



## 9.14 BOROUGH OF WEST WILDWOOD

This section presents the jurisdictional annex for the Borough of West Wildwood. The annex includes a general overview of the Borough of West Wildwood; an assessment of the Borough of West Wildwood’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.

### 9.14.1 Hazard Mitigation Planning Team

The Borough of West Wildwood 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 9.14-1. Hazard Mitigation Planning Team and Contributors**

Primary Point of Contact		Alternate Point of Contact
Name / Title: Jacquelyn Ferentz, OEM Coordinator Address: 701 West Glenwood Avenue West Wildwood, NJ 08260 Phone Number: (609) 522-4060x321 Email: <a href="mailto:jferentz@westwildwood.org">jferentz@westwildwood.org</a>		Name / Title: Lew Ostrander, Zoning Official Address: 701 West Glenwood Avenue West Wildwood, NJ 08260 Phone Number: (609) 780-2103 Email: <a href="mailto:lostrander@westwildwood.org">lostrander@westwildwood.org</a>
NFIP Floodplain Administrator		
Name / Title: John Fearheller, Floodplain Administrator/Assistant to Public Works Administrator Address: 701 West Glenwood Avenue West Wildwood, NJ 08260 Phone Number: (609) 522-4845 Email: <a href="mailto:jfearheller@westwildwood.org">jfearheller@westwildwood.org</a>		
Name	Title	Method of Participation
Jacquelyn Ferentz	OEM Coordinator	Primary point of contact, reviewed and signed off on annex
Lew Ostrander	Zoning Official	Secondary point of contact
John Fearheller	Floodplain Administrator/Assistant to Public Works Administrator	NFIP floodplain administrator
Carl O’Hara	Deputy Clerk	Provided information and data, contributed to the mitigation strategy, reviewed the draft annex and provided feedback
Christopher Fox	Mayor	Reviewed and signed off on annex
William Null	Supervisor, Public Works	Reviewed and signed off on annex

### 9.14.2 Jurisdiction Profile

The Borough of West Wildwood is located on a barrier island along the Atlantic Ocean coastline of Cape May County, New Jersey. It is bounded on the north and west by the Township of Middle and the Richardson and Grassy Sound, on the east by the City of North Wildwood and the Atlantic Ocean, and on the south by the City of Wildwood and the Atlantic Ocean. West Wildwood is a small island connected to Wildwood by a two-lane bridge.



The Borough of West Wildwood and its neighboring communities of the City of Wildwood, City of North Wildwood, and the Borough of Wildwood Crest make up "The Wildwoods" resort, a popular vacation destination for those living in all parts of New Jersey as well as within the New York City and Philadelphia, Pennsylvania metropolitan areas.

According to the U.S. Census, the 2010 population for the Borough of West Wildwood was 603. The estimated 2018 population was 376, a 37.6 percent decrease from the 2010 Census. Data from the 2018 U.S. Census American Community Survey indicate that 4.0 percent of the population is 5 years of age or younger and 39.9 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.

### 9.14.3 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 9.14-2 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development. Figure 9.14-1 at the end of this annex illustrates the geographically-delineated hazard areas and the location of potential new development.

**Table 9.14-2. 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	0	0	0	0	0	0	0	0	0	0
Multi-Family	0	0	0	0	0	0	0	0	0	0
Other (commercial, mixed-use, etc.)	0	0	0	0	0	0	0	0	0	0
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>										
None anticipated										

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

### 9.14.4 Capability Assessment

The Borough of West Wildwood 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 9.14.4). The Borough of West Wildwood 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 Borough of West Wildwood and where hazard mitigation has been integrated.

**Table 9.14-3. 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	Yes	-
<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>• Land Development Ordinance, adopted by the Board of Commissioners and last updated in January 2014.</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>• Land Development Ordinance, adopted by the Board of Commissioners and last updated in January 2014, Section III, Zoning Districts, Rules and Regulations. This is a comprehensive Ordinance regulating and limiting the uses of land and the uses and locations of buildings and structures; regulating and restricting the height and bulk of buildings and structures and determining the area of yards and other open spaces; regulating and restricting the density of population; dividing the Borough of West Wildwood into districts for such purposes; adopting a map of said Borough showing boundaries and the classification of such districts; establishing rules, regulations and standards governing the subdivision and development of land within the Borough; establishing a combined Planning Board and Zoning Board of Adjustment; and prescribing penalties for the violation of its provision.</li> <li>• The Ordinance is adopted pursuant to N.J.S.A. 40:55D-1 et seq., in order to promote and protect the public health, safety, comfort, convenience, prosperity, morals, and general welfare. These general objectives shall include, among others, the specific purposes set forth in the statements of intent of the various regulations for the respective zoning districts. This Ordinance shall be administered to insure the orderly growth and development, the conservation, protection and proper use of land and adequate provisions for circulation, utilities and services, and the conservation and environmental protection of all land, water and air resources within the jurisdiction of the Borough of West Wildwood.</li> <li>• The Ordinance contains Regulations for Coastal Flood Hazard Protection, other Critical Areas and Drainage.</li> </ul>					
<b>Subdivisions</b>	Yes	County & Local	Yes – if municipality has a Planning Board	Yes	-



Section 9.14 - Borough of West Wildwood

	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?	
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<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>Land Development Ordinance, adopted by the Board of Commissioners and last updated in January 2014. Section IX, Design Standards for Subdivision and Site Plans. This section contains detailed descriptions of required Design Standards for Subdivisions and Site Plans and the process for approvals. No subdivision or site plan shall be approved by the Planning Board/Zoning Board unless the plan, development, or use meets the performance standards herein set forth.</li> <li>The Ordinance contains Regulations for Coastal Flood Hazard Protection, other Critical Areas and Drainage.</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>Land Development Ordinance, adopted by the Board of Commissioners and last updated in January 2014. There is not a separate Ordinance, but this Ordinance contains a section on drainage and stormwater controls, common in NJ municipal development ordinances.</li> </ul>					
<b>Post-Disaster Recovery</b>	No	N/A	No	No	-
<p><b>Comment:</b></p>					
<b>Real Estate Disclosure</b>	Yes	State, Division of Consumer Affairs	Yes	No	-
<p><b>Comment:</b></p> <ul style="list-style-type: none"> <li>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.</li> </ul>					
<b>Growth Management</b>	Yes	N/A	Yes - if municipality has a Planning Board	No	-
<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> </ul>					
<b>Site Plan Review</b>	Yes	County & 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</li> </ul>					





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<p>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.</p> <ul style="list-style-type: none"> <li>Land Development Ordinance, adopted by the Board of Commissioners and last updated in January 2014. The Ordinance contains a detailed section of Design Standards for Subdivisions and Site Plans and the process for approvals.</li> <li>The Ordinance contains Regulations for Coastal Flood Hazard Protection, other Critical Areas and Drainage.</li> </ul>					
<b>Environmental Protection</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Flood Damage Prevention</b>	Yes	State & Local	Yes	Yes	-
<p><i>Comment:</i></p> <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>Land Development Ordinance, adopted by the Board of Commissioners and last updated in January 2014. The Ordinance contains a section titled “ Critical Areas, I-84”. It states that the mapping of critical areas within the Borough of West Wildwood is based upon the delineation of flood hazard areas on the Flood Insurance Rate Maps prepared by the Federal Emergency Management Agency dated October 17, 1975</li> <li><u>Regulations for Coastal Flood Hazard Protection</u> <u>Findings:</u> <ul style="list-style-type: none"> <li>The Borough of West Wildwood occupies part of a low-lying barrier island which is exposed constantly to the threat of coastal flooding due to hurricanes, Nor’easters, and storms.</li> <li>The entire Borough of West Wildwood has been designated by the Federal Emergency Management Agency as being exposed to a one percent (1%) or greater chance of being flooded in any given year.</li> <li>The predictable hazards of coastal flooding subject the residents, owners of businesses, and visitors of the Borough to potential loss of life, personal injury, property damage, as well as disruption of commerce, resort activities, and governmental services, all of which adversely affect the public health, safety and welfare.</li> </ul> </li> </ul> <p><u>Purpose – This Section has the following purposes:</u></p> <ul style="list-style-type: none"> <li>To promote and protect the public health, safety and welfare;</li> <li>To minimize the potential for loss of life, personal injury, and public and private property damage from coastal flooding;</li> <li>To protect the public from the economic and social disruption caused by coastal flood damage, and;</li> <li>To minimize the need for rescue relief efforts associated with coastal flooding and generally undertaken at the expense of the general public.</li> </ul>					
<b>Wellhead Protection</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Emergency Management</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Climate Change</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Disaster Recovery Ordinance</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Disaster Reconstruction Ordinance</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Other</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Planning Documents</b>					
<b>Comprehensive / Master Plan</b>	Yes	State & Local	Yes	Yes	-



