



## 9.5 TOWNSHIP OF DENNIS

This section presents the jurisdictional annex for the Township of Dennis. The annex includes a general overview of the Township of Dennis; an assessment of the Township of Dennis’s risk, vulnerability, and mitigation capabilities; and a prioritized action plan to implement prior to a disaster to reduce future losses and achieve greater resilience to natural hazards.

### 9.5.1 Staff and Local Stakeholder Involvement in Annex Development

The Township of Dennis followed the planning process described in Section 3 (Planning Process). This annex was developed over the course of several months with input from many jurisdiction representatives. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization. The coronavirus pandemic resulted in a strain on local resources that limited some participation, but every effort was made to connect with staff and stakeholders and gain diverse input. Due to safety precautions, all meetings were held virtually. The following table summarizes who participated and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.5-1. Hazard Mitigation Planning Team and Contributors**

Primary Point of Contact		Alternate Point of Contact
Name / Title: John Berg, Emergency Management Coordinator Address: 571 Petersburg Road, P.O. Box 204, Dennisville, NJ 08214 Phone Number: (609) 231-8129 Email: <a href="mailto:grandpopjb@gmail.com">grandpopjb@gmail.com</a>		Name / Title: Jessica Bishop, Administrator Address: 571 Petersburg Road, P.O. Box 204, Dennisville, NJ 08214 Phone Number: (609) 861-9700x225 Email: <a href="mailto:jbishop@dennistwp.org">jbishop@dennistwp.org</a>
NFIP Floodplain Administrator		
Name / Title: Michael Morano, Construction Official Address: 571 Petersburg Road, P.O. Box 204, Dennisville, NJ 08214 Phone Number: (609) 861-9705 Email: <a href="mailto:eileen@dennistwp.org">eileen@dennistwp.org</a>		
Name	Title	Method of Participation
John Berg, Emergency Management Coordinator	John Berg, Emergency Management Coordinator	Primary point of contact, provided data and impact information, contributed to mitigation strategy, reviewed and signed off on annex
Jessica Bishop	Administrator	Alternate point of contact, provided data and impact information, reviewed and signed off on annex
Michael Morano	Construction Official	NFIP Floodplain Administrator, provided data and impact information
John C. Gibson, P.E.	Engineer	Reviewed and signed off on annex
Will Neely	Chief, Fire Department	Reviewed and signed off on annex

### 9.5.2 Jurisdiction Profile

The Township of Dennis is located within the northern section of Cape May County, New Jersey. It is bounded on the north by the Borough of Woodbine and Township of Upper, on the east by portions of the





Township of Upper, the City of Sea Isle City and the Atlantic Ocean, on the south by the Township of Middle, and on the west by Cumberland County, New Jersey and the Delaware Bay. It is part of the Ocean City Metropolitan Statistical Area. The township included the Dennis Creek community, the East and West Creek regions, the Southern portion of the Cedar Swamp, and the Seashore region between Townsend Inlet and Ludlam’s Bay. Today Dennis Township includes the communities of Belleplain, Clermont, Dennisville, Eldora, Ocean View, South Dennis and South Seaville.

According to the U.S. Census, the 2010 population for the Township of Dennis was 6,467. The estimated 2018 population was 6,244, a 3.4 percent decrease from the 2010 Census. Data from the 2018 U.S. Census American Community Survey indicate that 4.6 percent of the population is 5 years of age or younger and 19.9 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

### 9.5.3 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to understanding a jurisdiction’s overall risk to its hazards of concern. Table 9.5-2 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development. Figure 9.5-1 at the end of this annex illustrates the geographically-delineated hazard areas and the location of potential new development.

**Table 9.5-2. Recent and Expected Future Development**

Type of Development	2015		2016		2017		2018		2019	
<b>Number of Building Permits for New Construction Issued Since the Previous HMP</b>										
	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>
Single and Two-Family Units	9	N/A	10	N/A	11	N/A	7	N/A	7	N/A
Multi-Family	0	N/A	0	N/A	0	N/A	0	N/A	0	N/A
Other (commercial, mixed-use, etc.)	0	N/A	0	N/A	2	N/A	1	N/A	4	N/A
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development		
<b>Recent Major Development and Infrastructure from 2015 to Present</b>										
None identified										
<b>Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years</b>										
Hawks Ridge	Residential	19		Blk 121, Lots 21.01, 21.02, 22		None		Construction beginning		

\* Only location-specific hazard zones or vulnerabilities identified.

The Township does not have the capability to identify the number of permits that have been issued within the SFHA

### 9.5.4 Capability Assessment

The Township of Dennis performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Section 6 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. This section summarizes the following findings of the assessment:



- An assessment of planning, legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.
- The community’s adaptive capacity.
- Information on National Flood Insurance Program (NFIP) compliance.

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of this planning effort, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress in plan integration. Areas with current mitigation integration are summarized in Capability Assessment (Section 9.5.4). The Township of Dennis identified specific integration activities that will be incorporated into municipal procedures are included in the updated mitigation strategy.

**PLANNING, LEGAL AND REGULATORY CAPABILITY**

The table below summarizes the legal and regulatory tools that are available to the Township of Dennis and where hazard mitigation has been integrated.

Table 9.5-3. Planning, Legal and Regulatory Capability

	Do you have this? (Yes/No)	Authority that enforces (Federal, State, Regional, County, Local)	Is this State Mandated?	Have aspects of this been integrated into your mitigation plan? If yes- how? Describe in comments	If no - can it be a mitigation action? If yes, add Mitigation Action #.
<b>Codes, Ordinances, &amp; Requirements</b>					
<b>Building Code</b>	Yes	State & Local	Yes	No	No
<i>Comment:</i>					
<ul style="list-style-type: none"> <li>• State mandated on local level under NJAC 5:23-3.14. International Building Code – New Jersey Edition, 2018, NJAC 5:24-3.14 Adopted 9/3/2019 (with NJ edits dated March 14, 2020 coming soon)</li> <li>• Construction Code, Uniform, Chapter 80, adopted the Township Committee, 3-14-1977 &amp; subsequently revised. There is hereby established in the Township of Dennis a State Uniform Construction Code enforcing agency to be known as the "Department of Construction Inspection," consisting of a Construction Official, a Building Subcode Official, a Plumbing Subcode Official, an Electrical Subcode Official, a Fire Protection Subcode Official. The Construction Official shall be the chief administrator of the enforcing agency.</li> </ul>					
<b>Zoning Code</b>	Yes	State & local	Yes – if municipality has a Planning Board	Yes	-
<i>Comment:</i>					
<ul style="list-style-type: none"> <li>• State permissive on local level. Per State of NJ Municipal Land Use Law (MLUL) L. 1975, s. 2, eff Aug 1, 1976, 40-55D-62: 49. Power to zone, requires all jurisdictions to have current zoning and other land development ordinances after the planning board has adopted the land use element and master plan.</li> <li>• Zoning, Chapter 185, adopted by the Township Committee, August 12, 1996 with subsequent amendments. The purpose of this chapter is to establish a pattern for the use of land and buildings in the Township of Dennis, based on the latest updated Master Plan for the Township of Dennis and enacted in order to promote and to protect the public health, safety, comfort, convenience, and general welfare of the people.</li> <li>• More specific goals of this Chapter are to protect against hazards; conserve the taxable value of land and preserve open space and natural features; promote orderly development of the Pinelands Area so as to preserve and protect the significant and unique</li> </ul>					



Table 9.5-3. Planning, Legal and Regulatory Capability

	Do you have this? (Yes/No)	Authority that enforces (Federal, State, Regional, County, Local)	Is this State Mandated?	Have aspects of this been integrated into your mitigation plan?	
				If yes-how? Describe in comments	If no - can it be a mitigation action? If yes, add Mitigation Action #.
<p>natural, ecological, agricultural, archaeological, historic, scenic, cultural and recreational resources of the Pinelands; and implement the goals and objectives of the Pinelands Comprehensive Management Plan.</p> <ul style="list-style-type: none"> <li>This Chapter encourages clustering as a method of developing residential dwellings that will preserve desirable open spaces, conservation areas and floodplains by permitting the reduction of lot sizes and certain other regulations hereinafter stated without increasing the number of lots in the total area to be developed.</li> </ul>					
<b>Subdivisions</b>	Yes	State, County & Local	Yes – if municipality has a Planning Board	Yes	-
<p><b>Comment:</b></p> <ul style="list-style-type: none"> <li>P.L.1975, c.291 (C.40:55D-47): 40:55D-37. Grant of power; referral of proposed ordinance; county planning board approval a. The governing body may by ordinance require approval of subdivision plats by resolution of the planning board as a condition for the filing of such plats with the county recording officer and approval of site plans by resolution of the planning board as a condition for the issuance of a permit for any development, except that subdivision or individual lot applications for detached one or two dwelling-unit buildings shall be exempt from such site plan review and approval; provided that the resolution of the board of adjustment shall substitute for that of the planning board whenever the board of adjustment has jurisdiction over a subdivision or site plan pursuant to subsection 63b. of this act . Dictated by the Municipal Land Use Law. NJ Statute 40:27-6.2 - the board of freeholders of any county having a county planning board shall provide for the review of all subdivisions of land within the county by said county planning board and for the approval of those subdivisions affecting county road or drainage facilities as set forth and limited hereinafter in this section.</li> <li>Subdivision of Land, Chapter 165, adopted by the Township Committee, 8-28-1975 &amp; amended 7-15 2013. The purpose of this chapter shall be to provide rules, regulations and standards to guide land subdivision in the Township of Dennis and to implement the goals and objectives of the Pinelands Comprehensive Management Plan. It shall be administered to ensure orderly growth and development, the conservation, protection and proper use of land and adequate provisions for circulation, utilities and services in order to assure and promote the comfort, health, safety, convenience and general welfare of the municipality.</li> <li>Since areas of the Township are in the Pinelands, a certificate of filing of an application for minor or major development is required from the Pinelands Commission issued pursuant to N.J.A.C. 7:50-4.34 or, until January 14, 1991, evidence of prior approval from the Pinelands When prior approval for the development has been granted by an approval agency, evidence of Pinelands Commission review pursuant to § 185-49E of Chapter 185, Zoning, Development Review Board or the Pinelands Commission pursuant to the Interim Rules and Regulations</li> </ul>					
<b>Stormwater Management</b>	Yes	State & Local	Yes	Yes	-
<p><b>Comment:</b></p> <ul style="list-style-type: none"> <li>See Title 7 of the NJ Administrative Code, N.J.A.C. 7:8</li> <li>Stormwater Control, Chapter 163, adopted by the Township Committee, 04-04-2006 and updated 9/2020. As required by this Chapter, flood control, groundwater recharge, and pollutant reduction through nonstructural or low impact techniques shall be explored before relying on structural BMPs. Structural BMPs should be integrated with nonstructural stormwater management strategies and proper maintenance plans. Nonstructural strategies include both environmentally sensitive site design and source controls that prevent pollutants from being placed on the site or from being exposed to stormwater.</li> <li>Stormwater management measures shall avoid adverse impacts of concentrated flow on habitat for threatened and endangered species as documented in the Department Landscape Project or Natural Heritage Database established under N.J.S.A. 13:1B-15.147 through 15.150, particularly <i>Helonias bullata</i> (swamp pink) and/or <i>Clemmys muhlenbergi</i> (bog turtle).</li> <li>To the maximum extent practicable, the standards in Section 163-4F. and G. shall be met by incorporating nonstructural stormwater management strategies set forth at Section 163-4E. into the design.</li> <li>A written and graphic description of the natural and manmade features of the site and its environs is required. This description should include a discussion of soil conditions, slopes, wetlands, waterways and vegetation on the site. It should be noted that the regulations vary according to a development's location with respect to the Pinelands.</li> <li>The Township also has Storm Drains, Chapters 162A &amp; B to address stormwater.</li> <li>The Township works to minimize off-site storm water runoff by encouraging the use of best management practices which protect the character of the natural drainage systems.</li> </ul>					
<b>Post-Disaster Recovery</b>	No	-	No	-	-
<p><b>Comment:</b></p>					
<b>Real Estate Disclosure</b>	Yes	State, Division of Consumer Affairs	Yes	No	-



