<td>ST</td>
<td>ENG</td>
</tr>
<tr>
<td>c. Implement stormwater infrastructure improvement projects as part of the Phase II compliance.</td>
<td>OG</td>
<td>ENG</td>
</tr>
<tr>
<td>d. Work with RIDOT to encourage the maintenance of storm drains on state roads in Narragansett, such as Route 108, Route 1, Sand Hill Cove Road, and the Galilee Escape Road.</td>
<td>OG</td>
<td>PW, ENG</td>
</tr>
<tr>
<td>e. Investigate the feasibility of establishing a stormwater utility district as a stable source of funding for stormwater permit compliance efforts.</td>
<td>LT</td>
<td>ENG</td>
</tr>
<tr>
<td><strong>Policy CSF10.2: Encourage the use of low-impact design (LID) techniques as a way to manage stormwater runoff and improve water quality.</strong></td>
<td></td>
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</tr>
<tr>
<td>a. Develop strategies to dispose of materials from maintenance of stormwater infrastructure, such as basins, swales, etc.</td>
<td>MT</td>
<td>ENG, PW</td>
</tr>
<tr>
<td>b. Consider and evaluate alternative approaches to “gray” infrastructure (pipes) such as LID techniques (bioswales, rain gardens, etc.) as part of upgrading the municipal stormwater infrastructure improvements.</td>
<td>MT</td>
<td>ENG</td>
</tr>
<tr>
<td><strong>Goal CSF11: Reduce energy consumption and encourage renewable energy use by both public and private users.</strong></td>
<td></td>
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<tr>
<td><strong>Policy CSF11.1: Increase energy efficiency of municipal buildings and operations to reduce energy consumption.</strong></td>
<td>OG</td>
<td>ENG, PW</td>
</tr>
<tr>
<td>a. Use the 2010 ESCO energy audit to continue to energy efficiency initiatives for municipal buildings and operations.</td>
<td>LT</td>
<td>ENG, TC, PW</td>
</tr>
<tr>
<td><strong>Policy CSF11.2: Increase renewable energy use for municipal buildings and operations.</strong></td>
<td>LT</td>
<td>ENG, TC</td>
</tr>
<tr>
<td>a. Evaluate the feasibility of municipally-managed renewable energy sources to power municipal buildings and operations in Narragansett (wind, solar, tidal), looking at possible locations, construction costs, maintenance and operations costs/needs.</td>
<td>LT</td>
<td>ENG, TC, PW</td>
</tr>
<tr>
<td>b. Work regionally with other Washington County communities to identify opportunities for investment in regional renewable energy projects.</td>
<td>LT</td>
<td>ENG, TC</td>
</tr>
<tr>
<td>c. Actively participate in state initiatives that are investigating and promoting renewable energy.</td>
<td>OG</td>
<td>ENG</td>
</tr>
<tr>
<td><strong>Policy CSF11.3: Provide opportunities for residents and business owners to be more energy efficient and increase the use of renewable energy.</strong></td>
<td>LT</td>
<td>CD, ENG</td>
</tr>
<tr>
<td>a. Direct/link residents and business owners to energy efficiency and energy conservation educational materials as well as technical and financial resources of state and federal government agencies and utilities.</td>
<td>ST</td>
<td>CD</td>
</tr>
<tr>
<td>b. Conduct a study on the feasibility of providing a municipally-managed residential weatherization program.</td>
<td>MT</td>
<td>CD</td>
</tr>
<tr>
<td>c. Draft zoning revisions and guidelines to allow for renewable energy infrastructure on private property.</td>
<td>MT</td>
<td>CD</td>
</tr>
</tbody>
</table>

**NATURAL HAZARDS**

Goal NH1: Guide land use development and administrative practices to avoid or minimize the effects of climate change, sea level rise and other natural hazards to people, infrastructure and property.

**Policy NH1.1: Monitor the implementation of the Narragansett Hazard Mitigation Plan.**

a. Review the Hazard Mitigation Plan every five years as required by the Rhode Island Emergency Management Agency and after major storm events to ensure the plan’s relevancy to changing local conditions. Update Hazard Mitigation Plan and Comprehensive Plan as appropriate. | MT | HM, CD, PB, TC |

b. Review hazard mitigation planning and projects at special municipal meetings as natural hazard events are anticipated, as needed, and scheduled trainings. | OG | HM, TM |

**Policy NH1.2: Protect critical public infrastructure that could be impacted by climate change, sea level rise and other natural hazards.**

a. Work with RIDOT to ensure the stability of the seawall along Ocean Road (Route 1A) and the structural integrity of Ocean Road as well as Boston Neck Road. | ST | ENG, PW |

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**Time Frame for Implementation:**

| ST | Short Term (within 3 years) |
| MT | Mid Term (3-10 years)       |
| LT | Long Term (10+ years)       |
| OG | On-going                    |

**Action**  |  **Time Frame**  |  **Responsible Party**  
---|---|---
| **Policy NH1.3: Minimize the risks to public and private property from climate change, sea level rise and other natural hazards.**  
| **a.** Evaluate and document new climate change and sea level data as they become available to monitor Town areas vulnerable to flooding and sea level rise.  | OG  | CD  
| **b.** Connect residents and business owners to information about climate change and sea level rise, and how their lives and property may be impacted in the long term.  | MT  | CD, EDC  
| **c.** Evaluate alternative strategies to reduce/mitigate risks to public and private properties that experience repetitive losses during storm events as well as areas vulnerable to sea level rise. Consider alternatives such as property acquisition, TDR, flood-proofing structures (e.g., retrofitting, elevation), or retreat.  | LT  | CD, TC, ENG, HM  
| **d.** Continue to evaluate alternatives and feasibility of beach replenishment at the Town Beach.  | OG  | ENG  