	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><b>Comment:</b></p> <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 6 years. Further, all zoning ordinances must be consistent with the Master Plan or will not be benefitted from a presumption of validity.</li> <li>West Wildwood Master Plan, dated August 2008. The New Jersey Municipal Land Use Law requires that all municipal Master Plans contain goals and objectives upon which the comprehensive Master Plan is to be based. The individual Master Plan elements provide the means of implementing the established goals. These goals guide the development of the Borough in terms of physical development as well as preservation, open space and protection of the environment.</li> <li>Goals of this Master Plan: <ul style="list-style-type: none"> <li>Create compatible land uses through appropriate zoning designations.</li> <li>Raise quality of life for residents, and increase attractiveness to visitors by improving visual environment of the community.</li> <li>Support existing, and encourage new water-dependent uses available to residents and visitors</li> <li>Meet the retail needs of the residents and visitors and provide a balance of different uses</li> <li>Create public access to environmentally sensitive areas for the enjoyment of residents and to promote eco-tourism</li> <li>Energy conservation.</li> <li>Expand recreational opportunities for residents and visitors.</li> <li>Maximize protection against flooding from tides and storms.</li> </ul> </li> <li>The Master Plan contains a detailed section on Environmental Resources and a Stormwater Management Plan Element.</li> </ul>					
<b>Capital Improvement Plan</b>	Yes	Local	No	Yes	-
<p><b>Comment:</b></p> <ul style="list-style-type: none"> <li>Capital Improvement Budget and Plan 2020. The Borough adopted a three-year Capital Budget which included a \$2,310,000.00 project to improve sewers on Popular &amp; G Avenues.</li> </ul>					
<b>Disaster Debris Management Plan</b>	No	-	Yes	-	2021-West Wildwood-011
<p><b>Comment:</b></p>					
<b>Floodplain or Watershed Plan</b>	No	-	No	-	-
<p><b>Comment:</b></p>					
<b>Stormwater Management Plan</b>	Yes	State & Local	Yes	Yes	-
<p><b>Comment:</b></p> <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>West Wildwood Master Plan, dated August 2008. As previously noted, the Master Plan contains a Stormwater Element.</li> <li>This Stormwater Management Plan (MSWMP) documents the strategy for the Borough of West Wildwood to address stormwater-related impacts. The creation of this plan is required by N.J.A.C. 7:14A-25 Municipal Stormwater Regulations as promulgated by the New Jersey Department of Environmental Regulations. The elements of this plan are specified by N.J.A.C. 7:8-4 Municipal Stormwater Management Planning. The plan addresses groundwater recharge, stormwater quantity, and stormwater quality impacts by incorporating stormwater design and performance standards for new development, defined as projects that disturb one</li> </ul>					



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<i>or more acre of land. These standards are intended to minimize the adverse impact of stormwater runoff on water quality and water quantity. The plan describes long-term operation and maintenance measures for existing and future stormwater facilities.</i>					
<b>Stormwater Pollution Prevention Plan</b>	No	-	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> </ul>					
<b>Urban Water Management Plan</b>	No	-	No	-	-
<b>Comment:</b>					
<b>Habitat Conservation Plan</b>	No	-	No	-	-
<b>Comment:</b>					
<b>Economic Development Plan</b>	No	-	No	-	-
<b>Comment:</b>					
<b>Shoreline Management Plan</b>	No	Local	Yes – if located in a coastal zone	-	-
<b>Comment:</b>					
<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	-	-
<b>Comment:</b>					
<b>Community Forest Management Plan</b>	No	-	No	-	-
<b>Comment:</b>					
<b>Transportation Plan</b>	No	-	No	-	-
<b>Comment:</b>					
<b>Agriculture Plan</b>	No	-	No	-	-
<b>Comment:</b>					
<b>Climate Action Plan</b>	No	-	No	-	-
<b>Comment:</b>					
<b>Tourism Plan</b>	No	-	No	-	-
<b>Comment:</b>					
<b>Business Development Plan</b>	No	-	No	-	-
<b>Comment:</b>					
<b>Other</b>	No	-	No	-	-



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<i>Comment:</i>					
•					
<b>Response/Recovery Planning</b>					
<b>Comprehensive Emergency Management Plan (CEMP) / Emergency Operations Plan (EOP)</b>	Yes	Local	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>In conjunction with and support of the Cape May County Office of Emergency Management, the Borough maintains a CEMP.</li> </ul>					
<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>	No	-	No	-	-
<i>Comment:</i>					
<b>Public Health Plan</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Other</b>	No	-	No	-	-
<i>Comment:</i>					

**Table 9.14-4. Development and Permitting Capability**

Criterion	Response
Does your jurisdiction issue development permits? - If no, who does? If yes, which department?	Yes, Zoning Officer
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.	Yes. As reported in the 2019 Master Plan, 119 parcels totaling 30.18 Acres, this is 15.7% of all parcels and 24.9% of Borough Land Area. This excludes Rights of Way, Conservative Districts, Water Ways and municipally owned properties.

**ADMINISTRATIVE AND TECHNICAL CAPABILITY**

The table below summarizes potential staff and personnel resources available to the Borough of West Wildwood.

**Table 9.14-5. Administrative and Technical Capabilities**

Staff/Personnel Resource	Available?	Department/Agency/Position
<b>Administrative Capability</b>		
Planning Board	Yes	Planning Board
Mitigation Planning Committee	No	-







Staff/Personnel Resource	Available?	Department/Agency/Position
Environmental Board / Commission	No	-
Open Space Board / Committee	Yes	Cape May County
Economic Development Commission / Committee	No	-
Warning Systems / Services (reverse 911, outdoor warning signals)	Yes	Emergency Management
Maintenance program to reduce risk	No	-
Mutual aid agreements	Yes	City of Wildwood/ Cape May County
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	Yes	Borough Engineer Remington & Vernick
Engineers or professionals trained in building or infrastructure construction practices	Yes	Borough Engineer Remington & Vernick
Planners or engineers with an understanding of natural hazards	Yes	Borough Engineer Remington & Vernick
Staff with training in benefit/cost analysis	Yes	Business Administrator & CFO
Staff with training in green infrastructure	Yes	Borough Engineer
Staff with education/knowledge/training in low impact development	Yes	Wildwood Construction Office All new construction conforms with the 2018 IECC and rehab projects follow the NJ Uniform Construction Code
Surveyor	Yes	Borough Engineer
Stormwater engineer	Yes	Francis Pellegrino, Supervisor, Department of Public Works.
Personnel skilled or trained in GIS applications	Yes	Borough Engineer
Local or state water quality professional	Yes	City of Wildwood Water Department provides water for all four Wildwoods
Scientist familiar with natural hazards in local area	No	-
Emergency manager	Yes	Francis Pellegrino, OEM
Watershed planner	Yes	City of Wildwood Water Department provide all services and personnel
Environmental specialist	No	-
Grant writers	Yes	Business Administrator
Resilience Officer	No	-
Other	No	-

**FISCAL CAPABILITY**

The table below summarizes financial resources available to the Borough of West Wildwood.

