



## 9.16 BOROUGH OF WILDWOOD CREST

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

### 9.16.1 Hazard Mitigation Planning Team

The following individuals are the Borough of Wildwood Crest's identified HMP update primary and alternate points of contact and NFIP Floodplain Administrator.

*Table 9.16-1. Hazard Mitigation Planning Team*

Primary Point of Contact	Alternate Point of Contact
Name / Title: Ron Harwood, Office of Emergency Management Address: 6101 Pacific Avenue, Wildwood Crest, NJ 08212 Phone Number: (609) 729-8098 Email: rharwood@wildwoodcrest.org	Name / Title: Constance Mahon, Business Administrator Address: 6101 Pacific Avenue, Wildwood Crest, NJ 08212 Phone Number: (609) 729-8041 Email: cmahon@wildwoodcrest.org
NFIP Floodplain Administrator	
Name / Title: Patrick Malia, Floodplain Manager Address: 6101 Pacific Avenue Wildwood Crest, NJ 08260 Phone Number: (609) 729-8090 Email: Pmalia@wildwoodcrest.org	

### 9.16.2 Jurisdiction Profile

The Borough of Wildwood Crest is located on a barrier island along the Atlantic Ocean coastline of Cape May County, New Jersey. It is bounded on the north-northeast by the Township of Lower and City of Wildwood, on the east-southeast by the Atlantic Ocean, on the south-southwest by the Township of Lower and the Atlantic Ocean, and the west by the Township of Lower. It is part of the Ocean City Metropolitan Statistical Area.

The Borough of Wildwood Crest and its neighboring communities of the City of Wildwood, City of North Wildwood, and the Borough of West Wildwood 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 Wildwood Crest was 3,270. The estimated 2018 population was 3,131, a 4.3 percent decrease from the 2010 Census. Data from the 2018 U.S. Census American Community Survey indicate that 1.9 percent of the population is 5 years of age or younger and 36.2 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.

### 9.16.3 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



9.16-2 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development. Figure 9.16-1 at the end of this annex illustrates the geographically-delineated hazard areas and the location of potential new development.

**Table 9.16-2. Recent and Expected Future Development**

Type of Development	2015		2016		2017		2018		2019	
Number of Building Permits for New Construction Issued Since the Previous HMP										
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single and Two-Family Units	1	1	1	1	1	0	4	0	5	0
Multi-Family	0	0	0	0	0	0	0	0	2	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		
Recent Major Development and Infrastructure from 2015 to Present										
None identified										
Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years										
None anticipated										

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

### 9.16.4 Capability Assessment

The Borough of Wildwood Crest 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 9.16.4). The Borough of Wildwood Crest 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 Wildwood Crest and where hazard mitigation has been integrated.

**Table 9.16-3. 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 #.
Codes, Ordinances, & Requirements					
Building Code	Yes	State & Local	Yes	Yes	-
<b>Comment:</b> <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, Chapter 22, adopted by the Board of Commissioners as amended through 12-28-15. There is hereby established in the Borough of Wildwood Crest a State Uniform Construction Code enforcing agency to be known as the "Department of Inspections" consisting of a Construction Official, Building Subcode Official and Fire Subcode Official, Plumbing Subcode Official, Electrical Subcode Official, and such other subcode officials for such additional subcodes. The Construction Official shall be the chief administrator of the enforcing agency.</li><li>The Ordinance contains no specific mitigation actions other than those required in the Uniform Construction Code.</li></ul>					
Zoning Code	Yes	State & Local	Yes – if municipality has a Planning Board	Yes	-
<b>Comment:</b> <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, Chapter 85, adopted by the Board of Commissioners. 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 Wildwood Crest 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.</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, and in the furtherance of the purposes of the Municipal Land Use Law.</li><li>Article XV of this section includes detailed design standards for critical areas, flood zones, drainage and stormwater.</li></ul>					
Subdivisions	Yes	County & Local	Yes – if municipality has a Planning Board	Yes	-
<b>Comment:</b> <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, Chapter 85, adopted by the Board of Commissioners. 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 Wildwood Crest 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.</li></ul>					