**TRANSPORTATION AND CIRCULATION**

**Goal T1: Promote safe and efficient traffic circulation throughout the Town’s transportation network.**

**Policy T1.1: Maintain existing infrastructure in a timely and cost-effective manner.**

| **a.** Continue to encourage and cooperate with RIDOT to maintain and improve State roadways in the Town. Clarify ownership and maintenance responsibilities of roads on the federal aid system.  | OG  | PW  
| **b.** Continue implementation of the multi-year pavement management program to maintain and rehabilitate local roadways. Consider expanding the management program to include other items.  | OG  | PW  
| **c.** Develop inventory of sidewalks and curb ramps and a plan for improvement program for deteriorated and non-ADA compliant locations.  | MT  | PW  
| **d.** Establish annual monitoring and maintenance of pavement markings, signage, and traffic control devices, including repair and replacement of signs, trimming of overgrown vegetation, cleaning, and repainting crosswalks, center lane, and edge lines including bike lanes, and symbols and miscellaneous markings.  | MT  | PW, TRB  

**Policy T1.2: Pursue improvement projects to address safety deficiencies and congested areas.**
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<tr>
<th>Action</th>
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<tbody>
<tr>
<td>a. Coordinate with RIDOT to identify improvement projects that address high-accident and congested locations, and aggressively pursue funding.</td>
<td>MT</td>
<td>CD, PW, ENG</td>
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<tr>
<td>b. Initiate other studies and/or safety audits to identify potential improvements for high-accident locations that are not part of ongoing or planned projects.</td>
<td>LT</td>
<td>CD, PW, ENG</td>
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<tr>
<td>c. Review recommendations of Pedestrian Safety Audit for the Pier Area and determine priorities for implementation.</td>
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<td>CD, PW, ENG</td>
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<tr>
<td>d. Encourage replatting and redesign of paper streets that do not meet current safety standards.</td>
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<tr>
<td>e. Explore one-way circulation conversion for Ocean Road and Boon Street, or expansion of the promenade on the east side of Ocean Road.</td>
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<td>CD, ENG, TC</td>
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<tr>
<td>f. Explore potential signal timing modifications, queue management in conjunction with RIDOT at targeted locations.</td>
<td>MT</td>
<td>CD, ENG, PW</td>
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<tr>
<td>g. Explore opportunities for shared driveways or service roads along Point Judith Road and Boston Neck Road.</td>
<td>OG</td>
<td>CD, PB</td>
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<tr>
<td>h. Pursue interconnections between subdivisions, where appropriate. Appropriate locations are those in which connectivity can be enhanced without detrimental impact in terms of cut-thru traffic or a change in use of subdivision roads.</td>
<td>OG</td>
<td>CD, PB, PW</td>
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</table>

**Policy T1.3:** Explore multimodal projects that complete connections and promote safe interactions between motor vehicles and pedestrians and bicyclists.

a. Explore and implement pedestrian and bicycle improvements at locations where high volumes of pedestrians are present, e.g., Narragansett Town Beach, Narragansett Towers, Boston Neck Road, Bonnet Shores, the intersection of Point Judith Road and Ocean Road, and all other major arterial intersections in order to connect bike and pedestrian desired lines. | ST         | CD, PW, ENG       |

b. Continue to pursue and utilize the Safe Routes to School program to improve non-motorized connections and access to school campuses. Prioritize pedestrian improvements at key locations within one mile of schools, including sidewalks, crosswalks, and curb ramps | OG         | CD, SD            |

**Goal T2:** Support a variety of transportation choices that contribute to a cleaner environment and a healthier community.

**Policy T2.1:** Integrate Complete Streets principles into all local transportation projects to better accommodate all users regardless of mode, age, or ability.

a. Adopt a Complete Streets policy that applies to all new and retrofit projects in the Town. | MT         | CD, PB, PW, ENG   |

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**Responsible Parties:**
- AHB Affordable Housing Board
- BI Building Inspector
- CC Conservation Commission
- CD Community Development
- EDC Economic Development Commission
- ENG Engineering Department
- EMA Emergency Management Agency
- FD Fire Department
- HC Historic Commission
- HM Hazard Mitigation Committee
- LB Library
- LCT Narragansett Land Conservancy Trust
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**Time Frame for Implementation:**
- ST - Short Term (within 3 years)
- MT - Mid Term (3-10 years)
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<tr>
<td>b. Provide information about the benefits of Complete Streets principles to the public and Town staff, and publicize successful projects that integrate the principles.</td>
<td>MT</td>
<td>CD</td>
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<tr>
<td>c. Continually monitor performance of transportation projects to evaluate their benefits and impacts</td>
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<td>CD</td>
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</table>

**Policy T2.2: Promote walking and biking as attractive, practical choices for recreation and every day trips.**

| a. Develop and implement a long-term sidewalk improvement program. | MT | CD, PW |
| b. Develop a comprehensive Town-wide pedestrian and bicycle network, consistent with state plans, that includes off-street paths, on-street bike lanes, shared lane markings, and signed routes. | MT | CD, PR |
| c. In conjunction with the Safe Routes to School program, develop and implement a public education program about bicycle safety and bicyclists’ and motorists’ rights and responsibilities. | MT | CD, SD |
| d. Identify potential locations for bike racks and pedestrian bench installations, and increase the numbers of these amenities at key locations. | ST | CD, PR, ENG, SD |
| e. Explore the potential for a community bicycle-sharing system, evaluating costs and possible public/private partnerships. | MT | CD |
| f. Consider the implementation of bike lanes and signage on Route 1A. | LT | CD, ENG, PW |
| g. Advocate for the William C. O’Neill Bike Path extension to Narragansett Town Beach that is currently on the state TIP. Identify other potential locations for bike path extensions within Narragansett as future TIP projects. | OG | CD, TC |