Table 9.5-3. Planning, Legal and Regulatory Capability

	Do you have this? (Yes/No)	Authority that enforces (Federal, State, Regional, County, Local)	Is this State Mandated?	If yes-how? Describe in comments	Have aspects of this been integrated into your mitigation plan?
					If no - can it be a mitigation action? If yes, add Mitigation Action #.
<p><b>Comment:</b> N.J.A.C. 13:45A-29.1 - Before signing a contract of sale, all purchasers must receive a New Jersey Public Offering Statement (POS) approved by the New Jersey Real Estate Commission. The POS provides information such as estimated completion dates for improvements, fees for services and amenities, the type of title and ownership interest being offered, its proximity to hospitals, schools, fire and police, as well as any hazards, risks or nuisances in or around the subdivision.</p> <ul style="list-style-type: none"> <li>Section 105-1.3 of the Township's Flood Damage Prevention Ordinance 'Statement of Purpose' has a provision to ensure that potential buyers are notified that property is in an area of special flood hazard.</li> </ul>					
<b>Growth Management</b>	Yes	State & Local	Yes – if municipality has a Planning Board	Yes	-
<p><b>Comment:</b></p> <ul style="list-style-type: none"> <li>State Mandated on a municipal level. See Zoning Ordinance; Also - Plan Endorsement Process via the State Development &amp; Redevelopment Plan provides for the delineation of Growth Areas and Environs; Use of the endorsed plans in the implementation of state environmental regulations makes the Plan Endorsement process a growth management strategy.</li> <li>Since areas of the Township are in the Pinelands District, the goals and objectives of the Pinelands Comprehensive Management Plan shall be administered to ensure orderly growth and development and the conservation, protection and proper use of land. This is a form of a Growth Management, in addition to traditional Zoning.</li> <li>Flood Plan is included in the site plan and is reviewed by the Alternate Engineer.</li> </ul>					
<b>Site Plan Review</b>	Yes	Local	Yes – if municipality has a Planning Board	Yes	-
<p><b>Comment:</b></p> <ul style="list-style-type: none"> <li>Dictated by the Municipal Land Use Law which sets forth minimum requirements for plans, etc., timeframes for development review. NJ Statute 40:27-6.2: The board of freeholders of any county having a county planning board shall provide for the review of all subdivisions of land within the county by said county planning board and for the approval of those subdivisions affecting county road or drainage facilities as set forth and limited hereinafter in this section. 40:27-6.10 In order that county planning boards shall have a complete file of the planning and zoning ordinances of all municipalities in the county, each municipal clerk shall file with the county planning board a copy of the planning and zoning ordinances of the municipality in effect on the effective date of this act and shall notify the county planning board of the introduction of any revision or amendment of such an ordinance which affects lands adjoining county roads or other county lands, or lands lying within 200 feet of a municipal boundary, or proposed facilities or public lands shown on the county master plan or official county map. Such notice shall be given to the county planning board at least 10 days prior to the public hearing thereon by personal delivery or by certified mail of a copy of the official notice of the public hearing together with a copy of the proposed ordinance.</li> <li>Site plan review is conducted by the Alternate Engineer.</li> </ul>					
<b>Environmental Protection</b>	Yes	Local	No	Yes	-
<p><b>Comment:</b></p> <ul style="list-style-type: none"> <li>Environmental Protection is carried out locally by Code Enforcement.</li> <li>Environmental Commission, Chapter 17, adopted by the Township Committee, 03-04-2014. While this Chapter does not provide specific environmental protection standards, it does create an Environmental Commission, having certain powers and duties, including: <ul style="list-style-type: none"> <li>It shall keep an index of all open areas, publicly or privately owned, including open marshlands, swamps and other wetlands, in order to obtain information on the proper use of such areas, and it may from time to time recommend to the Consolidated Land Use Board plans and programs for inclusion in the Township Master Plan and for the development and use of such areas.</li> <li>The Commission shall review each application and may provide its advice to the Consolidated Land Use Board.</li> <li>The Commission may study and make recommendations concerning open space preservation, water resources management, air pollution control, solid waste management, noise control, soil and landscape protection, environmental appearance, marine resources and protection of flora and fauna.</li> <li>The Commission may, subject to the approval of the Township Committee, acquire property, both real and personal, in the name of the township by gift, purchase, grant, bequest, devise or lease for any of its purposes and shall administer the same for such purposes subject to the terms of the conveyance or gift.</li> </ul> </li> </ul>					
<b>Flood Damage Prevention</b>	Yes	State & local	Yes	Yes	-



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<b>Comment:</b>					
<ul style="list-style-type: none"> <li>The NJ State Law Flood Area Control Act (N.J.S.A. 58:16A-52) and the National Flood Control Act of 1968 (NFIP) are state and federal acts to support minimization of flood losses. They do not require local adoption but as enforced by the NJDEP, the floodplain ordinances of each municipality must be reviewed for compliance with these regulations. In addition, participation in the NFIP requires a floodplain ordinance. Regulations for the Flood Control Hazards Act were adopted in 2007 and amended effective June 20, 2016.</li> <li>Flood Damage Prevention, Chapter 105, adopted by the Township Committee, as amended in its entirety 08-22-2017. It is the purpose of this chapter to promote the public health, safety, and general welfare, and to minimize public and private losses due to flood conditions in specific areas accomplished by; a) Restricting or prohibiting uses which are dangerous to health, safety, and property due to water or erosion hazards, or which result in damaging increases in erosion or in flood heights or velocities; b) Requiring that uses vulnerable to floods including facilities which serve such uses, be protected against flood damage at the time of initial construction; c) Controlling the alteration of natural floodplains, stream channels, and natural protective barriers, which help accommodate or channel flood waters; d) Controlling filling, grading, dredging, and other development which may increase flood damage; and, e) Preventing or regulating the construction of flood barriers which will unnaturally divert flood waters or which may increase flood hazards in other areas.</li> <li>This Chapter requires 2 feet of freeboard for regulated residential and nonresidential improvements in a SFHA. Porous paving has also been required in appropriate locations.</li> </ul>					
Wellhead Protection	No	-	No	-	-
<b>Comment:</b>					
Emergency Management	No	-	No	-	-
<b>Comment:</b>					
Climate Change	No	-	No	-	-
<b>Comment:</b>					
Disaster Recovery Ordinance	No	-	No	-	-
<b>Comment:</b>					
Disaster Reconstruction Ordinance	No	-	No	-	-
<b>Comment:</b>					
Other	No	-	No	-	-
<b>Comment:</b>					
<b>Planning Documents</b>					
Comprehensive / Master Plan	Yes	Local	Yes	Yes	-
<b>Comment:</b>					
<ul style="list-style-type: none"> <li>2018 Revised NJ Statute 40:27-2; the county planning board shall make and adopt a master plan for the physical development of the county. The master plan of a county, with the accompanying maps, plats, charts, and descriptive and explanatory matter, shall show the county planning board's recommendations for the development of the territory covered by the plan, and may include, among other things, the general location, character, and extent of streets or roads, viaducts, bridges, waterway and waterfront developments, parkways, playgrounds, forests, reservations, parks, airports, and other public ways, grounds, places and spaces; the general location and extent of forests, agricultural areas, and open-development areas for purposes of conservation, food and water supply, sanitary and drainage facilities, or the protection of urban development, and such other features as may be important to the development of the county. The county planning board shall encourage the co-operation of the local municipalities within the county in any matters whatsoever which may concern the integrity of the county master plan and to advise the board of chosen freeholders with respect to the formulation of development programs and budgets for capital expenditures. Per State of NJ Municipal Land Use Law (MLUL) L. 1975, s. 2, eff Aug 1, 1976 40:55D-28 provides the required components of a municipal Master Plan and requires that each municipality prepare a master plan and update it every 10 years. Further, all zoning ordinances must be consistent with the Master Plan or will not be benefitted from a presumption of validity.</li> <li>Master Plan – Land Use Plan, Township of Dennis, Adopted by the Planning Board on 12-05-1012.</li> </ul>					