**Table 9.14-6. Fiscal Capabilities**

Financial Resource	Accessible or Eligible to Use?
Community Development Block Grants (CDBG, CDBG-DR)	Yes/ None currently
Capital Improvements Project Funding	Yes – Through Bond Ordinance
Authority to Levy Taxes for Specific Purposes	Yes
User Fees for Water, Sewer, Gas or Electric Service	Yes-sewer
Incur Debt through General Obligation Bonds	Yes
Incur Debt through Special Tax Bonds	Yes
Incur Debt through Private Activity Bonds	No
Withhold Public Expenditures in Hazard-Prone Areas	No
State-Sponsored Grant Programs	Yes
Development Impact Fees for Homebuyers or Developers	No
Clean Water Act 319 Grants (Nonpoint Source Pollution)	No





Other	Yes, USDA Rural Development
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### EDUCATION AND OUTREACH CAPABILITY

The table below summarizes the education and outreach resources available to the Borough of West Wildwood.

**Table 9.14-7. 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?	Yes, George Edgar Joyce
Do you have hazard mitigation information available on your website? -If yes, briefly describe.	Yes, Cape May County Hazard Mitigation Plan pamphlet Describing “What is a hazard mitigation plan”.
Do you use social media for hazard mitigation education and outreach? -If yes, briefly describe.	Yes. Along with the County Pamphlet, Suggestions from the public are encouraged to be submitted to the Borough Clerks Office by mail.
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.	Periodic public outreach/ presentations advertised and performed at Borough Hall to specifically address and educate on flood hazard risks.

### COMMUNITY CLASSIFICATIONS

The table below summarizes the classifications for community programs available to the Borough of West Wildwood.

**Table 9.14-8. Community Classifications**

Program	Participating?	Classification	Date Classified
Community Rating System	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (Fire ISO Protection Class)	No	-	-
Storm Ready Certification	No	-	-
Firewise Community Classification	No	-	-
Sustainable Jersey	No	-	-

### 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 9.14-9. Adaptive Capacity**

Hazard	Adaptive Capacity (Capabilities) - Strong/Moderate/Weak
Climate Change and Sea Level Rise	Moderate
Coastal Erosion	Moderate
Disease Outbreak (new)	Moderate





Hazard	Adaptive Capacity (Capabilities) - Strong/Moderate/Weak
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 Borough does not currently have access to resources to determine the possible impacts of climate change upon the municipality. However, the administration is supportive of integrating climate change in policies or actions. The present administration has been involved in a Living Shoreline Project with financial support already expended.

**NATIONAL FLOOD INSURANCE PROGRAM**

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

**Table 9.14-10. National Flood Insurance Program Compliance**

Criterion	Response
What local department is responsible for floodplain management?	Construction Official
Who is your floodplain administrator? (name, department/position)	Ray Poudrier
Are any certified floodplain managers on staff in your jurisdiction?	John Fearheller, PE, PP
What is the date that your flood damage prevention ordinance was last amended?	July 7, 2017
Does your floodplain management program meet or exceed minimum requirements? -If exceeds, in what ways?	Floodplain Ordinance meets Requirements.
When was the most recent Community Assistance Visit or Community Assistance Contact?	The most recent Community Assistance Visit was held June 12, 2015.
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.	No
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, the Borough is interested in rejoining the program.
How many flood insurance policies are in force in your jurisdiction?*	404 policies
-What is the insurance in force? -What is the premium in force?	
How many total loss claims have been filed in your jurisdiction?*	2,133 claims
-How many claims are still open or were closed without payment? -What were the total payments for losses?	\$213,797 in payments
Do you maintain a list of properties that have been damaged by flooding?	Yes





Criterion	Response
Do you maintain a list of property owners interested in flood mitigation?	Yes

\*According to FEMA statistics as of October 2020

**ADDITIONAL AREAS OF EXISTING INTEGRATION**

- **Stormwater Management:** The Borough is a MS4 Regulated Community and has stormwater management plan that identifies projects, actions or initiatives to mitigate stormwater flooding. (Note: Capability assessment said Borough was not an MS4 community)
- **Open Space:** The Borough continues to work with the County of Cape May concerning open space acquisition. The latest is the Bay Ave waterfront Development Plan which will allow for the acquisition of three waterfront building lots which will be restricted as Open Space.
- **Land Use Planning:** The City has a municipal planner that assists with and reviews any related issues to natural hazard risk reduction along with local planning board. Planning Board reviews all variances and all new development to ensure compliance with all regulations related to the project to include Coastal Area Facility Review Act.
- **Stormwater Management:** Stormwater Management functions in the community are performed by Francis Pellegrino, Supervisor, Department of Public Works.
- **Technical Resources:** The City has staff that can perform Substantial Damage estimates, and grant application preparation. Benefit-cost analysis is provided by contract support. City staff receive training and education in support of natural hazard risk reduction through the Nature Conservatory along with membership and monthly participation in the Coastal Coalition Group of Atlantic and Cape May County.
- **Administration:** Staff participate in associations and organizations the support natural hazard risk reduction capabilities including the Coastal Coalition Group of Atlantic and Cape May County.
- **NIMS Compliance:** The Municipal Emergency Manager, with support from the County OEM and New Jersey OEM, continue to develop, enhance, and implement existing emergency plans and ensure NIMS compliance.
- **Public Outreach:** Emergency Management and the Borough Administration are partnering to continue to enhance public outreach and education on natural hazard risk, preparedness and mitigation, specifically through the following activities:
  - Continue to update emergency contact information for Borough residents (from website)
  - Provide information regarding natural hazards on the Borough website

**9.14.5 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 Borough of West Wildwood’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 9.14-11 provides details regarding municipal-specific loss and damages the Borough experienced during hazard events. Information provided in the table below is based on reference material or local sources.



**Table 9.14-11. 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 23, 2016	Winter Storm Jonas	DR-4264	Coastal storm with major coastal flooding and high winds.	Although the County was impacted, the Borough of West Wildwood did not report damages.
July 10, 2020	Tropical Storm Fay	No	Tropical Storm with moderate flooding and high winds.	Although the County was impacted, the Borough of West Wildwood did not experience damages.
January 20, 2020-continuing	Covid-19 Pandemic	DR-4488, EM-3451	The coronavirus pandemic resulted in hospitalizations, death.	Although the County was impacted, the Borough of West Wildwood did not experience damages.
August 4, 2020	Tropical Storm Isias	Pending	Tropical Storm with high winds.	Although the County was impacted, the Borough of West Wildwood did not experience damages.

Source: NOAA NCEI 2020, FEMA 2020

### 9.14.6 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 Borough of West Wildwood 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 Borough of West Wildwood.

- Number of repetitive loss (RL) properties: 228
- Number of severe repetitive loss (SRL) properties: 118
- Number of RL/SRL properties that have been mitigated: 36

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 9.14-12. Potential Flood Losses to Critical Facilities and Lifelines**

Name	Type	Exposure		Notes
		1% Event	0.2% Event	
WEST WILDWOOD VOLUNTEER FIRE COMPANY	Fire Stations		X	The public works /Fire Department Emergency Management Building is constructed above the 100-year base flood elevation
B & E Marina	Marinas	X	X	-
Gallo's Marina	Marinas	X	X	-
Spray Dock Marina	Marinas	X	X	-





Name	Type	Exposure		Notes
		1% Event	0.2% Event	
West Bay Marina	Marinas	X	X	-
C Marina	Marinas	X	X	-
West Wildwood Police Department	Police Stations	X	X	-
Neptune Pump Station	Wastewater Treatment Facilities	X	X	-
BOROUGH HALL	Polling Places, Municipal Facility	X	X	Located in AE Elevation 9 zone. Building was constructed in 1962, with renovations to the building elevating the floor to a base flood elevation of 10ft NGVD 1929. The buildings structural limitation preclude additional flood protection without building replacement.