**Policy T2.3: Explore opportunities to expand access to high-quality transit service.**

| a. Work with RIPTA to provide adequate curbside and streetside facilities for RIPTA bus operations, including clearly marked bus stops and bus stop amenities that enhance rider comfort and safety. | OG | CD |
| b. Improve park and ride access to RIPTA bus service by coordinating with parking lot owners (e.g., Salt Pond Shopping Center) and with RIPTA to establish high-quality facilities for riders. | LT | CD |
| c. In conjunction with sidewalk programs, identify missing links in pedestrian infrastructure between bus stops and residential areas with high transit usage, and implement improvements. | MT | CD |
| d. Coordinate with RIPTA and RIDOT to identify and implement bus turnouts that balance the needs of bus operations with general traffic flow at appropriate locations. | MT | CD |

**Policy T2.4: Consider the land use-transportation connection for all future development decisions and plans in order to manage traffic demand and ensure multimodal access.**

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<tr>
<td>a. Require traffic impact studies for new developments. For large-scale developments, implement peer reviews of traffic studies to be paid for by developer to ensure accuracy and completeness of studies. Ensure that the project’s transportation mitigation is in scale with the size and consequential impact of the proposed project.</td>
<td>OG</td>
<td>CD, PB</td>
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<tr>
<td>b. Explore development impact fees or other mechanisms by which developers could contribute toward large-scale transportation improvements in lieu of providing specific infrastructure improvements as project mitigation.</td>
<td>MT</td>
<td>CD, PB</td>
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<tr>
<td>c. Implement appropriate land use controls and transportation design review standards to maintain the functional integrity of the existing road system. Review and update transportation design standards to incorporate complete street policies, and implement these changes into the land use controls.</td>
<td>MT</td>
<td>CD, PB</td>
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<tr>
<td>d. Consider livability issues in addition to mobility and safety issues when prioritizing transportation projects.</td>
<td>OG</td>
<td>CD, PB</td>
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<tr>
<td>e. Coordinate transportation improvements for the intersection of Point Judith Road (Route 108) and South Pier Road and the surrounding development with future land use recommendations, in order to improve safety and circulation throughout Caswell Corner. Explore the potential for connecting the existing driveway from South Pier Road to Point Judith Road to create a connection for enhanced circulation.</td>
<td>LT</td>
<td>CD, PB, ENG</td>
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<tr>
<td>f. Consider a study that will result in an access management plan for Boston Neck Road to establish policies that would ensure that new development and redevelopment do not degrade existing traffic conditions. Plan should review all modes and make recommendations to improve existing congestion conditions.</td>
<td>MT</td>
<td>CD, PB, ENG</td>
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**Goal T3: Develop a context-sensitive transportation network that enhances the unique characteristics of the Town’s neighborhoods and key attractions.**

**Policy T3.1: Ensure transportation projects are designed and constructed in harmony with the local community and preserve scenic, historic, and environmental values of the area.**

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<tr>
<td>a. Continue to designate appropriate roads as scenic and develop and implement standards to maintain the scenic quality of designated roads. Adopt regulations for alterations and construction in scenic ROWs to preserve scenic quality.</td>
<td>OG</td>
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<tr>
<td>b. Develop processes for identifying potential locations for traffic calming measures and for selecting appropriate measures based on the needs of selected locations.</td>
<td>MT</td>
<td>CD, PW, ENG</td>
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**Policy T3.2: Integrate transportation infrastructure in multidisciplinary “placemaking” efforts for individual districts and destinations.**

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<tr>
<td>a. Pursue transportation and streetscape improvements to Boon Street that enhance its village character.</td>
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<td>CD</td>
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<tr>
<td>b. Enhance pedestrian and bicycle amenities at the Pier, The Towers, and Town Beach.</td>
<td>LT</td>
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**Responsible Parties:**

- AHB Affordable Housing Board
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- CC Conservation Commission
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- EDC Economic Development Commission
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<tr>
<td><strong>Policy T3.3: Provide transportation infrastructure that supports the economic activity of the Town’s shopping and tourist areas. (See Policy T3.4)</strong></td>
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<tr>
<td>a. Consider selecting Ocean Road between the Town Beach and South Pier Road as a pilot location for enhanced traffic calming measures, including recommendations of the Pedestrian Safety Audit.</td>
<td>LT</td>
<td>CD, ENG</td>
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<tr>
<td>b. Evaluate potential parking management strategies for Galilee, Town Beach, and in the vicinity of the Pier to address perceived lack of parking supply.</td>
<td>MT</td>
<td>CD, TC, PR</td>
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<tr>
<td>c. Develop and implement transportation safety plans for large events such as firework displays, including alternative parking shuttle options.</td>
<td>ST</td>
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<tr>
<td>d. Develop trolley service for both Town Beach access and Town-wide services.</td>
<td>ST</td>
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<tr>
<td><strong>Policy T3.4: Ensure that development around the Port of Galilee supports its use as a state-owned commercial fishing port and intermodal terminal.</strong></td>
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<tr>
<td>a. Explore multimodal transportation improvements for Galilee, including shuttle service, seasonal RIPTA service and parking management in conjunction with the ferry service.</td>
<td>MT</td>
<td>CD, ENG, PW</td>
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<tr>
<td>b. Monitor internal circulation of heavy vehicles to ensure movement of freight (to and from the ferry terminal as well as to and from commercial fishing piers and surrounding support businesses) is accommodated and efficient.</td>
<td>OG</td>
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**HOUSING AND NEIGHBORHOODS**

**Goal H1 Maximize the benefits and minimize the costs of short-term residents without adding undue burdens to year-round residents and municipal resources.**