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<ul style="list-style-type: none"> <li>Goal #5 of the Master Plan is to protect sensitive environmental areas from inappropriate development and to provide comprehensive protection for a broad range of natural resources. This appears to be the only goal directly related to environmental preservation and protection.</li> </ul>					
<b>Capital Improvement Plan</b>	Yes	Local	No	Yes	2021-Dennis-005
<b>Comment:</b> <ul style="list-style-type: none"> <li>Capital improvement program 2020. Total capital expenditures this year do not exceed \$25,000, including appropriations for Capital Improvement Fund, Capital Line items and Down Payments on Improvements. No bond ordinances are planned this year.</li> <li>A multi-year list of planned capital projects was provided, including the current year. The only Capital funded Project with a flood prevention aspect in the 2024 planned acquisition of a Drain Vac Truck.</li> </ul>					
<b>Disaster Debris Management Plan</b>	No	-	No	-	2021-Dennis-006
<b>Comment:</b>					
<b>Floodplain or Watershed Plan</b>	No	-	No	-	-
<b>Comment:</b>					
<b>Stormwater Management Plan</b>	Yes	State & Local	Yes	Yes	-
<b>Comment:</b> <ul style="list-style-type: none"> <li>The Stormwater Management rules (N.J.A.C. 7:8) rules were published in the February 2, 2004 NJ Register. These rules set forth the required components of regional and municipal stormwater management plans and establish the stormwater management design and performance standards for new (proposed) development. The design and performance standards for new development include groundwater recharge, runoff quantity controls, and runoff quality controls. The rules emphasize, as a primary consideration, the use of nonstructural stormwater management techniques including minimizing disturbance, minimizing impervious surfaces, minimizing the use of stormwater pipes, preserving natural drainage features, etc. The rules also set forth requirements for groundwater recharge, stormwater runoff quantity control, stormwater runoff quality control, and the prohibition of major development to be located within or to discharge runoff from the major development into a 300-foot riparian zone without prior authorization from the Department under the Flood Hazard Area Control Act Rules, N.J.A.C. 7:13.</li> <li>Stormwater Pollution Prevention Plan, dated 12-01-2018</li> </ul>					
<b>Stormwater Pollution Prevention Plan</b>	Yes	State & Local	Yes	Yes	-
<b>Comment:</b> <ul style="list-style-type: none"> <li>The Phase II New Jersey Pollutant Discharge Elimination System Stormwater Regulation Program (NJPDES) rules (N.J.A.C. 7:14A) were published in the February 2, 2004, NJ Register. These NJPDES rules are intended to address and reduce pollutants associated with existing stormwater runoff. The NJPDES rules establish a regulatory program for existing stormwater discharges as required under the Federal Clean Water Act. These NJPDES rules govern the issuance of permits to entities that own or operate small municipal separate storm sewer systems, known as MS4s. Under this program, permits must be secured by municipalities, certain public complexes such as universities and hospitals, and State, interstate and federal agencies that operate or maintain highways. The permit program establishes the Statewide Basic Requirements that must be implemented to reduce nonpoint source pollutant loads from these sources. The Statewide Basic Requirements include measures such as: the adoption of ordinances (litter control, pet waste, wildlife feeding, proper waste disposal, etc.); the development of a municipal stormwater management plan and implementing ordinance(s); requiring certain maintenance activities (such as street sweeping and catch basin cleaning); implementing solids and floatables control; locating discharge points and stenciling catch basins; and a public education component</li> <li>Stormwater Pollution Prevention Plan, dated 12-01-2018.</li> </ul>					
<b>Urban Water Management Plan</b>	No	-	No	-	-
<b>Comment:</b>					
<b>Habitat Conservation Plan</b>	Yes	Local	No	Yes	-
<b>Comment:</b> <ul style="list-style-type: none"> <li>Natural Resources Inventory, revised May 2010. This Natural Resources Inventory has been prepared to assist the Township in recognizing and understanding the unique resources present. It provides a tool to identify and protect these resources. The mapping and description of sensitive areas facilitates the proper use and protection of existing natural areas, the appropriate development of the remaining vacant, privately owned land parcels and the redevelopment of developed lands. This inventory can aid in refining zoning regulations and land use ordinances. The identification and understanding of natural systems and their</li> </ul>					



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<i>inherent and regulatory limitations for development may prevent future environmental problems and associated mitigation costs. The inventory can identify possibilities for regional partnerships and planning activities that can improve environmental conditions and quality of life in the Township.</i>					
<b>Economic Development Plan</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Shoreline Management Plan</b>	No	-	Yes – if located in a coastal zone	-	-
<i>Comment:</i>					
<ul style="list-style-type: none"> <li>NJ Coastal Area Facility Review Act (N.J.S.A. 13:19) or CAFRA regulates almost all development along the coast for activities including construction, relocation, and enlargement of buildings or structures, and excavation, grading, shore protection structures, and site preparation. This law is implemented through NJ's Coastal Zone management Rules N.J.A.C. 7:7E-1 et seq.</li> </ul>					
<b>Community Wildfire Protection Plan</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Community Forest Management Plan</b>	Yes	State & Local	No	Yes	-
<i>Comment:</i>					
<ul style="list-style-type: none"> <li>Community Forestry Management Plan, dated 12-15-2015, valid to 12-31-2019. The goals of the Plan include; To maximize public safety relative to trees the Township manages through a proactive approach to tree care and management; To fully understand the magnitude of the tree resource for which Township employees are responsible for maintaining and also identify noteworthy trees on public and private land that lend character to the Township; To encourage Township residents to be good stewards of their tree resource; To encourage Township Employees to be good stewards of the Townships tree resource.</li> <li>The Environmental Commission is responsible for the oversight and protection of the community forest within the Township.</li> </ul>					
<b>Transportation Plan</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Agriculture Plan</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Climate Action Plan</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Tourism Plan</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Business Development Plan</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Other</b>	No	-	No	-	-
<i>Comment:</i>					
<ul style="list-style-type: none"> <li></li> </ul>					
<b>Response/Recovery Planning</b>					
<b>Comprehensive Emergency Management Plan (CEMP) / Emergency Operations Plan (EOP)</b>	Yes	Local, County	Yes	Yes	-
<i>Comment:</i>					
<ul style="list-style-type: none"> <li>Each county and municipality in the State shall prepare a written Emergency Operations Plan with all appropriate annexes necessary to implement the plan. Each Emergency Operations Plan shall be adopted no later than one year after the State Emergency Planning Guidelines have been adopted by the State Office of Emergency Management and shall be evaluated at such subsequent scheduled review of the State Emergency Operations Plan. L.1989, c.222, s.19.</li> <li>The Township's CEMP refers to the hazard mitigation plan.</li> <li>The Township is also part of the County Emergency Operations Plan</li> </ul>					





Table 9.5-3. Planning, Legal and Regulatory Capability

	Do you have this? (Yes/No)	Authority that enforces (Federal, State, Regional, County, Local)	Is this State Mandated?	If yes-how? Describe in comments	Have aspects of this been integrated into your mitigation plan? If no - can it be a mitigation action? If yes, add Mitigation Action #.
<b>Threat &amp; Hazard Identification &amp; Risk Assessment (THIRA)</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Post-Disaster Recovery Plan</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Continuity of Operations Plan</b>	Yes	Local	No	Yes	-
<i>Comment: The Township has a COOP that will serve to protect the local government and operations from natural hazard disruptions.</i>					
<b>Public Health Plan</b>	Yes	County	No	No	No
<i>Comment:</i>					
<ul style="list-style-type: none"> <li>County Public Health Plan and Public Health Assessment.</li> </ul>					
<b>Other</b>	No	-	No	-	-
<i>Comment:</i>					

Table 9.5-4. Development and Permitting Capability

Criterion	Response
Does your jurisdiction issue development permits? - If no, who does? If yes, which department?	No, Development permits are issued by the state.
Does your jurisdiction have the ability to track permits by hazard area?	No
Does your jurisdiction have a buildable lands inventory? -If yes, please describe briefly. -If no, please quantitatively describe the level of buildout in the jurisdiction.	No

**ADMINISTRATIVE AND TECHNICAL CAPABILITY**

The table below summarizes potential staff and personnel resources available to the Township of Dennis.

Table 9.5-5. Administrative and Technical Capabilities

Staff/Personnel Resource	Available?	Department/Agency/Position
<b>Administrative Capability</b>		
Planning Board	Yes	Land Use/ Planning
Mitigation Planning Committee	Yes	OEM
Environmental Board / Commission	Yes	Environmental Commission
Open Space Board / Committee	No	-
Economic Development Commission / Committee	No	-
Warning Systems / Services (reverse 911, outdoor warning signals)	Yes	CodeRED
Maintenance program to reduce risk	Yes	Public Works conducts regular maintenance
Mutual aid agreements	Yes	Township Committee
<b>Technical/Staffing Capability</b>		





Staff/Personnel Resource	Available?	Department/Agency/Position
Planners or engineers with knowledge of land development and land management practices	Yes	Planning Board Engineer Andy Previtti
Engineers or professionals trained in building or infrastructure construction practices	Yes	Township Engineer Jack Gibson
Planners or engineers with an understanding of natural hazards	Yes	Township Engineer Jack Gibson
Staff with training in benefit/cost analysis	Yes	CFO
Staff with training in green infrastructure	No	-
Staff with education/knowledge/training in low impact development	No	-
Surveyor	Yes	Charles Adamson
Stormwater engineer	Yes	Engineer
Personnel skilled or trained in GIS applications	No	-
Local or state water quality professional	No	-
Scientist familiar with natural hazards in local area	No	-
Emergency manager	Yes	John Berg
Watershed planner	No	-
Environmental specialist	No	-
Grant writers	Yes	Consultants
Resilience Officer	No	-
Other	No	-

### FISCAL CAPABILITY

The table below summarizes financial resources available to the Township of Dennis.