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

Note:

\*Identified lifeline

### IDENTIFIED ISSUES

The jurisdiction has identified the following vulnerabilities within their community:

- The Borough has 228 remaining unmitigated repetitive loss properties and 118 severe repetitive loss properties.
- It is the policy of the Borough to elevate roadways as part of maintenance projects. The following roadways require elevation:
  - Neptune Avenue from North Drive to Poplar Avenue.
  - Maple Avenue from Neptune Avenue eastward to Lake Road and Lake Road to the County Glenwood Avenue Bridge.
  - These two are prioritized over other roadways for two reasons: A) access to the Borough Fire Department Building which is the only Fire Department Fire Building in the Wildwoods not in the floodplain and B) the upward revision of the roadway elevations would not require redesign of the stormwater collection system.
- Glenwood Avenue is a County Roadway that requires elevation and should be prioritized by the County.
- Construction of the 26<sup>th</sup> Street Wave Attenuation System would benefit the Borough as a whole.
- Construction of additional facilities above the floodplain in the X Zone at the Public Works Building completing the original 3,600 square feet footprint.
- The Public Works/Fire Department/Emergency Management Office Building has an existing 30 kW army surplus diesel generator manufacture in June 1985. Given the 35-year-old age of the generator, replacement is recommended.
- The sanitary pump station operated by the Borough relies on portable powers.
- The Arion Avenue Drainage System did not have the full design constructed in 2007 and requires the full completion of the design. The Avenue E Drainage System also did not have its full design constructed in 2002 and requires full completion of the design.
- The Lake Road Drainage System requires extension from Maple Avenue to Pine Avenue.
- City Hall is floodprone. The building was constructed in 1962. Renovations to the building have elevated the floor elevation of the offices to the base flood elevation but the building’s structural limitations preclude any additional flood protection without building replacement. The building requires



relocation at the Public Works/Fire Department/Emergency Management Building which is located in the X zone.

**HAZARD AREA EXTENT AND LOCATION**

Hazard area extent and location maps were generated for the Borough of West Wildwood 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 Borough of West Wildwood has significant exposure. A map of the Borough of West Wildwood 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 Borough of West Wildwood. The Borough of West Wildwood 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 Borough indicated the following:

- The Borough agreed with the calculated hazard rankings.

**Table 9.14-13. Borough of West Wildwood Hazard Ranking Input**

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

**9.14.7 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 9.14-14. 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 #
BWW-1a	Property Mitigation Support – Retrofit: Where appropriate, support retrofitting (e.g. elevation) of structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority.	Borough (likely through NFIP Floodplain Administrator)	In Progress	X	2021-West Wildwood-001
BWW-1b	Property Mitigation Support – Acquisition/Relocation: Where appropriate, support acquisition and/or relocation of structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority.	Borough	No Progress, not feasible		
BWW-2	Work with FEMA and ISO to re-establish participation in CRS.	Borough	In Progress	X	2021-West Wildwood-009
BWW-3	Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0	Borough (through mitigation planning point of contacts)	Ongoing Capability		
BBW-4	NFIP Continued Compliance: Continue to maintain compliance with, and good-standing in the National Flood Insurance program.	Municipality (likely through NFIP Floodplain Administrator)	Ongoing Capability		
BWW-5	Emergency Management Plans: Continue to develop, enhance, and implement existing emergency plans and ensure NIMS compliance.	Municipal Emergency Manager with support from County OEM and NJOEM	Ongoing Capability		
BWW-6	Mutual Aid: Create/enhance/maintain mutual aid agreements with neighboring communities and continue cooperation and support with the City of Wildwood.	Borough	Ongoing Capability		
BWW-7	Continue to support County-wide initiatives identified in Section 9.1 of the County Annex.	Local departments (as applicable for specific initiative)	Ongoing Capability		
BWW-8	Regional Bulkheading Project with all Wildwoods: Elevate bulkhead heights and replace all municipal bulkhead to new ordinance elevations. Borough	Municipality (engineering and DPW)	In Progress	X	2021-West Wildwood-010





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 #
	to develop ordinance to allow local code official to issue summons for non-compliance regarding bulkhead heights.				
BWW-9	Work with the County of Cape May to address flooding on Glenwood Avenue (CR-614) through West Wildwood	County of Cape May, Borough	In Progress	X	2021-West Wildwood-008
BWW-10	Reconstruction of Neptune Avenue from Glenwood Avenue to the North Drive entrance to the Fire House – Public Works site.	Municipal Engineering and DPW	Complete		
BWW-11	Backup power for Police Administration Building.	Municipal Engineering and DPW	Complete		
BWW-12	The peninsula along 26th street which serves as a breakwater for homes on the north side of Poplar Ave is eroding exposing a greater risk to those homes of storm damage. The Borough is working with the Nature Conservancy under the N.J. Resilient Coastline Initiative to develop a Nature Based Living Shoreline Project to address the erosion. This will enhance the Borough’s resiliency during weather events.	Borough, working with Nature Conservancy	In Progress, approval still pretending	X	2021-West Wildwood-005
BWW-13	Continue to enhance public outreach and education on natural hazard risk, preparedness and mitigation, specifically through the following activities: •Continue to update emergency contact information for Borough residents (from website) •Provide information regarding natural hazards on the Borough website	Emergency Management, Borough Administration	Ongoing Capability		

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

- Reconstruction of Pine Avenue and Avenue O. The reconstruction of roadways included elevation to improve flood resiliency.
- Glenwood Avenue, bulkhead replacement and ADA access ramps to the beach.
- 2016 Road Program: Avenue S, Mueller Avenue, Avenue P, Avenue Q, and Avenue R were reconstructed with elevation and drainage to improve flood resiliency.

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

The Borough of West Wildwood 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 Borough





of West Wildwood 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 9.14-15 summarizes the comprehensive-range of specific mitigation initiatives the Borough of West Wildwood 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 9.14-16 provides a summary of the prioritization of all proposed mitigation initiatives for this HMP update.



Table 9.14-15. 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-West Wildwood-001	Repetitive Loss Mitigation	<p><b>Problem:</b> 228 remaining unmitigated repetitive loss properties and 118 severe repetitive loss properties. There is no room to relocate properties within the Borough.</p> <p><b>Solution:</b> Conduct outreach to 300 flood-prone property owners, including RL/SRL property owners and provide information on mitigation alternatives. After preferred mitigation measures are identified, collect required property-owner information and develop a FEMA grant application and BCA to obtain funding to implement elevating residential homes in the flood prone areas that experience frequent flooding (high risk areas).</p>	Existing	Flood, Severe Weather	1	NFIP Floodplain Administrator, supported by homeowners	FEMA HMGP and FMA, local cost share by residents	Eliminates flood damage to homes and residents	\$30 million	3 years	High	SIP	PP
2021-West Wildwood-002	Relocation of City Hall	<p><b>Problem:</b> City Hall is floodprone. The building was constructed in 1962. Renovations to the building have elevated the floor elevation of the offices to the base flood elevation but the building's structural limitations preclude any additional flood protection without building replacement. The building requires relocation.</p> <p><b>Solution:</b> The Borough will complete construction of additional facility space at the Public Works Building above the floodplain in the X Zone completing the original 3,600 square feet footprint.</p>	Existing	Flood, Severe Weather	1, 3	Administration, Engineer, Public Works	FEMA HMGP and PDM, BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Borough Budget	Protection of critical services, flood risk reduced	High	Within 5 years	High	SIP	PP
2021-West Wildwood-003	Public Works and Fire Department Generator	<p><b>Problem:</b> The Public Works/Fire Department/Emergency Management Office Building has an existing 30 kW army surplus diesel generator manufacture in June 1985. Given the 35-year-old age of the generator, replacement is recommended.</p>	Existing	Severe Weather, Severe Winter Weather, Hurricane, Nor'Easter	3, 4	Engineer, Public Works	FEMA HMGP and BRIC, USDA Community Facilities Grant	Ensures continuity of operations of Public Works	\$50,000	Within 5 years	ES	SIP	ES