**Policy H1.1 Ensure a timely response to concerns related to student renter issues and a cooperative effort to develop resolutions.**

a. Evaluate current communication procedures to reach the public officials that administer municipal programs dealing with nuisances and local code violations. Determine any revisions, as needed, and work with town staff to implement revisions. | ST | PD, TC |

**Policy H1.2 Reduce the impacts of student renters on the quality of life in local neighborhoods.**

a. Evaluate municipal regulatory and programmatic approaches that are designed to address the impacts of student renters and their effectiveness. Consider new approaches that might include assigning police detail in specific neighborhoods on Friday and/or Saturday nights. | ST | PD, TC |

b. Investigate new ways to use the information in the existing rental property database. | ST | PD, TA |
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<tr>
<td>c. Continue to work with URI representatives to address neighborhood complaints associated with students through review of existing URI housing policies.</td>
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<td>PD, TM</td>
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**Policy H1.3 Ensure that seasonal rentals do not unduly strain public services.**

a. Evaluate and document the positive and negative impacts of seasonal rentals (both student rentals from September to May and vacationers from June to August) on public services and facilities. Consider impacts to local public services (such as police, fire and rescue, water, and sewer services) as well as the social and economic impacts to local businesses and year. | ST | CD, ENG, PW, PD, FD, TM, TC, TA, EDC |

b. Identify long-term public service and infrastructure needs that may result from seasonal rentals. Determine if these needs can be met through capital improvements or require outside funding resources. | MT | CD, ENG, PW, PD, FD, TM, TC, TA, EDC |

**Policy H1.4 Ensure that seasonal rentals meet local and state housing codes to maintain the health, safety, and welfare of occupants.**

a. Increase capacity to routinely inspect rental properties for housing code violations such as overcrowding, illegal parking and property maintenance. | OG | BI, PD, TC |

b. Consider the development of a Code Enforcement Task Force that evaluates progress towards improving living conditions in rental properties. | LT | BI, PD, TC |

**Policy H1.5 Maximize the benefits of seasonal rentals to the Town.**

a. Develop support from other communities and local legislatures for new state legislation that would allow municipalities to collect sales and use tax on seasonal rentals as appropriate. | LT | EDC, TA, TC |

**Goal H2 Protect the unique character of Narragansett’s neighborhoods.**

Policy H2.1 Promote high quality, energy-efficient residential design. (See Policy LU2.6)

Policy H2.2 Support residential infill and expansion that is sensitive to its surroundings and does not negatively impact a neighborhood’s character. (See Policies LU2.2 and LU2.8)

a. Conduct architectural surveys of specific older neighborhoods and build on historic surveys as needed. | ST | CD, PB, HC |

b. Review and update the Subdivision and Land Development Regulations to incorporate guidelines that ensure infill is compatible to the surrounding neighborhood. | MT | CD, PB |

**Goal H3 Provide residents with a high quality of life in safe, energy-efficient neighborhoods with many mobility options.**

Policy H3.1 Ensure that every neighborhood has high quality recreational opportunities.

a. Identify neighborhoods that do not have access to recreation or parks within a quarter mile (walking distance). Develop strategies to increase resources or establish links to access. | MT | CD, PR |