	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 #.
<ul style="list-style-type: none"><li>Article XV of this section includes detailed design standards for the review and approval of Subdivisions relative to critical areas, flood zones, drainage and stormwater.</li></ul>					
Stormwater Management	Yes	State & Local	Yes	Yes	-
<b>Comment:</b> <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 66, , adopted by the Board of Commissioners as amended through 12-28-15. It is the purpose of this ordinance to establish minimum stormwater management requirements and controls for "major development,".</li><li>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. Source control plans should be developed based upon physical site conditions and the origin, nature, and the anticipated quantity or amount of potential pollutants. Multiple stormwater management BMPs may be necessary to achieve the established performance standards for water quality, quantity, and groundwater recharge.</li><li>To the maximum extent practicable, the standards in this Section shall be met by incorporating the nonstructural stormwater management strategies set forth into the design. The applicant shall identify the nonstructural measures incorporated into the design of the project.</li></ul>					
Post-Disaster Recovery	No	N/A	No	No	No
<b>Comment:</b>					
Real Estate Disclosure	Yes	State, Division of Consumer Affairs	Yes	Yes	-
<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. <ul style="list-style-type: none"><li>Section 36.3 of the Borough’s Flood Hazard Areas 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>					
Growth Management	Yes	Local	Yes – if municipality has a Planning Board	No	-
<b>Comment:</b> <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>					
Site Plan Review	Yes	County & Local	Yes – if municipality has a Planning Board	Yes	-
<b>Comment:</b> <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>Land Development Ordinance, Chapter 85, adopted by the Board of Commissioners. 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 Wildwood Crest 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.</li></ul>					



## Section 9.16 - Borough of Wildwood Crest

	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 #.
<ul style="list-style-type: none"><li>Article XV of this section includes detailed design standards for the review and approval of Site Plans relative to critical areas, flood zones, drainage and stormwater.</li></ul>					
Environmental Protection	No	-	No	-	-
Comment:					
Flood Damage Prevention	Yes	State & Local	Yes	Yes	-
<p>Comment:</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>Flood Hazard Areas, Chapter 36, adopted by the Board of Commissioners on 11-25-13 and amended through 12-28-15. The flood hazard areas of the Borough of Wildwood Crest are subject to periodic inundation which results in loss of life and property, health and safety hazards, disruption of commerce and governmental services, extraordinary public expenditures for flood protection and relief, and impairment of the tax base, all of which adversely affect the public health, safety, and general welfare. These flood losses are caused by the cumulative effect of obstructions in areas of special flood hazard which increase flood heights and velocities, and when inadequately anchored, causes damage in other areas. Uses that are inadequately floodproofed, elevated or otherwise protected from flood damage also contribute to the flood loss.</li><li>It is the purpose of this ordinance to promote the public health, safety, and general welfare, and to minimize public and private losses due to flood conditions in specific areas by:<ul style="list-style-type: none"><li>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;</li><li>Requiring that uses vulnerable to floods including facilities which serve such uses, be protected against flood damage at the time of initial construction;</li><li>Controlling the alteration of natural floodplains, stream channels, and natural protective barriers, which help accommodate or channel flood waters;</li><li>Controlling filling, grading, dredging, and other development which may increase flood damage; and,</li><li>Preventing or regulating the construction of flood barriers which will unnaturally divert flood waters or which may increase flood hazards in other areas.</li></ul></li><li>New construction and substantial improvement of any residential structure located in an A or AE Zone shall have the lowest floor, including basement together with the attendant utilities (including all electrical, heating, ventilating, air-conditioning and other service equipment) and sanitary facilities, elevated at or above the base flood elevation or as required by ASCE/SEI 24-14, Table 2-1, or the best available flood hazard data elevation, whichever is more restrictive, plus two (2) feet; all new construction and substantial improvement of any commercial, industrial or other nonresidential structure located in an A or AE Zone shall be elevated to or above the base flood elevation or as required by ASCE/SEI 24-14, Table 2-1 or the best available flood hazard data elevation, whichever is more restrictive, plus two (2) feet.</li></ul>					
Wellhead Protection	No	-	No	-	-
Comment:					
Emergency Management	No	-	No	-	-
Comment:					
Climate Change	No	-	No	-	-
Comment:					
Disaster Recovery Ordinance	No	-	No	-	-
Comment:					
Disaster Reconstruction Ordinance	No	-	No	-	-
Comment:					
Other	No	-	No	-	-
Comment: <ul style="list-style-type: none"><li></li></ul>					
Planning Documents					