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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
		<b>Solution:</b> The Borough will purchase and install the selected replacement generator and necessary electrical components to supply backup power to the Public Works and Fire Department complex.					Program, Emergency Management Performance Grants (EMPG) Program, Municipal Budget	and Fire Department					
2021-West Wildwood-004	Extension of Lake Road and Completion of Arion Avenue and Avenue E Drainage Systems	<b>Problem:</b> The Lake Road Drainage System requires extension from Maple Avenue to Pine Avenue. The Arion Avenue Drainage System did not have the full design constructed in 2007 and requires the full completion of the design. The Avenue E Drainage System also did not have its full design constructed in 2002 and requires full completion of the design. <b>Solution:</b> Public Works will install the identified completions and extensions of stormwater systems. In situations where the roadway needs to be replaced, the Borough will look to raise the roadway elevation in continuation with Borough policy for roadway improvements.	Existing	Flood, Severe Weather	1	Engineer, Public Works	HMGP, BRIC, Borough budget	Increase d drainage , reduction in flooding	High	Wit hin 5 year s	High	SIP	SP
2021-West Wildwood-005	Wave Attenuation System	<b>Problem:</b> The peninsula along 26th street which serves as a breakwater for homes on the north side of Poplar Ave is eroding exposing a greater risk to those homes of storm damage. <b>Solution:</b> The Borough is working with the Nature Conservancy under the N.J. Resilient Coastline Initiative to develop a Nature Based Living Shoreline Project to address the erosion. This will enhance the Borough's resiliency during weather events.	Existing	Coastal Erosion	1, 5	Borough working with Nature Conservancy	N.J. Resilient Coastline Initiative, Borough budget	Reducti on in coastal erosion risk	Mediu m	2 year s	High	NSP	NR
2021-West Wildwood-006	Roadway Elevations	<b>Problem:</b> It is the policy of the Borough to elevate roadways as part of maintenance projects. The following roadways require elevation:	Existing	Flood, Severe Weather, Climate	1	Engineer, Public Works	HMGP, BRIC, Borough budget	Flood risk reduced. Access	High	2 year s	High	SIP	PP





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
		<ul style="list-style-type: none"> <li>•Neptune Avenue from North Drive to Poplar Avenue.</li> <li>•Maple Avenue from Neptune Avenue eastward to Lake Road and Lake Road to the County Glenwood Avenue Bridge.</li> </ul> <p><b>Solution:</b> The Borough will complete elevation of the roadways. These two are prioritized over other roadways for two reasons: A) access to the Borough Fire Department Building which is the only Fire Department Fire Building in the Wildwoods not in the floodplain and B) the upward revision of the roadway elevations would not require redesign of the stormwater collection system.</p>		Change and Sea Level Rise				to critical facilities maintained					
2021-West Wildwood-007	Permanent Generator for Sanitary Pump Station	<p><b>Problem:</b> The sanitary pump station only has a portable backup generator. This requires deployment during power outages.</p> <p><b>Solution:</b> The Borough will purchase and install a permanent generator for the sanitary pump station.</p>	Existing	Severe Weather, Severe Winter Weather, Hurricane, Nor'Easter	1, 3	Engineer, Public Works	FEMA HMGP and BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Municipal Budget	Ensures continuity of operations of sanitary pump station	\$40,000	Within 5 years	High	SIP	ES
2021-West Wildwood-008	Glenwood Avenue	<p><b>Problem:</b> Glenwood Avenue is a County Roadway that requires elevation and should be prioritized by the County.</p> <p><b>Solution:</b> The Borough will hold discussions with the County to discuss the needs of the Borough for elevation and support the implementation process.</p>	Existing	Flood, Severe Weather, Climate Change and Sea Level Rise	1	County, Administration	County, Borough budget	Glenwood meets roadway levels of rest of Borough, flood risk reduced	Staff time	Within 6 months	High	EAP	PI





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-West Wildwood-009	Community Rating System Enrollment	<b>Problem:</b> The Borough is interested in enrollment in the Community Rating System. <b>Solution:</b> The Borough will reach out to NJ DEP and ISO to pursue entry into the CRS program.	Both	Flood	2	Administration	Borough budget	Increase floodplains in administration	Staff time	Within 2 years	High	LPR, EAP	PR, PP, PI
2021-West Wildwood-010	Regional Bulkheading Project with all Wildwoods	<b>Problem:</b> Elevate bulkhead heights and replace all municipal bulkhead to new ordinance elevations. Borough to develop ordinance to allow local code official to issue summons for non-compliance regarding bulkhead heights. <b>Solution:</b> Elevate bulkhead heights and replace all municipal bulkhead to new ordinance elevations. Borough to develop ordinance to allow local code official to issue summons for non-compliance regarding bulkhead heights.	Existing	Coastal Erosion, Flood	1	Public Works, Engineer	Borough budget	Consistent bulkhead heights and standards	Staff time for ordinance, High for Borough bulkheads	Within 5 years	High	LPR, SIP	PP, PR
2021-West Wildwood-011	Disaster Debris Management Plan	<b>Problem:</b> The Borough lacks a Disaster Debris Management Plan. <b>Solution:</b> The Borough will develop and adopt a Disaster Debris Management Plan.	Existing	All Hazards	4, 6	OEM, Public Works	Borough budget	Plan in place to address post event debris	Staff time	1 year	High	LPR	ES

Notes:

Acronyms and Abbreviations:

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

Potential FEMA HMA Funding Sources:

FMA Flood Mitigation Assistance Grant Program  
 HMGP Hazard Mitigation Grant Program  
 BRIC Building Resilient Infrastructure and Communities Program

Timeline:

The time required for completion of the project upon implementation

Cost:

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 9.14-16. 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-West Wildwood-001	Repetitive Loss Mitigation	1	1	1	1	1	1	0	1	1	0	1	0	1	1	11	High
2021-West Wildwood-002	Relocation of City Hall	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High
2021-West Wildwood-003	Public Works and Fire Department Generator	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High
2021-West Wildwood-004	Extension of Lake Road and Completion of Arion Avenue and Avenue E Drainage Systems	0	1	1	1	1	1	0	1	1	1	1	0	1	1	11	High
2021-West Wildwood-005	Wave Attenuation System	0	1	1	1	1	0	1	1	1	1	0	1	1	1	11	High
2021-West Wildwood-006	Roadway Elevations	1	1	1	1	1	1	0	1	1	1	1	1	1	1	13	High
2021-West Wildwood-007	Permanent Generator for Sanitary Pump Station	0	1	1	1	1	1	0	1	1	1	1	0	1	1	11	High
2021-West Wildwood-008	Glenwood Avenue	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High
2021-West Wildwood-009	Community Rating System Enrollment	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High
2021-West Wildwood-010	Regional Bulkheading Project with all Wildwoods	0	1	1	1	0	1	1	1	1	1	1	0	1	1	11	High
2021-West Wildwood-011	Disaster Debris Management Plan	0	1	1	1	1	1	1	1	1	1	1	1	1	1	13	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 9.14-17. 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
Coastal Erosion	X	X		X	X			X
Disease Outbreak (new)					X			X
Drought (new)					X			X
Flood	X	X	X		X	X	X	X
Hurricane					X			X
Nor' Easter					X			X
Severe Weather		X	X		X	X	X	X
Severe Winter Weather					X			X
Tsunami					X			X
Wildfire					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 9.14-1. Borough of West Wildwood Hazard Area Extent and Location Map 1