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<tr>
<td>b. Review and update the Subdivision and Land Development Regulations to increase recreation and/or open space.</td>
<td>ST</td>
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<tr>
<td><strong>Policy H3.2 Reduce the impacts to residential areas from neighboring, incompatible uses.</strong></td>
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<tr>
<td>a. Use the Greenbelt system to buffer residential areas from incompatible uses. (See Policy LU2.4).</td>
<td>MT</td>
<td>CD, PB, TC</td>
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<tr>
<td><strong>Policy H3.3 Provide sidewalks in neighborhoods, as appropriate.</strong></td>
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<tr>
<td>a. Update the Subdivision and Land Development Regulations to encourage sidewalks in appropriate neighborhoods.</td>
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<td>CD, PB</td>
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<tr>
<td>b. Consider payment in lieu for waivers, where funds are placed in a dedicated “sidewalk fund” to be used to construct/repair sidewalks in other areas of town with a need.</td>
<td>MT</td>
<td>CD, PB, TC</td>
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<tr>
<td>c. Evaluate neighborhoods for sidewalk installation. Prioritize those in close proximity to schools (see T2.2).</td>
<td>MT</td>
<td>CD, SD, ENG, PW</td>
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<tr>
<td><strong>Policy H3.4 Ensure that neighborhoods have walking and biking connections to community resources such as parks, open spaces, schools, employment centers, and commercial areas as well as other adjacent neighborhoods.</strong></td>
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<tr>
<td>a. Update the Subdivision and Land Development Regulations to encourage, where practicable, the creation of connections between neighborhoods as well as to commercial areas, schools, and recreational and open space resources.</td>
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<td>b. Identify the linkages (or lack of) between existing neighborhoods as well as to commercial areas, schools, and recreational and open space resources to identify opportunities for safe walking and bike routes.</td>
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<td>CD, SC, PR, PW</td>
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<tr>
<td>c. Apply for funding to build missing links.</td>
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<td><strong>Policy H3.5 Build links between neighborhoods and access to public transportation.</strong></td>
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<td>a. Coordinate with RIPTA and private transportation services as appropriate to increase accessibility to meet the need.</td>
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<tr>
<td><strong>Policy H3.6 Encourage residents to be more energy efficient.</strong></td>
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<tr>
<td>a. Partner with local organizations that offer home improvement assistance to increase awareness of these programs to improve energy efficiency of homes.</td>
<td>LT</td>
<td>CD</td>
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<tr>
<td>b. Consider establishing a municipal revolving loan program to replace heating systems, windows, exterior doors, etc.</td>
<td>LT</td>
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</tr>
<tr>
<td>c. Promote state and federal programs that offer tax credits for installing renewable energy technology (solar water heaters, residential-scale wind turbines, etc.) on residential properties.</td>
<td>LT</td>
<td>CD</td>
</tr>
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**Time Frame for Implementation:**
- ST - Short Term (within 3 years)
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<tbody>
<tr>
<td>d. Evaluate the feasibility of municipal tax credits for installing renewable energy technology (solar water heaters, residential-scale wind turbines, etc.) on residential properties.</td>
<td>LT</td>
<td>CD</td>
</tr>
<tr>
<td><strong>Goal H4 Ensure long-term community sustainability by promoting diverse housing opportunities that are equitable and affordable for residents of all ages and incomes.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Policy H4.1 Encourage year-round rentals through programmatic and regulatory approaches to build a stable, year-round population.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Evaluate the feasibility of municipal incentives to encourage property owners to rent to year-round tenants.</td>
<td>ST</td>
<td>TA, TC</td>
</tr>
<tr>
<td>b. Review the town’s current tax policy. (See Policy ED2.5)</td>
<td>ST</td>
<td>TA, TC</td>
</tr>
<tr>
<td><strong>Policy H4.2 Use regulatory approaches to develop low and moderate income housing to meet the 10% state mandate.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Revisit the Inclusionary Zoning ordinance to ensure that it is producing desired outcomes. Investigate using density bonuses to promote or allow for the development of affordable housing, except in areas designated by Rhode Island’s Coastal Resource Management Council (CRMC) of critical concern or self-sustaining lands zones.</td>
<td>MT</td>
<td>AHB, CD, PB</td>
</tr>
<tr>
<td>b. Revisit the proposed Lot Split Ordinance, which will allow existing “substandard lots of record” to be separated from the adjacent conforming lot if the substandard lot is developed with single family affordable housing.</td>
<td>MT</td>
<td>AHB, CD, PB</td>
</tr>
<tr>
<td>c. Consider incentives that would allow some existing affordable rental apartment buildings to be expanded, provided that some of the units are preserved as affordable family units.</td>
<td>ST</td>
<td>AHB, CD, PB</td>
</tr>
<tr>
<td>d. Revisit the Accessory Unit ordinance to make it more attractive to property owners.</td>
<td>ST</td>
<td>AHB, CD, PB</td>
</tr>
<tr>
<td>e. Evaluate the use of Transfer of Development Rights as a mechanism to create affordable housing.</td>
<td>MT</td>
<td>AHB, CD, PB</td>
</tr>
<tr>
<td><strong>Policy H4.3 Promote the construction, renovation and conversion of existing housing units as low and moderate income housing through local programs and incentives.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Draft incentives to promote redesign of older platted subdivisions to a new layout which is more sensitive to environmental constraints as a way to create a new moderate/market priced subdivision opportunities.</td>
<td>LT</td>
<td>CD</td>
</tr>
<tr>
<td>b. Seek funding from state and federal agencies for the construction of LMI housing, particularly as infill.</td>
<td>OG</td>
<td>CD, AHB, TC</td>
</tr>
<tr>
<td>c. Build reserves in the Affordable Housing Trust Fund and develop programs that actively use the fund as a financial tool to support the development of affordable housing within the Town. Identify partners, such as the NCLT, to assist in program implementation.</td>
<td>LT</td>
<td>CD, AHB, LCT</td>
</tr>
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d. Develop incentives that encourage property owners to consider rehabilitating and converting their existing rental apartment units into protected affordable housing.  
   Time Frame: ST  
   Responsible Party: CD, AHB

e. Meet, as needed, with state departments and local organizations to support existing group homes as well as promote the construction and or conversion of new special needs facilities.  
   Time Frame: OG  
   Responsible Party: CD, AHB

f. Investigate town properties that could be appropriate for the construction of affordable housing.  
   Time Frame: OG  
   Responsible Party: CD, AHB

g. Develop strategies to ensure that affordable housing development projects seeking a comprehensive permit through the State Affordable Housing Act have a predictable process and meet local environmental requirements and other community concerns.  
   Time Frame: MT  
   Responsible Party: CD, AHB

Policy H4.4 Support local and regional boards, organizations, and associations in the advocacy and development of low and moderate income housing in Narragansett.

a. Establish regular communication with the Narragansett Housing Authority.  
   Time Frame: OG  
   Responsible Party: CD, AHB

b. Identify ways the Narragansett Affordable Housing Trust can support the construction and rehabilitation of single family homes and multi-family buildings for both homeownership and rental opportunities for families.  
   Time Frame: ST  
   Responsible Party: CD, AHB

c. Participate in state and regional initiatives to advocate for affordable housing in Narragansett.  
   Time Frame: OG  
   Responsible Party: CD, AHB

d. Establish a supportive relationship with South County Community Action’s Action Community Land Trust.  
   Time Frame: ST  
   Responsible Party: CD, AHB

e. Collaborate with the Washington County Community Development Corporation in the creation of affordable housing in the region and Narragansett.  
   Time Frame: OG  
   Responsible Party: CD, AHB

f. Establish supportive relationships with other organizations providing home ownership and rental opportunities for low/moderate income individuals and families.  
   Time Frame: MT  
   Responsible Party: CD, AHB

HISTORIC, CULTURAL AND SCENIC RESOURCES
Goal HCS1 Protect the local historic and cultural resources to retain the Town’s sense of place and distinctive character.