**Table 9.5-6. Fiscal Capabilities**

Financial Resource	Accessible or Eligible to Use?
Community Development Block Grants (CDBG, CDBG-DR)	Yes, Township Committee
Capital Improvements Project Funding	Yes, Township Committee
Authority to Levy Taxes for Specific Purposes	Yes, Township Committee
User Fees for Water, Sewer, Gas or Electric Service	No
Incur Debt through General Obligation Bonds	Yes, Township Committee
Incur Debt through Special Tax Bonds	Yes, Township Committee
Incur Debt through Private Activity Bonds	Yes, Township Committee
Withhold Public Expenditures in Hazard-Prone Areas	No
State-Sponsored Grant Programs	Yes, Township Committee
Development Impact Fees for Homebuyers or Developers	No
Clean Water Act 319 Grants (Nonpoint Source Pollution)	No
Other	No

### EDUCATION AND OUTREACH CAPABILITY

The table below summarizes the education and outreach resources available to the Township of Dennis.

**Table 9.5-7. Education and Outreach Capabilities**

Criterion	Response
Do you have a public information officer or communications office?	No
Do you have personnel skilled or trained in website development?	No





Criterion	Response
Do you have hazard mitigation information available on your website? -If yes, briefly describe.	The Township’s website posts information regarding important information and public notices and includes links to important hurricane and other disaster risk information.
Do you use social media for hazard mitigation education and outreach? -If yes, briefly describe.	Yes, website, Facebook
Do you have any citizen boards or commissions that address issues related to hazard mitigation? -If yes, briefly describe.	No
Do you have any other programs already in place that could be used to communicate hazard-related information? If yes, briefly describe.	No

### COMMUNITY CLASSIFICATIONS

The table below summarizes the classifications for community programs available to the Township of Dennis.

**Table 9.5-8. Community Classifications**

Program	Participating?	Classification	Date Classified
Community Rating System	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (Fire ISO Protection Class)	Yes	4- residential, 3-commercial	Unknown
Storm Ready Certification	No	-	-
Firewise Community Classification	No	-	-
Sustainable Jersey	Yes	None	-

### ADAPTIVE CAPACITY

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). In other words, it describes a jurisdiction’s current ability to adjust to, protect from, or withstand a hazard event. This term is often discussed in reference to climate change; however, adaptive capacity also includes an understanding of local capacity for adapting to current and future risks and changing conditions. The table below summarizes the adaptive capacity for each hazard and the jurisdiction’s rating.

**Table 9.5-9. Adaptive Capacity**

Hazard	Adaptive Capacity (Capabilities) - Strong/Moderate/Weak
Climate Change and Sea Level Rise	Moderate
Coastal Erosion	Moderate
Disease Outbreak (new)	Moderate
Drought (new)	Moderate
Flood	Moderate
Hurricane	Moderate
Nor’Easter	Moderate
Severe Weather	Moderate
Severe Winter Weather	Strong
Tsunami	Moderate
Wildfire	Moderate



**Notes:**

*Strong = Capacity exists and is in use; Moderate = Capacity may exist, but is not used or could use some improvement; Weak = Capacity does not exist or could use substantial improvement; Unsure = Not enough information is known to assign a rating.*

The Township does not have access to resources to determine the possible impacts of climate change upon the municipality. Climate change is not being integrated into current policies/plans or actions. At this time, the administration is not supportive of integrating climate change in policies or actions.

**NATIONAL FLOOD INSURANCE PROGRAM**

This section provides specific information on the management and regulation of the regulatory floodplain.

**Table 9.5-10. National Flood Insurance Program Compliance**

Criterion	Response
What local department is responsible for floodplain management?	Construction Department
Who is your floodplain administrator? (name, department/position)	Michael Morano, Construction Official
Are any certified floodplain managers on staff in your jurisdiction?	No
What is the date that your flood damage prevention ordinance was last amended?	8/22/2017
Does your floodplain management program meet or exceed minimum requirements? -If exceeds, in what ways?	Exceeds, requires 2 feet of freeboard and permeable pavement in certain locations
When was the most recent Community Assistance Visit or Community Assistance Contact?	December 2017
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? -If so, state what they are.	No
Are any RiskMAP projects currently underway in your jurisdiction? If so, state what they are.	Yes, remapping is underway for Cape May County
Do your flood hazard maps adequately address the flood risk within your jurisdiction? -If no, state why.	Yes
Does your floodplain management staff need any assistance or training to support its floodplain management program? - If so, what type of assistance/training is needed?	The floodplain administrator is adequately trained for floodplain management responsibilities, although additional training would be welcome.
Does your jurisdiction participate in the Community Rating System (CRS)? -If yes, is your jurisdiction interested in improving its CRS Classification? -If no, is your jurisdiction interested in joining the CRS program?	No
How many flood insurance policies are in force in your jurisdiction?*	46 policies
-What is the insurance in force? -What is the premium in force?	
How many total loss claims have been filed in your jurisdiction?*	14 claims
-How many claims are still open or were closed without payment? -What were the total payments for losses?	\$1,035,224 in payments
Do you maintain a list of properties that have been damaged by flooding?	No
Do you maintain a list of property owners interested in flood mitigation?	No

\*According to FEMA statistics as of October 2020

**ADDITIONAL AREAS OF EXISTING INTEGRATION**

- **Stormwater Management:** The Township is a MS4 Regulated Community and has stormwater management plan that identifies projects, actions or initiatives to mitigate stormwater flooding. Stormwater Management functions in the community are performed by John Gibson, the Township Engineer.





- **Natural Resources Inventory:** The Natural Resources Inventory was prepared to assist the Township in recognizing and understanding the unique resources present. It provides a tool to identify and protect these resources. The plan includes important information regarding water, biological and cultural resources. The plan specifically addresses coastal resources, floodplains and open space. It does not refer to the hazard mitigation plan, but was intended to support land use decision-making in the Township.
- **Land Use Planning:** The Consolidated Land Use Board reviews applications to determine compliance with natural risk reduction. The Township’s Environmental Commission also has functions related to managing natural hazard risk. The Environmental Commission represents the public and its long-term interests as local environmental advocates and advises the Township Council and the planning and zoning boards about environmental impacts of proposed developments and advocates for open-space preservation.
- **Technical Resources:** The Township contracts with firms for benefit-cost analysis needs and grant application support. Township staff receive training and education in support of natural hazard risk reduction.
- **Underground Utility Wires:** The Township administration, developers, and private property owners develop and adopt local regulations requiring new development to have underground utility wires.
- **County Support on Fire Fighting:** The Fire Department is partnering with Cape May County to identify proper locations for and install water draw (siphon) stations to increase fire-fighting capacity and capabilities). The Township relies on private wells; there is no public water distribution. Local Fire Chiefs are working with County Fire Coordinator to become a National Fire Protection Association (NFPA) “Firewise” community. Local Fire Chiefs through attendance at the regular meetings of the Cape May County Fire Chiefs Association, and in partnership with the New Jersey Division of Fire Safety and the New Jersey State Forest Fire Service, expand and enhance public awareness and education programs that support wildfire mitigation at the property owner level; and expand local wildfire preparedness and response capabilities through participation in seminars and training, and the implementation of recommendations and initiatives offered by these agencies, as resources permit.
- **County Support on Flood Issues:** The County Engineering, with municipal support, continue to support County-led efforts to conduct an engineering study to understand flooding issues and evaluate possible solutions:
  - at low areas along Woodbine-Ocean View Road (CR550) in Dennis Township
  - low areas along Court House-South Dennis Road (CR657) near Beaver Dam Road in Dennis Township
  - along Fidler Road (CR638) in Dennis Township
  - along Corsons Tavern Road (CR628) in Dennis Township
- **Environmental Commission:** The Environmental Commission continue to provide and augment environmental assessment regulations to identify and protect sensitive environmental resources.
- **Stormwater Management:** The Department of Public Works minimize off-site storm water runoff by encouraging the use of best management practices which protect the character of the natural drainage systems.



### 9.5.5 Hazard Event History Specific to the Jurisdiction

Cape May County has a history of hazard events, as detailed in Section 5 (Risk Assessment) of this plan. A summary of historical events is provided in each of the hazard profiles in Section 5.4 (Hazard Profiles) and includes a chronology of events that affected Cape May County and its jurisdictions. The Township of Dennis’s history of federally-declared (as presented by FEMA) and significant hazard events (as presented in NOAA-NCEI) is consistent with that of Cape May County. Table 9.5-11 provides details regarding municipal-specific loss and damages the Township experienced during hazard events. Information provided in the table below is based on reference material or local sources.

**Table 9.5-11. Hazard Event History**

Date(s) of Event	Event Type (disaster declaration if applicable)	Cape May County Designated?	Summary of Event	Summary of Local Damages and Losses
January 22, 2016 - January 24, 2016	DR-4264: Severe Winter Weather and Snowstorm	Yes	A major nor'easter, produced record snowfall and blizzard conditions in parts of New Jersey on January 23 <sup>rd</sup> and 24 <sup>th</sup> .	Although the County was impacted, the Township did not report damages.
January 20, 2020 and continuing	EM-3451, DR-4488: COVID-19 Pandemic	Yes	The coronavirus pandemic resulted in the need for shutdowns and social distancing and mask requirements.	The Township was subject to restrictions due to coronavirus.

Source: NOAA NCEI 2020, FEMA 2020  
 Note:

### 9.5.6 Jurisdiction-Specific Vulnerabilities and Hazard Ranking

The hazard profiles in Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. A gradient of certainty was developed to summarize the confidence level regarding the input used to populate the hazard ranking. Refer to Section 5.1 (Methodology) and Section 5.3 (Hazard Ranking) for a detailed summary for the Township of Dennis risk assessment results and data used to determine the hazard ranking.