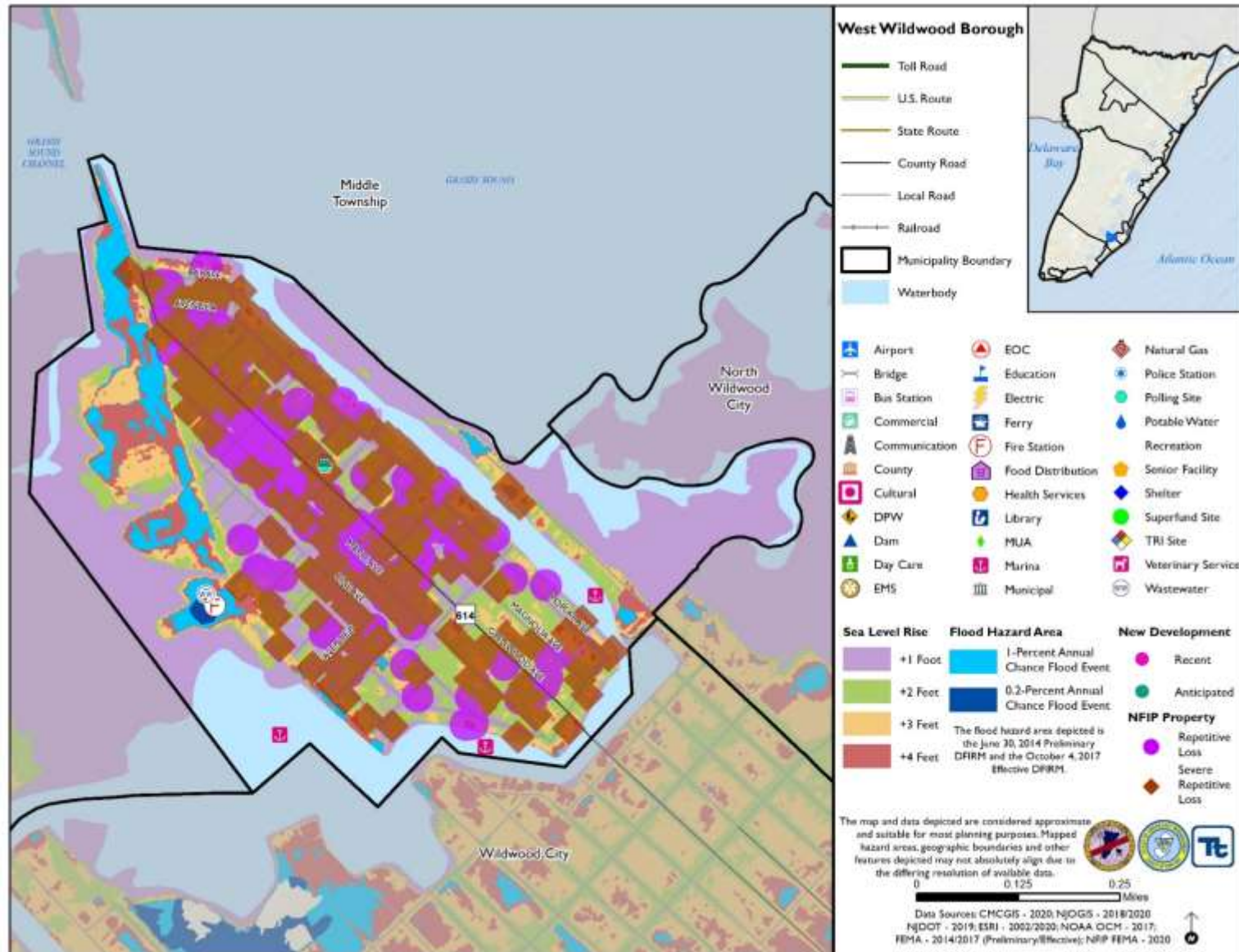




Figure 9.14-2. Borough of West Wildwood Hazard Area Extent and Location Map 2

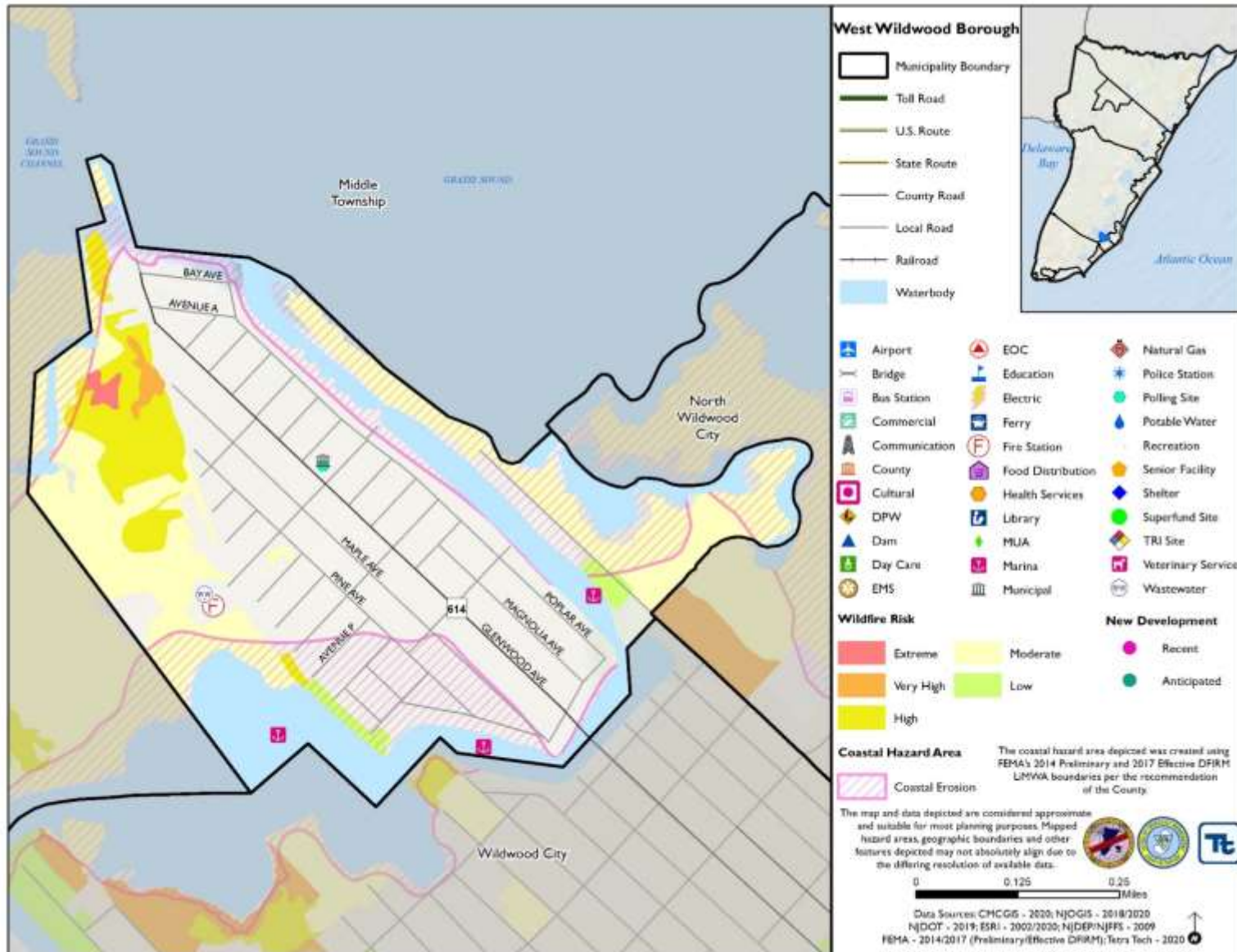
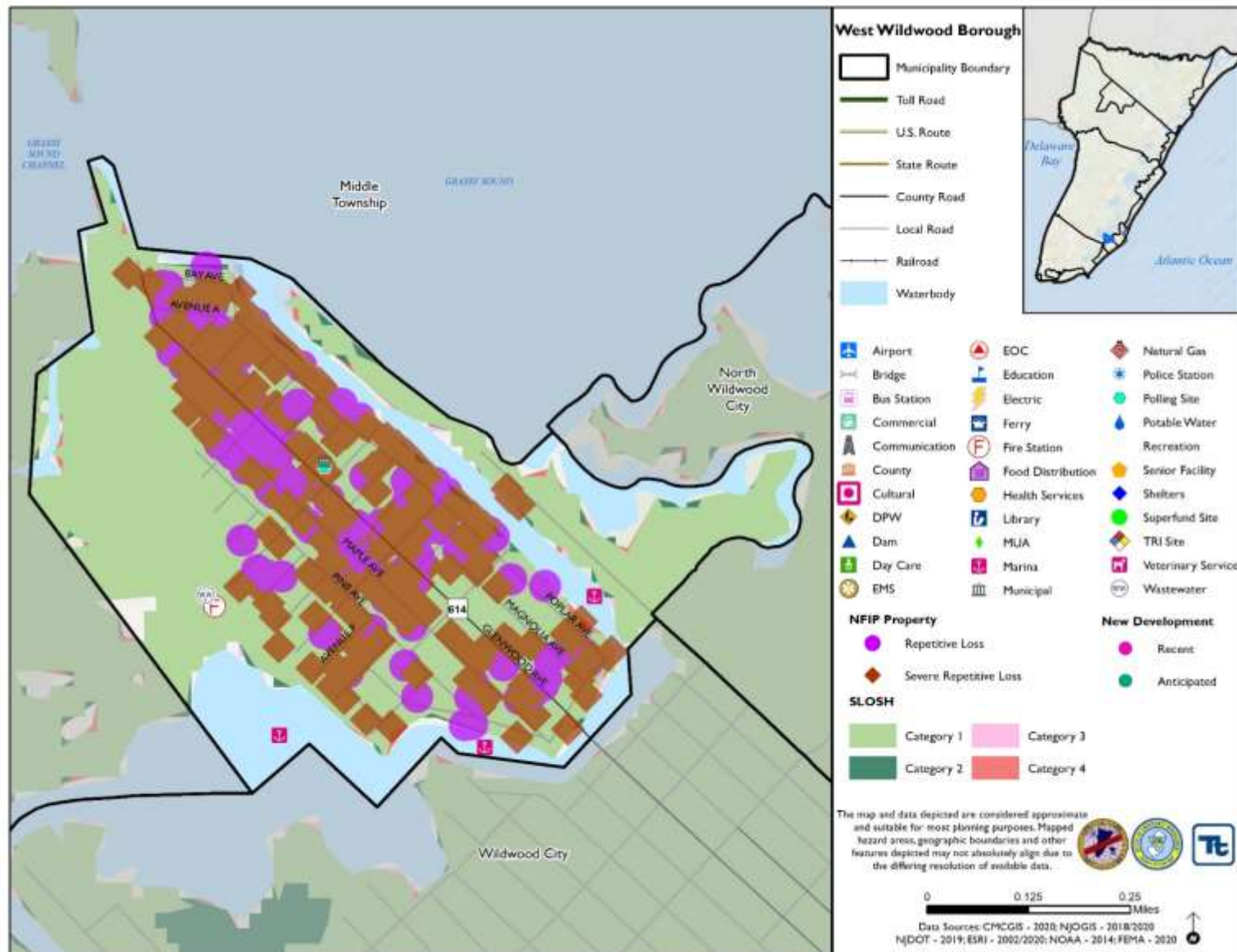




Figure 9.14-3. Borough of West Wildwood Hazard Area Extent and Location Map 3





Action Worksheet			
<b>Project Name:</b>	Repetitive Loss Mitigation		
<b>Project Number:</b>	2021-West Wildwood-001		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Flood, Severe Weather		
<b>Description of the Problem:</b>	Frequent flooding events have resulted in damages to residential properties. These properties have been repetitively flooded as documented by paid NFIP claims. There are 228 remaining unmitigated repetitive loss properties and 118 severe repetitive loss properties.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Conduct outreach to 300 flood-prone property owners, including RL/SRL property owners and provide information on mitigation alternatives. After preferred mitigation measures are identified, collect required property-owner information and develop a FEMA grant application and BCA to obtain funding to implement elevating 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
<b>Useful Life:</b>	Acquisition: Lifetime Elevation: 30 years (residential)	<b>Goals Met:</b>	1
<b>Estimated Cost:</b>	\$30 Million	<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, 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)			
<b>Alternatives:</b>	<b>Action</b>	<b>Estimated Cost</b>	<b>Evaluation</b>
	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>	Repetitive Loss Mitigation	
<b>Project Number:</b>	2021-West Wildwood-001	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Families protected from flood areas.
Property Protection	1	Properties protected from flood risk
Cost-Effectiveness	1	Cost-effective project
Technical	1	Technically feasible project
Political	1	
Legal	1	The Borough has the legal authority to conduct the project.
Fiscal	0	Project will require grant funding.
Environmental	1	
Social	1	
Administrative	0	
Multi-Hazard	1	Flood, Severe Weather
Timeline	0	
Agency Champion	1	NFIP Floodplain Administrator, supported by homeowners
Other Community Objectives	1	
<b>Total</b>	11	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	Relocation of City Hall		