Policy HCS1.1 Use local regulatory mechanisms to protect and enhance local historic and cultural resources.

a. Determine the expansion of regulated areas of historic district zones following appropriate research and identification of historic properties.  
   Time Frame: MT  
   Responsible Party: CD, HC, TC

b. Modify the Town’s Zoning Ordinances and Subdivision and Land Development Regulations to promote preservation and enhancement of historic and cultural resources.  
   Time Frame: MT  
   Responsible Party: CD, PB, TC
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<tr>
<td>c. Require placement of utilities underground for all state and municipal projects in areas that have been designated as historic or special districts and in designated scenic areas and areas with significant views.</td>
<td>LT</td>
<td>CD, HC, TC</td>
</tr>
<tr>
<td>d. Evaluate the use of TDR and other regulatory mechanisms or incentives to provide alternatives to the subdivision development of large historic estates and farms.</td>
<td>MT</td>
<td>CD, HC</td>
</tr>
<tr>
<td>e. Develop a stone wall protective ordinance.</td>
<td>MT</td>
<td>CD, PB, HC</td>
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Policy HCS1.2 Designate and, where appropriate, acquire important historic and cultural resources and plan for their protection.

| a. Nominate additional historic resources to the State and National Registers of Historic Places. | OG | HC, CD |
| b. Designate new historic districts for local historical district zoning which are comprised of the listed and eligible National Register resources and appropriate local resources which form a cohesive historic area. | MT | CD, PB, HC, TC |
| c. Develop and implement a public facility management plan which includes town-owned historic resources and provides for preservation of these resources. | LT | CD, HC |

Policy HCS1.3 Support programs of government agencies and non-governmental organizations in the protection of historic and scenic resources.

| a. Participate on the RI Advisory Commission on Historical Cemeteries to advocate the preservation of historical cemeteries. | OG | NHCC |
| b. Support the Narragansett Historical Society, the South County Museum and other not-for-profit organizations wishing to promote historic preservation activities. | OG | HC, CD |

Policy HCS1.4 Encourage private property owners to maintain the historic qualities of their properties.

| a. Investigate property tax incentives for the certified rehabilitation of designated historic properties (e.g. State historic preservation tax credit and/or local property tax waivers). | ST | CD, HC, TC |
| b. Promote a town-sponsored program for the purchase of historic facade easements which makes use of grant assistance from federal, state and foundation sources. Promote a voluntary easement donation program first, then expand to easement purchase when funding allows. | LT | CD, HC, TC |
| c. Promote a local revolving loan fund for certified rehabilitations of historic structures in cooperation with neighboring towns. | LT | CD, HC, TC |

Goal HCS2 Promote the sustainable use of historic and cultural resources to increase awareness and access.

Policy HCS2.1 Combine economic development initiatives with historic preservation and open space-recreation initiatives.

| a. Develop events and programs that highlight Narragansett’s historic resources and draw visitors to the area, particularly during the “off season.” | MT | HC, EDC |

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Policy HCS2.2 Increase access to and awareness of historic and cultural resources while still protecting their integrity and cultural significance.

- Consider publishing educational and promotional materials on Narragansett’s historic and scenic resources. A guide on successful historic rehabilitation design in Narragansett. **ST HC**
- Make connections between open spaces, historic districts, and the bike path through Narragansett using the abandoned Sea View Railroad rights-of-way as a spine and the William C. O’Neil Bike Path. **MT CD, PR, HC**

Goal HCS3 Enhance and protect the Town’s unique scenic views and vistas.

Policy HCS3.1 Maintain the scenic qualities of Narragansett through municipal programs.

- Acquire property by purchase or donation through active participation of the NLCT. **LT LCT**
- Scenic overlay district or scenic resource zone that could identify and protect important landscapes and structures that create distinctive views. **LT CD, PB**
- Designate scenic roads for protection from insensitive upgrade plans and develop a process to review town submissions. **MT CD, PB**

Policy HCS3.2 Encourage private property owners to maintain the scenic views across their properties.

- Promote the use of scenic and open space easements. **OG CD, PB**
- Promote a voluntary easement donation program first, then expand to easement purchase when funding allows. **MT CD, LCT, TC**

NATURAL RESOURCES

Goal NR1: Protect and enhance the environmental quality of the Town’s natural resources.

Policy NR1.1: Ensure that natural resources are protected from impacts associated with development. (See Policy LU 2.3)

- Provide economic incentives for owners not to develop, or limit development, in areas of critical environmental concern. **ST LCT, CD**
- Link Narragansett Land Conservancy Trust, RIDEM, and other conservation organizations with private property owners for acquisition of easements, fee simple donation, etc. **ST LCT, CD**

Policy NR1.2: Support federal, state, and local agencies as well as non-governmental organizations in protecting natural resources.

- Work with CRMC in monitoring coastal activities in and on Point Judith Pond and in the implementation of the Salt Pond SAMP. **OG CD**
- Establish partnerships with Narragansett Land Conservancy Trust, Friends of Canonchet, Narrow River Preservation Association, Audubon Society of Rhode Island, and The Nature Conservancy, among others **OG CD, LCT**

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Policy NR1.3: Protect water resources from non-point sources of pollution. (See Goal CSF10)

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<tr>
<td>a. Investigate methods to improve flushing in Narrow River.</td>
<td>LT</td>
<td>CD, ENG</td>
</tr>
<tr>
<td>b. Work with the Town of South Kingstown to support RIDEM in addressing the impacts of upstream contributions of non-point source pollution on Point Judith Pond.</td>
<td>OG</td>
<td>CD, ENG</td>
</tr>
<tr>
<td>c. Integrate stormwater management techniques and regulations identified in the RIDEM’s Stormwater Design Manual, as appropriate for Narragansett.</td>
<td>ST</td>
<td>CD, PB</td>
</tr>
<tr>
<td>d. Where socially and economically feasible, use natural systems (e.g. “green infrastructure”) to treat stormwater runoff.</td>
<td>OG</td>
<td>ENG</td>
</tr>
<tr>
<td>e. Play an active role with North Kingstown and South Kingstown in their efforts to protect groundwater resources that serve as drinking water supplies.</td>
<td>OG</td>
<td>ENG</td>
</tr>
<tr>
<td>f. Review water quality data developed each year by all sources available, including, but not limited to, the Salt Ponds Coalition, Narrow River Preservation Association and the URI Watershed Watch.</td>
<td>OG</td>
<td>ENG, CD</td>
</tr>
</tbody>
</table>

Goal NR2: Ensure that the Town’s natural resources contribute to the local quality of life.