#### REPETITIVE FLOOD LOSSES

The table below summarizes the repetitive and severe repetitive flood losses in the Township of Dennis.

- Number of repetitive loss (RL) properties: 1
- Number of severe repetitive loss (SRL) properties: 0
- Number of RL/SRL properties that have been mitigated: *None*

Source: NFIP FEMA Region 2, 2020  
 Note: The number of SRL properties excludes RL properties.

#### CRITICAL FACILITIES

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain.



**Table 9.5-12. Potential Flood Losses to Critical Facilities and Lifelines**

Name	Type	Exposure	
		1% Event	0.2% Event
No Name	Communications Facility	X	X
No Name	Communications Facility	X	X
No Name	Communications Facility	X	X
Ludlams Thorofare Bridge	Bridge	X	X
C.H-S Dennis Rd Bridge	Bridge	X	X
Minmar Marine Basin	Marinas	X	X
Larsen's Marina	Marinas	X	X
East Creek Manor	Senior Facility		X
OCEAN VIEW SERVICE AREA	Potable Water Facilities	X	X
Magnolia Lake Dam	Dams	X	X
East Creek Pond Dam	Dams		X
West Creek Dam	Dams	X	X
Ludlam Pond Dam	Dams		X

Source: FEMA DFIRM 2014/2017; Cape May County 2020

Note:

\*Identified lifeline

### IDENTIFIED ISSUES

The jurisdiction has identified the following vulnerabilities within their community:

- Some roadways/evacuation routes that are susceptible to flooding; i.e. county roads such as Court-House South Dennis Road by Beaver Swamp.
- Falling trees result in power losses due to damage on wires.
- Dennis Township Primary & Elementary Schools (designated as Shelters of Last Resort) and the Dennis Township Recreation Center require backup power.
- The Township has two remaining unmitigated repetitive loss properties.
- Wells are needed at the Ocean View Fire Station on Route 9 and the Dennis Volunteer Fire Company on Petersburg Road.
- The Township needs Variable Message Boards for use in high traffic areas of the Township.

### HAZARD AREA EXTENT AND LOCATION

Hazard area extent and location maps were generated for the Township of Dennis that illustrate the probable areas impacted within the municipality. These maps are based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Maps have been generated only for those hazards that can be clearly identified using mapping techniques and technologies and for which the Township of Dennis has significant exposure. A map of the Township of Dennis hazard area extent and location is provided on the following page. This map indicates the location of the regulatory floodplain, as well as identified critical facilities within the municipality.

### HAZARD RANKING

This section includes the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; its potential impacts on people, property, and the economy; community capability and changing future climate conditions. This input supports the mitigation action development to target those hazards with highest level of concern.





As discussed in Section 5.3 (Hazard Ranking), each plan participant may have differing degrees of risk exposure and vulnerability compared to Cape May County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community factoring in their capabilities to withstand impacts and rebound after the event. The table below summarizes the hazard rankings of potential natural hazards for the Township of Dennis. The Township of Dennis has reviewed the Cape May County hazard ranking table and has provided input to its individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard ranking, the Township indicated the following:

- The Township agreed with the calculated hazard rankings.

**Table 9.5-13. Township of Dennis Hazard Ranking Input**

Climate Change and Sea Level Rise	Coastal Erosion	Disease Outbreak	Drought	Flood	Hurricane
Low	Medium	Medium	Medium	Medium	High
Nor'Easter	Severe Weather	Severe Winter Weather	Tsunami	Wildfire	
High	High	High	Low	High	

### 9.5.7 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and provides action prioritization.

#### PAST MITIGATION INITIATIVE STATUS

The following table summarizes the jurisdiction’s progress on their mitigation strategy identified in the 2015 HMP. Actions that are carried forward as part of this plan update are included in the following subsection in its own table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and can also be found under ‘Capability Assessment’ presented previously in this annex.

Table 9.5-14. Status of Previous HMP Mitigation Actions

2015 Action Number	Action Description	Responsible Party	Status (In Progress, No Progress, Ongoing Capability, or Completed)	Include in the 2021 HMP Update?	
				Check if Yes	Enter 2021 HMP Action #
TD-1a	Where appropriate, support retrofitting of structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority.	Township (likely through NFIP Floodplain Administrator); State OEM, County OEM	Ongoing Capability		
TD-1b	Where appropriate, support acquisition and/or relocation of structures located in hazard-prone areas to protect structures	Township (likely through NFIP Floodplain Administrator);	No Progress, the Township has two remaining unmitigated properties	X	2021-Dennis-001







Table 9.5-14. Status of Previous HMP Mitigation Actions

2015 Action Number	Action Description	Responsible Party	Status (In Progress, No Progress, Ongoing Capability, or Completed)	Include in the 2021 HMP Update?	
				Check if Yes	Enter 2021 HMP Action #
	from future damage, with repetitive loss and severe repetitive loss properties as priority.	State OEM, County OEM			
TD-2	Continue to develop, enhance, and implement existing emergency plans.	Municipal Emergency Manager with support from County OEM and NJOEM	Ongoing Capability		
TD-3	Create/enhance/ maintain mutual aid agreements with neighboring communities.	Township OEM	Ongoing Capability		
TD-4	Support County-wide initiatives identified in Section 9.1 of the County Annex. Support county-wide initiatives identified in the Cape May County Hazard Mitigation Plan.	Local departments (as applicable for specific initiative)	Ongoing Capability		
TD-5	Purchase generator for the two Ocean View Fire Stations. These facilities not only serve Dennis Township but provide car storage for Sea Isle City.	Fire Department	Complete		
TD-6	Purchase generators for both Academy Lane and Hagon Road Schools which are both designated 'Shelters of Last Resort'	School Administration	No Progress	X	2021-Dennis-003
TD-7	A water well is needed at Ocean Fire Station #1 to increase response capabilities	Fire Department	No Progress	X	2021-Dennis-002
TD-8	A water well is needed at Dennisville Fire House to increase response capabilities	Fire Department	No Progress	X	2021-Dennis-002
TD-9	Develop and adopt local regulations requiring new development to have underground utility wires.	Township administration; developers and private property owners	Ongoing Capability		
TD-10	Install a water line down Route 9 to supply water to Middle Township	Township DPW	No Progress, no longer a priority		
TD-11	Elevate Sea Isle Blvd roadway and ramps which will require elevation of the Garden State Parkway bridge overpass (intersection of Sea Isle Blvd [CR-601] and Garden State Parkway)	County Engineering with NJTPA	Complete		
TD-12	Purchase and permanently install variable message boards to advise of traffic, alternate routes/detours due to accidents / flooding / wildfire events/other hazardous conditions along the	Township OEM and DPW	No Progress	X	2021-Dennis-004



Table 9.5-14. Status of Previous HMP Mitigation Actions

2015 Action Number	Action Description	Responsible Party	Status (In Progress, No Progress, Ongoing Capability, or Completed)	Include in the 2021 HMP Update?	
				Check if Yes	Enter 2021 HMP Action #
	following Routes through the Township which serve as major evacuation routes: <ul style="list-style-type: none"> <li>• 550</li> <li>• 347</li> <li>• 47</li> <li>• 83</li> </ul>				
TD-13	Continue to investigate solutions to mitigate flooding at the intersection of Routes 47 and 83.	Cape May County; State DOT	Complete		
TD-14	Identify proper locations for and install water draw (siphon) stations to increase fire-fighting capacity and capabilities). The Township relies on private wells; there is no public water distribution.	Fire Department; Cape May County	Ongoing Capability		
TD-15	Elevate Sea Isle Boulevard (CR-601) from the Parkway to the Sea Isle bridge. This project is currently in the State Transportation Improvement Plan (TIP) for construction over the next two years, and is currently in the preliminary engineering phase.	County Engineering with municipal support	Complete		
TD-16	Continue to support County-led efforts to conduct an engineering study to understand flooding issues and evaluate possible solutions: <ul style="list-style-type: none"> <li>•at low areas along Woodbine-Ocean View Road (CR550) in Dennis Township</li> <li>•low areas along Court House-South Dennis Road (CR657) near Beaver Dam Road in Dennis Township</li> <li>•along Fidler Road (CR638) in Dennis Township</li> <li>•along Corsons Tavern Road (CR628) in Dennis Township</li> </ul>	County Engineering with municipal support	Ongoing Capability		
TD-17	Become a National Fire Protection Association (NFPA) “Firewise” community.	Local Fire Chiefs working with County Fire Coordinator	Ongoing Capability		
TD-18	Through attendance at the regular meetings of the Cape May County Fire Chiefs Association, and in partnership with the New Jersey Division of Fire Safety and the New Jersey State Forest Fire Service, expand and enhance public awareness and education programs that support wildfire mitigation at the	Local Fire Chiefs	Ongoing Capability		



Table 9.5-14. Status of Previous HMP Mitigation Actions

2015 Action Number	Action Description	Responsible Party	Status (In Progress, No Progress, Ongoing Capability, or Completed)	Include in the 2021 HMP Update?	
				Check if Yes	Enter 2021 HMP Action #
	property owner level; and expand local wildfire preparedness and response capabilities through participation in seminars and training, and the implementation of recommendations and initiatives offered by these agencies, as resources permit.				
TD-19	Continue to provide and augment environmental assessment regulations to identify and protect sensitive environmental resources.	Environmental Commission	Ongoing Capability		
TD-20	Consider establishment of a Shade Tree Commission.	DPW	No Progress		
TD-21	Continue/Implement a tree maintenance program.	DPW	No Progress	X	2021-Dennis-007
TD-22	Minimize off-site storm water runoff by encouraging the use of best management practices which protect the character of the natural drainage systems.	DPW	Ongoing Capability		

In addition to the above progress, the Township of Dennis identified the following mitigation projects/activities that were completed but not identified in the 2015 HMP mitigation strategy:

- None identified

**PROPOSED HAZARD MITIGATION INITIATIVES FOR THE PLAN UPDATE**

The Township of Dennis participated in a risk assessment workshop in September 2020 in which detailed information was provided about assets exposed and vulnerable to the identified hazards of concern. The Township of Dennis participated in a mitigation action workshop in October 2020 and was provided a Mitigation Toolbox that included a mitigation catalog developed specifically for Cape May County and its hazards of concerns; challenges and opportunities identified during the capability and risk assessments; and the following FEMA publications to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards: FEMA 551 *Selecting Appropriate Mitigation Measures for Floodprone Structures* (March 2007) and FEMA *Mitigation Ideas – A Resource for Reducing Risk to Natural Hazards* (January 2013). Section 6 (Mitigation Strategy) and Appendix F (Mitigation Strategy Supplement) provide a more complete description of the Mitigation Toolbox and its resources.