<b>Project Number:</b>	2021-West Wildwood-002		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Flood, Severe Weather		
<b>Description of the Problem:</b>	City Hall is floodprone. The building was constructed in 1962. Renovations to the building have elevated the floor elevation of the offices to the base flood elevation but the building's structural limitations preclude any additional flood protection without building replacement. The building requires relocation.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	The Borough will complete construction of additional facility space at the Public Works Building above the floodplain in the X Zone completing the original 3,600 square feet footprint.		
<b>Is this project related to a Critical Facility?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
<b>Level of Protection:</b>	500-year flood level	<b>Estimated Benefits (losses avoided):</b>	Ensures continuity of operations of City Hall and reduces flood risk
<b>Useful Life:</b>	100 years	<b>Goals Met:</b>	1, 3
<b>Estimated Cost:</b>	High	<b>Mitigation Action Type:</b>	Structure and Infrastructure Projects (SIP)
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Within 5 years
<b>Estimated Time Required for Project Implementation:</b>	2 years	<b>Potential Funding Sources:</b>	FEMA HMGP and PDM, BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Borough Budget
<b>Responsible Organization:</b>	Engineer, Administration, Public Works	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Hazard Mitigation, Emergency Management
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Elevate City Hall	N/A	Not possible due to structural limitations of building
	Build levee around facility	N/A	No space for full levee system
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>	Relocation of City Hall	
<b>Project Number:</b>	2021-West Wildwood-002	
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 City Hall
<b>Property Protection</b>	1	Project will protect City Hall from flood damage.
<b>Cost-Effectiveness</b>	1	
<b>Technical</b>	1	
<b>Political</b>	1	
<b>Legal</b>	1	The Borough 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>	1	Flood, Severe Weather
<b>Timeline</b>	0	Within 5 years
<b>Agency Champion</b>	1	Engineer, Administration, Public Works
<b>Other Community Objectives</b>	1	Protection of critical services
<b>Total</b>	12	
<b>Priority (High/Med/Low)</b>	High	