Policy NR2.1: Ensure that residents and visitor share access to natural resources, where appropriate. (See Policy ROS1.2)

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<tr>
<td>a. Integrate public access into management plans of public lands, as appropriate.</td>
<td>LT</td>
<td>CC, LCT, CD</td>
</tr>
</tbody>
</table>

Goal NR3: Promote sustainable use of natural resources to support the local economy.

Policy NR3.1: Ensure the protection of natural resources while maintaining their accessibility for economic activities.

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<tr>
<td>a. Implement the Harbor Management Plan and update it periodically, but always within 10 years of any prior update, with new data, management techniques, and available technical and financial resources.</td>
<td>LT</td>
<td>HR, ENG</td>
</tr>
<tr>
<td>b. Develop short term approaches to reestablish and protect coastal dunes.</td>
<td>ST</td>
<td>ENG</td>
</tr>
<tr>
<td>c. Continue to evaluate and establish long-term reclamation strategies to address the impacts of erosion and sea level rise on the Town Beach. Pursue funding and resources to help implement feasible strategies.</td>
<td>MT</td>
<td>ENG</td>
</tr>
<tr>
<td>d. Initiate a plan to cooperate and work with the State to establish a long term resiliency plan for Boston Neck Road.</td>
<td>LT</td>
<td>Eng, CD</td>
</tr>
<tr>
<td>e. Monitor the beach profile for continued sand replenishment, consider a plan for dune replenishment, and consider new materials, such as pervious asphalt, for the parking lot surfaces.</td>
<td>ST</td>
<td>ENG</td>
</tr>
<tr>
<td>f. Analyze the impact that sea level rise may have on the need to elevate Town beach structures.</td>
<td>LT</td>
<td>ENG</td>
</tr>
<tr>
<td>g. Coordinate with the State to ensure adequate maintenance of the Seawall and Boston Neck Road.</td>
<td>OG</td>
<td>ENG</td>
</tr>
</tbody>
</table>
RECREATION AND OPEN SPACE

Goal ROS1: Provide residents and visitors with high-quality recreational facilities and open space resources that meet diverse needs and changing demands.

Policy ROS1.1: Provide neighborhood-based recreational facilities to all areas of Town. (See Policy H2.1)
Policy ROS1.2: Promote increased public access to the shore.

a. Use the Conservation Commission’s Adopt-a-Spot program to maintain and develop new coastal access sites and connect with historic and cultural resources. LT CD, HC, CC

b. Develop a rights-of-way plan that ranks those coastal access ways that require improvements. Develop plans for these areas and a schedule and estimated cost of improvements. MT CC, CD

c. Develop a public boat ramp in an area that provides safe and easy access to the ocean in order to relieve boating pressure on Narrow River and Point Judith Pond. LT CC, ENG, PR

d. Work with RIDOT, USFWS and others to improve public access to the Narrow River in the vicinity of the Sprague Bridge. ST PR, CD

e. Develop expanded facilities and programs only if all safety considerations have been addressed and implemented simultaneously with the Comprehensive Plan.

Policy ROS1.3: Increase opportunities for year-round use of recreational and open space resources as a way to increase economic opportunities.

a. Develop opportunities for more indoor and outdoor recreational activities and ensure there are no zoning barriers in districts where these uses would be appropriate. MT PR, CD

b. Incorporate economic development objectives into property management plans. LT PR, CD, EDC

c. Identify off-season recreational uses of recreation and open space resources, including activities and events, to promote use year-round. MT PR, EDC

d. Work with the Chamber of Commerce and South County Tourism Council to develop a geotourism package that highlights how residents and visitors to Narragansett and the region can experience what makes Narragansett unique. LT CD, PR, EDC