Table 9.5-15 summarizes the comprehensive-range of specific mitigation initiatives the Township of Dennis would like to pursue in the future to reduce the effects of hazards. Some of these initiatives might be previous actions carried forward for this HMP update. Initiatives are dependent upon available funding (grants and local match availability) and can be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities. Both the 4 FEMA mitigation action categories and





the 6 CRS mitigation action categories are listed in the table below to further demonstrate the wide-range of activities and mitigation measures selected.

As discussed in Section 6 (Mitigation Strategy), 14 evaluation/prioritization criteria are used to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as *High*, *Medium*, or *Low*. The table below summarizes the evaluation of each mitigation initiative, listed by action number.

Table 9.5-16 provides a summary of the prioritization of all proposed mitigation initiatives for this HMP update.



Table 9.5-15. Proposed Hazard Mitigation Initiatives

Initiative Number	Mitigation Initiative Name	Description of the Problem and Solution	New or Existing Assets?	Hazard(s) to be Mitigated	Goals Met	Lead and Support Agencies	Potential Funding Sources	Estimated Benefits	Estimated Cost	Timeline	Priority	Mitigation Category	CRS Category
2021-Dennis-001 (TD-1b)	Mitigate Repetitive Loss	<b>Problem:</b> The Township has two remaining unmitigated properties.	Existing	Flood, Severe Weather	1	NFIP Floodplain Administrator, supported by homeowners	FEMA HMGP and FMA, BRIC, local cost share by residents	Eliminates flood damage to homes and residents, creates open space for the municipality increasing flood storage.	\$500,000	3 years	High	SIP	PP
		<b>Solution:</b> The Township will conduct outreach to the two RL/SRL property owners and provide information on property acquisition or relocation. The Township will collect required property-owner information and develop a FEMA grant application and BCA to obtain funding to implement acquisition/purchase/moving residential homes in the flood prone areas that experience frequent flooding (high risk areas).											
2021-Dennis-002 (former TD-7 and TD-8)	Water Wells for Fire Stations	<b>Problem:</b> Water wells are needed at Ocean Fire Station #1 and the Dennisville Fire House to increase response capabilities.	Existing	Drought, Wildfire	3, 4	Fire Department	BRIC, Community Facilities Grant Program, Assistance to Firefighters Grant Program	Increased emergency response capabilities	High	Within 5 years	High	SIP	ES
		<b>Solution:</b> The Township will install water wells at each fire station.											
2021-Dennis-003 (former TD- 6)	Generators for Shelters	<b>Problem:</b> Backup power sources are necessary to maintain critical services for critical facilities. Academy Lane and Hagon Road Schools which are both designated ‘Shelters of Last Resort’ lack backup power sources.	Existing	All Hazards	1, 3, 4	OEM, Engineer	FEMA HMGP and BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Municipal Budget	Continuity of sheltering services	\$50,000 per generator	1 year	High	SIP	ES
		<b>Solution:</b> The Township will research the appropriately sized generators for each facility. The Township will then purchase and install generators and necessary electrical components for both schools.											



Table 9.5-15. Proposed Hazard Mitigation Initiatives

Initiative Number	Mitigation Initiative Name	Description of the Problem and Solution	New or Existing Assets?	Hazard(s) to be Mitigated	Goals Met	Lead and Support Agencies	Potential Funding Sources	Estimated Benefits	Estimated Cost	Timeline	Priority	Mitigation Category	CRS Category
2021-Dennis-004 (former TD- 12)	Variable Message Boards	<b>Problem:</b> Message boards are needed to conduct outreach and emergency messaging in the Township.	N/A	All Hazards	2, 3, 4	OEM	Emergency Management Performance Grants (EMPG) Program, Municipal Budget	Increased emergency messaging	\$20,000 per sign	Within 3 years	High	EAP	PI, ES
		<b>Solution:</b> The Township will purchase and permanently install variable message boards to advise of traffic, alternate routes/detours due to accidents / flooding / wildfire events/other hazardous conditions along the following Routes through the Township which serve as major evacuation routes: <ul style="list-style-type: none"> <li>• 550</li> <li>• 347</li> <li>• 47</li> <li>• 83</li> </ul>											
2021-Dennis-005	Drain Vac Truck	<b>Problem:</b> The Township requires a Drain Vac Truck to clean storm drains of silt and debris to prevent stormwater flooding.	N/A	Severe Weather, Flood	3	DPW	Capital budget	Public works capabilities increasing, stormwater flood risk reduced	\$250,000	4 years	High	LPR	PR
		<b>Solution:</b> The Township will purchase a Drain Vac Truck and utilize for regular stormwater cleaning.											
2021-Dennis-006	Disaster Debris Management Plan	<b>Problem:</b> The Township lacks a debris management plan.	N/A	All Hazards	4, 6	Administration	Municipal budget	Plan in place for debris management	Staff time	1 year	High	LPR	ES
		<b>Solution:</b> The Township will develop and adopt a Disaster Debris Management Plan.											
2021-Dennis-007 (TD-21)	Vegetation Management Program	<b>Problem:</b> Falling trees result in power losses due to damage on wires.	N/A	Severe Weather, Severe Winter Weather, Hurricane, Nor'Easter	1, 5	DPW	Municipal budget	Reduction in damages and power loss from falling trees	\$50,000	1 year	High	NSP	NR
		<b>Solution:</b> The Township will develop a vegetation management program.											

Notes:

Acronyms and Abbreviations:

CAV Community Assistance Visit  
 CRS Community Rating System  
 DPW Department of Public Works

Potential FEMA HMA Funding Sources:

FMA Flood Mitigation Assistance Grant Program  
 HMGP Hazard Mitigation Grant Program

Timeline:

The time required for completion of the project upon implementation

Cost:





FEMA Federal Emergency Management Agency  
 FPA Floodplain Administrator  
 HMA Hazard Mitigation Assistance  
 N/A Not applicable  
 NFIP National Flood Insurance Program  
 OEM Office of Emergency Management

BRIC Building Resilient Infrastructure and Communities Program

The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.

Mitigation Category:

- Local Plans and Regulations (LPR) – These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
- Structure and Infrastructure Project (SIP) - These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.
- Natural Systems Protection (NSP) – These are actions that minimize damage and losses and preserve or restore the functions of natural systems.
- Education and Awareness Programs (EAP) – These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities.

CRS Category:

- Preventative Measures (PR) - Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.
- Property Protection (PP) - These actions include public activities to reduce hazard losses or actions that involve (1) modification of existing buildings or structures to protect them from a hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.
- Public Information (PI) - Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. Actions include outreach projects, real estate disclosure, hazard information centers, and educational programs for school-age children and adults.
- Natural Resource Protection (NR) - Actions that minimize hazard loss and preserve or restore the functions of natural systems. Actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.
- Structural Flood Control Projects (SP) - Actions that involve the construction of structures to reduce the impact of a hazard. Structures include dams, setback levees, floodwalls, retaining walls, and safe rooms.
- Emergency Services (ES) - Actions that protect people and property during and immediately following a disaster or hazard event. Services include warning systems, emergency response services, and the protection of essential facilities.



Table 9.5-16. Summary of Prioritization of Actions

Initiative Number	Mitigation Initiative Name	Life Safety	Property Protection	Cost Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2021-Dennis-001 (TD-1b)	Mitigate Repetitive Loss	1	1	1	1	1	1	0	1	0	0	1	0	1	1	10	High
2021-Dennis-002 (former TD-7 and TD-8)	Water Wells for Fire Stations	1	0	1	1	1	1	0	1	1	1	1	0	1	1	12	High
2021-Dennis-003 (former TD- 6)	Generators for Shelters	1	1	1	1	1	1	0	1	1	1	0	1	1	1	12	High
2021-Dennis-004 (former TD- 12)	Variable Message Boards	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High
2021-Dennis-005	Drain Vac Truck	0	1	1	1	1	1	1	1	1	1	1	0	1	1	12	High
2021-Dennis-006	Disaster Debris Management Plan	0	1	1	1	1	1	1	1	1	1	1	1	1	1	13	High
2021-Dennis-007 (TD-21)	Vegetation Management Program	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High

Notes: Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



This action has been identified as being of highest importance to the municipality and an action that the municipality would like to complete as soon as funding is received.





Table 9.5-17. Analysis of Mitigation Actions by Hazard and Category

Hazard	Prevention	Property Protection	Public Education and Awareness	Natural Resource Protection	Emergency Services	Structural Projects	Climate Resilient	Community Capacity Building
Climate Change and Sea Level Rise		X	X		X			X
Coastal Erosion		X	X		X			X
Disease Outbreak		X	X		X			X
Drought		X	X		X			X
Flood		X	X		X			X
Hurricane		X	X	X	X			X
Nor'Easter		X	X	X	X			X
Severe Weather		X	X	X	X			X
Severe Winter Weather		X	X	X	X			X
Tsunami		X	X		X			X
Wildfire		X	X		X			X

Note: Section 6 (Mitigation Strategy) provides for an explanation of the mitigation categories.