Action Worksheet			
<b>Project Name:</b>	Public Works and Fire Department Generator		
<b>Project Number:</b>	2021-West Wildwood-003		
<b>Risk / Vulnerability</b>			
<b>Hazard(s) of Concern:</b>	Severe Weather, Severe Winter Weather, Hurricane, Nor'Easter		
<b>Description of the Problem:</b>	The Public Works/Fire Department/Emergency Management Office Building has an existing 30 kW army surplus diesel generator manufacture in June 1985. Given the 35-year-old age of the generator, replacement is recommended.		
<b>Action or Project Intended for Implementation</b>			
<b>Description of the Solution:</b>	The Borough will purchase and install the selected replacement generator and necessary electrical components to supply backup power to the Public Works and Fire Department complex.		
<b>Is this project related to a Critical Facility?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
<b>Level of Protection:</b>	Assumed 30kW	<b>Estimated Benefits (losses avoided):</b>	Ensures continuity of operations of Public Works and Fire Department
<b>Useful Life:</b>	20 years	<b>Goals Met:</b>	3, 4
<b>Estimated Cost:</b>	\$50,000	<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>	Within 5 years
<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>	Engineer, Public Works	<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>	Public Works and Fire Department Generator	
<b>Project Number:</b>	2021-West Wildwood-003	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect critical services of Public Works Maintenance Building
Property Protection	1	Project will protect building from power loss.
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The Borough has the legal authority to complete the project.
Fiscal	0	Project requires funding support.
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	Severe Weather, Severe Winter Weather, Hurricane, Nor'Easter
Timeline	0	Within 5 years
Agency Champion	1	Engineer, Public Works
Other Community Objectives	1	
<b>Total</b>	12	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	Extension of Lake Road and Completion of Arion Avenue and Avenue E Drainage Systems		
<b>Project Number:</b>	2021-West Wildwood-004		
<b>Risk / Vulnerability</b>			
<b>Hazard(s) of Concern:</b>	Flood, Severe Weather		
<b>Description of the Problem:</b>	The Lake Road Drainage System requires extension from Maple Avenue to Pine Avenue. The Arion Avenue Drainage System did not have the full design constructed in 2007 and requires the full completion of the design. The Avenue E Drainage System also did not have its full design constructed in 2002 and requires full completion of the design.		
<b>Action or Project Intended for Implementation</b>			
<b>Description of the Solution:</b>	Public Works will install the identified completions and extensions of stormwater systems. In situations where the roadway needs to be replaced, the Borough will look to raise the roadway elevation in continuation with Borough policy for roadway improvements.		
<b>Is this project related to a Critical Facility?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
<b>Level of Protection:</b>	According to design specifications	<b>Estimated Benefits (losses avoided):</b>	Increased drainage, reduction in flooding
<b>Useful Life:</b>	20 years	<b>Goals Met:</b>	1
<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>	Within 5 years	<b>Potential Funding Sources:</b>	HMGP, BRIC, Borough budget
<b>Responsible Organization:</b>	Engineer, Public Works	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Hazard mitigation, Stormwater 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.
	Buyout homes exposed to flooding	High	Costly
	Close roadways that experience flooding	Low	Loss of access
<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>	Extension of Lake Road and Completion of Arion Avenue and Avenue E Drainage Systems	
<b>Project Number:</b>	2021-West Wildwood-004	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	Properties protected from flooding
Cost-Effectiveness	1	
Technical	1	The project is technically feasible
Political	1	
Legal	1	The Borough has the legal authority to complete the project
Fiscal	0	Project requires funding support
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	Flood, Severe Weather
Timeline	0	Within 5 years
Agency Champion	1	Engineer, Public Works
Other Community Objectives	1	
<b>Total</b>	11	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	Roadway Elevations		
<b>Project Number:</b>	2021-West Wildwood-006		
<b>Risk / Vulnerability</b>			
<b>Hazard(s) of Concern:</b>	Flood, Severe Weather, Climate Change and Sea Level Rise		
<b>Description of the Problem:</b>	<p>It is the policy of the Borough to elevate roadways as part of maintenance projects. The following roadways require elevation:</p> <ul style="list-style-type: none"> <li>• Neptune Avenue from North Drive to Poplar Avenue.</li> <li>• Maple Avenue from Neptune Avenue eastward to Lake Road and Lake Road to the County Glenwood Avenue Bridge.</li> </ul>		
<b>Action or Project Intended for Implementation</b>			
<b>Description of the Solution:</b>	The Borough will complete elevation of the roadways. These two are prioritized over other roadways for two reasons: A) access to the Borough Fire Department Building which is the only Fire Department Fire Building in the Wildwoods not in the floodplain and B) the upward revision of the roadway elevations would not require redesign of the stormwater collection system.		
<b>Is this project related to a Critical Facility?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
<b>Level of Protection:</b>	6" to 12" elevation	<b>Estimated Benefits (losses avoided):</b>	Flood risk reduced. Access to critical facilities maintained
<b>Useful Life:</b>	50 years	<b>Goals Met:</b>	1
<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 2 years
<b>Estimated Time Required for Project Implementation:</b>	1 year	<b>Potential Funding Sources:</b>	HMGP, BRIC, Municipal budget
<b>Responsible Organization:</b>	Engineer, Public Works	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Hazard mitigation planning, Stormwater 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.
	Remove flood prone roadway	N/A	Loss of access to neighborhoods, increased emergency risk
	Buyout properties that exist along flood prone roadways	\$Tens of Millions	Costly, loss of large portion of community
<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>			



Evaluation and Prioritization		
<b>Project Name:</b>	Roadway Elevations	
<b>Project Number:</b>	2021-West Wildwood-006	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
<b>Life Safety</b>	1	Project will protect emergency access
<b>Property Protection</b>	1	Project will protect roadway from flood damage
<b>Cost-Effectiveness</b>	1	
<b>Technical</b>	1	The project is technically feasible
<b>Political</b>	1	
<b>Legal</b>	1	The Borough 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>	1	Flood, Severe Weather, Climate Change and Sea Level Rise
<b>Timeline</b>	1	Within 2 years
<b>Agency Champion</b>	1	Engineer, Public Works
<b>Other Community Objectives</b>	1	
<b>Total</b>	13	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	Permanent Generator for Sanitary Pump Station		
<b>Project Number:</b>	2021-West Wildwood-007		
<b>Risk / Vulnerability</b>			
<b>Hazard(s) of Concern:</b>	Severe Weather, Severe Winter Weather, Hurricane, Nor'Easter		
<b>Description of the Problem:</b>	The sanitary pump station only has a portable backup generator. This requires deployment during power outages.		
<b>Action or Project Intended for Implementation</b>			
<b>Description of the Solution:</b>	The Borough will purchase and install a permanent generator for the sanitary pump 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>	N/A	<b>Estimated Benefits (losses avoided):</b>	Ensures continuity of operations of sanitary pump station
<b>Useful Life:</b>	20 years	<b>Goals Met:</b>	1, 3
<b>Estimated Cost:</b>	\$40,000	<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>	Within 5 years
<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>	Engineer, Public Works	<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>	Permanent Generator for Sanitary Pump Station	
<b>Project Number:</b>	2021-West Wildwood-007	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	Project will protect pump station from power loss.
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The Borough has the legal authority to complete the project.
Fiscal	0	Project requires funding support.
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	Severe Weather, Severe Winter Weather, Hurricane, Nor'Easter
Timeline	0	Within 5 years
Agency Champion	1	Engineer, Public Works
Other Community Objectives	1	
<b>Total</b>	11	
<b>Priority (High/Med/Low)</b>	High	