Policy ROS1.4: Meet the diverse recreational needs of residents of all ages through strategic planning and cooperative approaches.
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<td>a. Develop multi-use recreational complexes for new facilities rather than isolated single purpose recreational facilities.</td>
<td>LT</td>
<td>PR</td>
</tr>
<tr>
<td>b. Continue to work with the School Department to expand opportunities to share recreational resources.</td>
<td>OG</td>
<td>PR, SD</td>
</tr>
<tr>
<td>c. Continue coordination with area arts organizations, museums, historical societies, and other interest groups for programming, gymnasium and other recreational needs.</td>
<td>MT</td>
<td>PR, HC</td>
</tr>
<tr>
<td>d. Work with adjacent towns and URI to explore the need and feasibility for a regional sports complex with pools, ice rink, gymnasium, track, etc.</td>
<td>MT</td>
<td>PR</td>
</tr>
<tr>
<td>e. Complete a master plan for the Middlebridge property.</td>
<td>MT</td>
<td>TC, PR, CD</td>
</tr>
<tr>
<td><strong>Policy ROS 1.5: Work with governmental and non-governmental partners to ensure that local recreational and open space needs are met while still satisfying demands of regional visitors.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Coordinate with the State of Rhode Island and South County Tourism Council in recreational planning to ensure that state policies are developed in concert with town policies.</td>
<td>OG</td>
<td>PR</td>
</tr>
<tr>
<td>b. Support the establishment of a regional nonprofit South County Land Trust.</td>
<td>LT</td>
<td>PR, TC, LCT</td>
</tr>
<tr>
<td>c. Establish communication with federal and state officials regarding the potential town acquisition of federally-owned and state-owned open space and recreational lands as they become available.</td>
<td>ST</td>
<td>LCT, CD, PR, TC</td>
</tr>
<tr>
<td><strong>Goal ROS2: Promote the development and acquisition of recreational facilities and open space resources as an integrated system.</strong></td>
<td></td>
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</tr>
<tr>
<td><strong>Policy ROS 2.1: Link parks, open spaces, scenic points, adopt-a-spots and overlooks with the Town’s circulation system of walkways, trail systems, and bike paths. (See Policy HCS2.2)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Identify gaps between resources and neighborhoods. (See Policy H2.1)</td>
<td>MT</td>
<td>PR, CD</td>
</tr>
<tr>
<td>b. Identify and secure funding to build connections.</td>
<td>MT</td>
<td>CD, PR, TC</td>
</tr>
<tr>
<td>c. Increase bike safety through bike path development, striping, signage and, where possible, roadway shoulder improvements. (See Policy T2.2 b)</td>
<td>MT</td>
<td>ENG</td>
</tr>
<tr>
<td>d. Continue the planning and implementation of recreational trails town-wide.</td>
<td>OG</td>
<td>PR, CD</td>
</tr>
<tr>
<td><strong>Policy ROS 2.2: Use a variety of regulatory and programmatic approaches that promote the dedication and acquisition of park land, natural areas, and open space. (See Policy LU2.4)</strong></td>
<td></td>
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</tr>
<tr>
<td>a. Encourage the dedication of open space and recreational lands in new, larger subdivision approvals with a reasonable and legally defensible district based recreational land/fee assessment.</td>
<td>OG</td>
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Narragansett Comprehensive Plan *Action Plan* - 28 -  
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<td>b. Promote the use of the Planned Residential District floating zone and cluster zoning as a means to guide new subdivision development to preserve the natural areas that are integrated with resources on adjacent properties.</td>
<td>OG</td>
<td>PB, CD</td>
</tr>
<tr>
<td><strong>Policy ROS 2.3: Support municipal efforts, including those of the Narragansett Land Conservancy Trust, in its endeavors to acquire and manage historic, cultural, recreation and open space properties.</strong></td>
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</tr>
<tr>
<td>a. Use the NLCT to promote a voluntary easement donation program, expanding to easement purchase when the land warrants and funding allows.</td>
<td>ST</td>
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<tr>
<td>b. Acquire historic and open space easements through the NLCT.</td>
<td>OG</td>
<td>LCT</td>
</tr>
<tr>
<td>c. Develop programs that enable the Town to purchase agricultural lands or their development rights.</td>
<td>MT</td>
<td>CD, LCT, TC</td>
</tr>
<tr>
<td>d. Develop incentives that encourage voluntary gifts of conservation easements that protect current private open space lands, including but not limited to, those registered with the Farm, Forest and Open Space Program.</td>
<td>MT</td>
<td>CD, LCT</td>
</tr>
<tr>
<td>e. Catalogue restrictive easements and covenants on open space lands within new and existing developments so that an easily accessed record of open space dedications is retained and available to decision makers and the public.</td>
<td>MT</td>
<td>TA, LCT</td>
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<td>f. Monitor acquired easements with support from NLCT.</td>
<td>OG</td>
<td>TA, LCT</td>
</tr>
<tr>
<td>g. Encourage the acquisition or preservation of marshlands through easements.</td>
<td>MT</td>
<td>LCT, CD, PB</td>
</tr>
<tr>
<td><strong>Policy ROS 2.4: Maintain recreational and open space resources to ensure their functionality and usefulness.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Develop master plans for the Town’s major recreational and open space properties.</td>
<td>LT</td>
<td>CD, PR</td>
</tr>
<tr>
<td>b. Implement a CIP to schedule in a phased and systematic manner acquisition and development of recreational and open space facilities within the financial capabilities of the Town. Integrated action items of property master plans.</td>
<td>OG</td>
<td>PR</td>
</tr>
<tr>
<td>c. Coordinate with all town departments to clarify roles and responsibilities and create a long range program for the development, use and maintenance of existing and proposed new facilities.</td>
<td>ST</td>
<td>PR, PW, SD, CD</td>
</tr>
<tr>
<td>d. Develop partnerships with local community groups and any appropriate boards and commissions to identify cooperative efforts in the maintenance of recreational sites.</td>
<td>ST</td>
<td>PR, SD</td>
</tr>
<tr>
<td>e. Review existing municipal property management plans to document implementation, ensure consistency with the comprehensive plan, and update as needed to meet changing needs.</td>
<td>ST</td>
<td>CD, PR</td>
</tr>
</tbody>
</table>

**Responsible Parties:**
- AHB Affordable Housing Board
- BI Building Inspector
- CC Conservation Commission
- CD Community Development
- EDC Economic Development Commission
- ENG Engineering Department
- EMA Emergency Management Agency
- FD Fire Department
- HC Historic Commission
- HM Hazard Mitigation Committee
- LB Library
- LCT Narragansett Land Conservancy Trust
- PB Planning Board
- PD Police Department
- PR Parks and Recreation Department
- PW Public Works Department
- SD Narragansett School Department
- TA Tax Assessor Office
- TC Town Council
- TM Town Manager
- TWRS Towers Committee
- ZB Zoning Board

**Time Frame for Implementation:**
- ST - Short Term (within 3 years)
- MT - Mid Term (3-10 years)
- LT - Long Term (10+ years)
- OG - On-going