**RED** high ranked hazard

**ORANGE** medium ranked hazard

**YELLOW** low ranked hazard



Figure 9.5-1. Township of Dennis Hazard Area Extent and Location Map 1

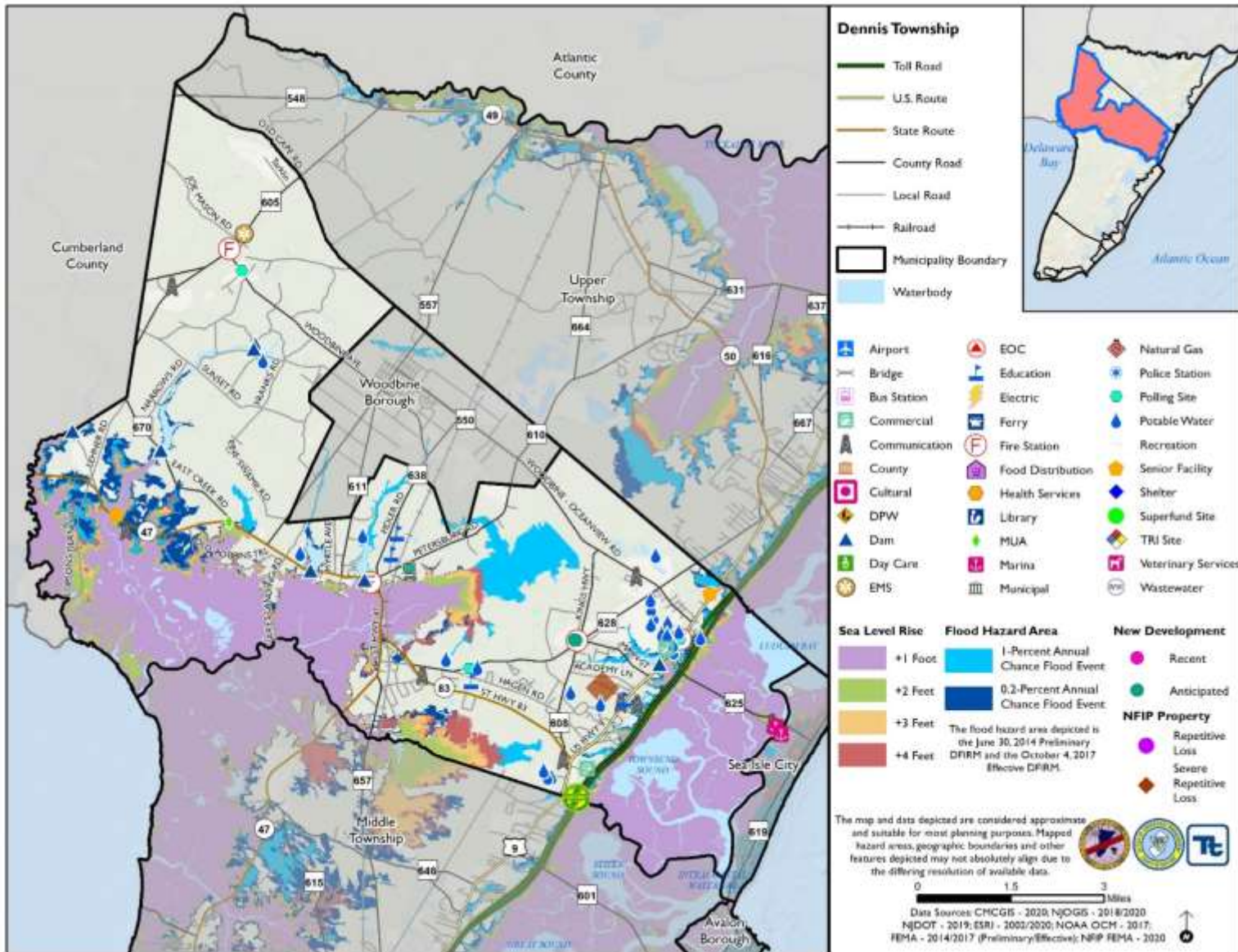




Figure 9.5-2. Township of Dennis Hazard Area Extent and Location Map 2

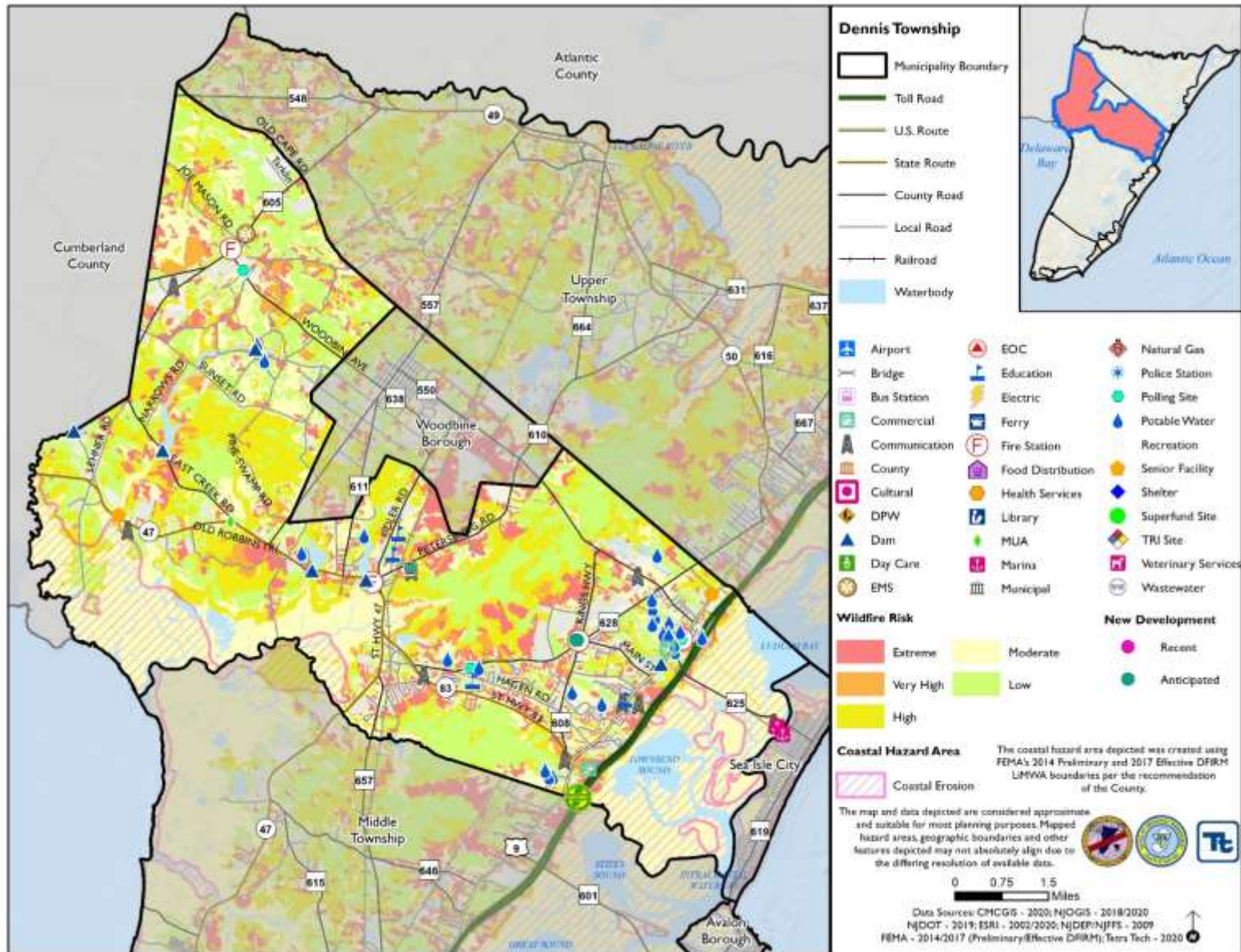
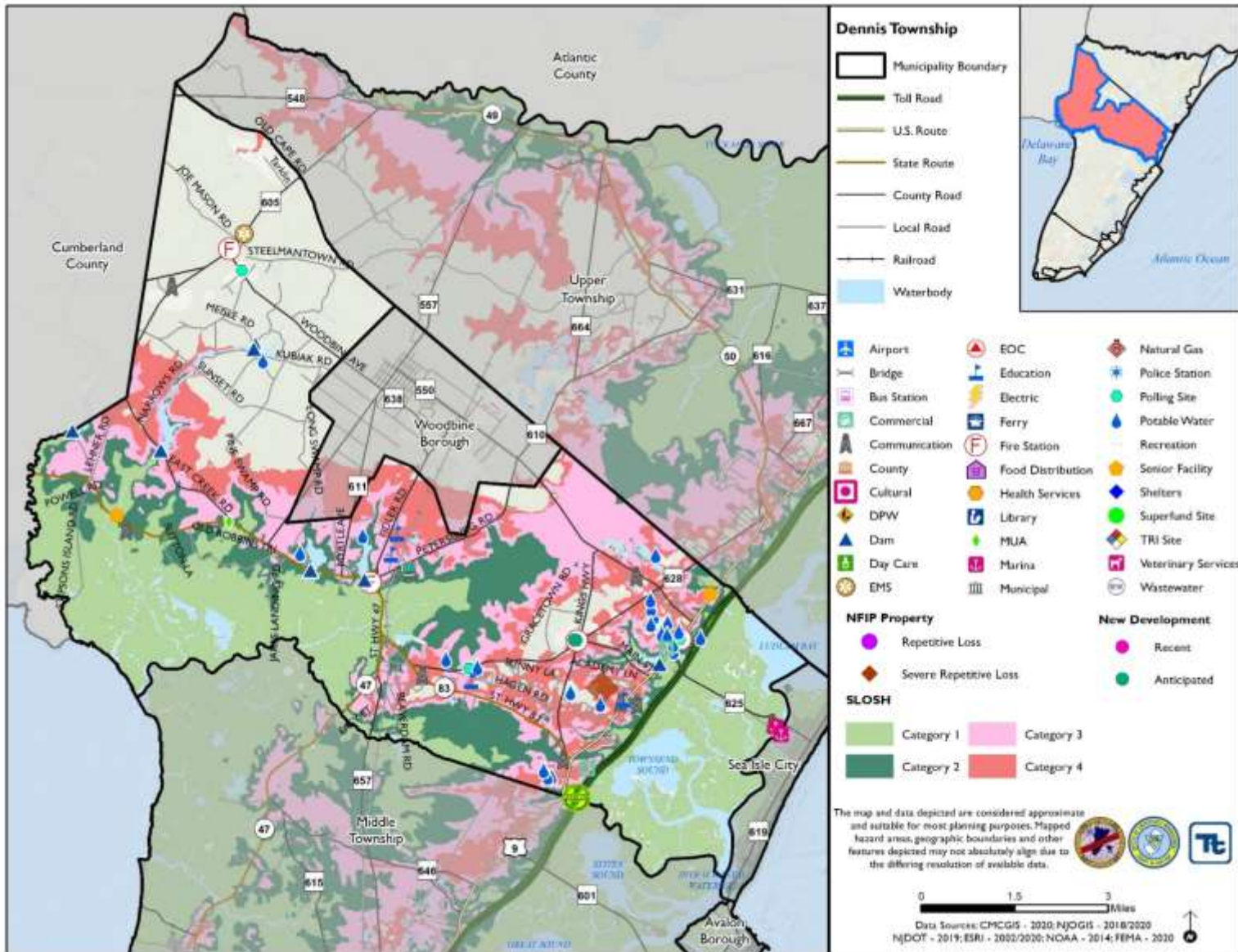




Figure 9.5-3. Township of Dennis Hazard Area Extent and Location Map 3





Action Worksheet			
<b>Project Name:</b>	Mitigate Repetitive Loss		
<b>Project Number:</b>	2021-Dennis-001		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Flood, Severe Weather		
<b>Description of the Problem:</b>	The Township has two remaining unmitigated repetitive loss properties.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	The Township will conduct outreach to the two RL/SRL property owners and provide information on property acquisition or relocation. The Township will collect required property-owner information and develop a FEMA grant application and BCA to obtain funding to implement acquisition/purchase/moving residential homes in the flood prone areas that experience frequent flooding (high risk areas).		
<b>Is this project related to a Critical Facility or Lifeline?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
<b>Level of Protection:</b>	1% annual chance flood event + freeboard ( <i>in accordance with flood ordinance</i> )	<b>Estimated Benefits (losses avoided):</b>	Eliminates flood damage to homes and residents, creates open space for the municipality increasing flood storage.
<b>Useful Life:</b>	Acquisition: Lifetime Elevation: 30 years (residential)	<b>Goals Met:</b>	1
<b>Estimated Cost:</b>	\$500,000	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	6-12 months
<b>Estimated Time Required for Project Implementation:</b>	Three years	<b>Potential Funding Sources:</b>	FEMA HMGP and FMA, BRIC, local cost share by residents
<b>Responsible Organization:</b>	NFIP Floodplain Administrator, supported by homeowners	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Current problem continues
	Elevate homes	\$500,000	When this area floods, the entire area is impacted; elevating homes would not eliminate the problem and still lead to road closures and impassable roads
	Elevate roads	\$500,000	Elevated roadways would not protect the homes from flood damages
Progress Report (for plan maintenance)			
<b>Date of Status Report:</b>			
<b>Report of Progress:</b>			
<b>Update Evaluation of the Problem and/or Solution:</b>			



Action Worksheet		
<b>Project Name:</b>	Mitigate Repetitive Loss	
<b>Project Number:</b>	2021-Dennis-001	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
<b>Life Safety</b>	1	Families moved out of high-risk flood areas.
<b>Property Protection</b>	1	Properties removed from high-risk flood areas.
<b>Cost-Effectiveness</b>	1	Cost-effective project
<b>Technical</b>	1	Technically feasible project
<b>Political</b>	1	
<b>Legal</b>	1	The Township has the legal authority to conduct the project.
<b>Fiscal</b>	0	Project will require grant funding.
<b>Environmental</b>	1	
<b>Social</b>	0	Project would remove families from the flood prone areas of the Township.
<b>Administrative</b>	0	
<b>Multi-Hazard</b>	1	Flood, Severe Weather
<b>Timeline</b>	0	
<b>Agency Champion</b>	1	NFIP Floodplain Administrator, supported by homeowners
<b>Other Community Objectives</b>	1	
<b>Total</b>	10	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	Water Wells for Fire Stations		
<b>Project Number:</b>	2021-Dennis-002 (former TD-7 and TD-8)		
<b>Risk / Vulnerability</b>			
<b>Hazard(s) of Concern:</b>	Drought, Wildfire		
<b>Description of the Problem:</b>	Water wells are needed at Ocean Fire Station #1 and the Dennisville Fire House to increase response capabilities.		
<b>Action or Project Intended for Implementation</b>			
<b>Description of the Solution:</b>	The Township will install water wells at each fire station.		
<b>Is this project related to a Critical Facility?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
<b>Level of Protection:</b>	Water sources established	<b>Estimated Benefits (losses avoided):</b>	Tank will ensure continued operations for domestic serve and firefighting before, during and after storm events.
<b>Useful Life:</b>	25 years	<b>Goals Met:</b>	3, 4
<b>Estimated Cost:</b>	High	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
<b>Plan for Implementation</b>			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Within 5 years
<b>Estimated Time Required for Project Implementation:</b>	1 month	<b>Potential Funding Sources:</b>	BRIC, Community Facilities Grant Program, Assistance to Firefighters Grant Program
<b>Responsible Organization:</b>	Maintenance	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Hazard Mitigation
<b>Three Alternatives Considered (including No Action)</b>			
<b>Alternatives:</b>	<b>Action</b>	<b>Estimated Cost</b>	<b>Evaluation</b>
	No Action	\$0	Problem continues.
	Build large water storage tanks	High	Costly, still require water source to fill
	Purchase tankers	High	Costly, still require water source to fill
<b>Progress Report (for plan maintenance)</b>			
<b>Date of Status Report:</b>			
<b>Report of Progress:</b>			
<b>Update Evaluation of the Problem and/or Solution:</b>			



Action Worksheet		
<b>Project Name:</b>	Water Wells for Fire Stations	
<b>Project Number:</b>	2021-Dennis-002 (former TD-7 and TD-8)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Well allows for increased firefighting capability
Property Protection	0	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The Township has the legal authority to complete the project
Fiscal	0	The project requires funding support
Environmental	1	
Social	1	Provides service to the community
Administrative	1	
Multi-Hazard	1	Drought, Wildfire
Timeline	0	Within 5 years
Agency Champion	1	Fire Department
Other Community Objectives	1	
<b>Total</b>	12	
<b>Priority (High/Med/Low)</b>	High	





Action Worksheet			
<b>Project Name:</b>	Generators for Shelters		
<b>Project Number:</b>	2021-Dennis-003		
<b>Risk / Vulnerability</b>			
<b>Hazard(s) of Concern:</b>	All Hazards		
<b>Description of the Problem:</b>	Backup power sources are necessary to maintain critical services for critical facilities. Academy Lane and Hagon Road Schools which are both designated 'Shelters of Last Resort' lack backup power sources.		
<b>Action or Project Intended for Implementation</b>			
<b>Description of the Solution:</b>	The Township will research the appropriately sized generators for each facility. The Township will then purchase and install generators and necessary electrical components for both schools.		
<b>Is this project related to a Critical Facility?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
<b>Level of Protection:</b>	N/A	<b>Estimated Benefits (losses avoided):</b>	Ensures continuity of operations of DPW building
<b>Useful Life:</b>	20 years	<b>Goals Met:</b>	1, 3, 4
<b>Estimated Cost:</b>	\$50,000 per generator	<b>Mitigation Action Type:</b>	Structure and Infrastructure Projects (SIP)
<b>Plan for Implementation</b>			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	1 year
<b>Estimated Time Required for Project Implementation:</b>	1 year	<b>Potential Funding Sources:</b>	FEMA HMGP and BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Municipal Budget
<b>Responsible Organization:</b>	OEM, Engineer	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Hazard Mitigation, Emergency Management
<b>Three Alternatives Considered (including No Action)</b>			
<b>Alternatives:</b>	<b>Action</b>	<b>Estimated Cost</b>	<b>Evaluation</b>
	No Action	\$0	Problem continues.
	Install solar panels	\$100,000	Weather dependent; need large amount of space for installation; expensive if repairs needed
	Install wind turbine	\$100,000	Weather dependent; poses a threat to wildlife; expensive repairs if needed
<b>Progress Report (for plan maintenance)</b>			
<b>Date of Status Report:</b>			
<b>Report of Progress:</b>			
<b>Update Evaluation of the Problem and/or Solution:</b>			



Action Worksheet		
<b>Project Name:</b>	Generators for Shelters	
<b>Project Number:</b>	2021-Dennis-003	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
<b>Life Safety</b>	1	Project will protect critical services of shelters
<b>Property Protection</b>	1	Project will protect schools from power loss.
<b>Cost-Effectiveness</b>	1	
<b>Technical</b>	1	
<b>Political</b>	1	
<b>Legal</b>	1	The Township has the legal authority to complete the project.
<b>Fiscal</b>	0	Project requires funding support.
<b>Environmental</b>	1	
<b>Social</b>	1	
<b>Administrative</b>	1	
<b>Multi-Hazard</b>	0	All Hazards
<b>Timeline</b>	1	1 year
<b>Agency Champion</b>	1	OEM, Engineer
<b>Other Community Objectives</b>	1	
<b>Total</b>	12	
<b>Priority (High/Med/Low)</b>	High	