	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>Comprehensive / Master Plan</b>	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 6 years. Further, all zoning ordinances must be consistent with the Master Plan or will not be benefitted from a presumption of validity.</li> </ul>					
<b>Capital Improvement Plan</b>	Yes	Local	No	Yes	-
<b>Comment:</b> <ul style="list-style-type: none"> <li>Capital Budget and Capital Improvement Program 2020, adopted by the Board of Commissioners on March 25, 2020. It is a 3-year Capital Plan with funding in the current year for projects such as, Emergency Sanitary and Storm Sewer Replacement, Fire Department Equipment, Purchase of Vehicles and Heavy Eq, Improvements to Roads,, Improv. to Public Build and Property; and Acquisition of Property.</li> </ul>					
<b>Disaster Debris Management Plan</b>	No	-	No	-	2021- Wildwood Crest-004
<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>Flood Mitigation and Storm Sewer Master Plan, dated March 2019. The Borough of Wildwood Crest has been historically subject to flooding, beach erosion and many other associated problems that require an aggressive approach to successfully manage infrastructure maintenance and flood damage mitigation. The Borough will continue to pursue and improve upon methods to educate its residents, protect its coastline, manage its infrastructure and natural areas, and mitigate the efforts from flood damage and natural disasters. This Flood Mitigation and Storm Sewer Master Plan (FMSSMP) demonstrates the Borough's continued commitment to these goals. This FMSSMP was developed for the purpose of: <ul style="list-style-type: none"> <li>Educating the Borough, public and private property owners of the existing flooding challenges facing the Borough;</li> <li>Establishing recommendations to mitigate the adverse impact of flooding and other coastal hazards that affect the Borough.</li> <li>Providing flood mitigation infrastructure options to guide the Borough when considering capital improvements;</li> <li>Complying with the Federal Emergency Management Agency (FEMA) Community Rating System (CRS) Program with the potential of enhancing that status.</li> <li>Participate and coordinate flood mitigation efforts with Federal, State, County and local entities.</li> </ul> </li> </ul>					
<b>Stormwater Pollution Prevention Plan</b>	Yes	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</li> </ul>					



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<p>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.</p> <ul style="list-style-type: none"><li>The Borough's Stormwater Pollution Prevention Plan is administered by Code Enforcement.</li></ul>					
Urban Water Management Plan	No	-	No	-	-
Comment:					
Habitat Conservation Plan	No	-	No	-	-
Comment:					
Economic Development Plan	No	-	No	-	-
Comment:					
Shoreline Management Plan	No	-	Yes – if located in a coastal zone	-	-
Comment: <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>					
Community Wildfire Protection Plan	No	-	No	-	-
Comment:					
Community Forest Management Plan	No	-	No	-	-
Comment:					
Transportation Plan	No	-	No	-	-
Comment:					
Agriculture Plan	No	-	No	-	-
Comment:					
Climate Action Plan	No	-	No	-	-
Comment:					
Tourism Plan	No	-	No	-	-
Comment:					
Business Development Plan	No	-	No	-	-
Comment:					
Other	Yes	County & Local	No	Yes	-
Comment: <ul style="list-style-type: none"><li>Sanitary Sewer Master Plan, dated June 2018. This Borough of Wildwood Crest's <u>Sanitary Sewer Master Plan</u> has been developed to provide a guidance document for both the short and long-term maintenance and improvement of the Borough's existing sanitary sewer system. Additionally, a <u>Roadway Inventory/Evaluation</u> element has been added to this document to provide a more comprehensive view of the Borough's infrastructure and to aid in the planning and prioritization of future capital maintenance and improvement projects.</li></ul>					



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				If yes- how? Describe in comments	If no - can it be a mitigation action? If yes, add Mitigation Action #.
<ul style="list-style-type: none"><li>The intent of this Sanitary Sewer Master Plan for the Borough of Wildwood Crest is to provide a document to prioritize future improvement projects, including the replacement of sanitary sewers and roadway reconstruction. Due to the ever-increasing costs of construction, the Borough must continue to make prudent decisions with regards to spending. The aim of this document is to aid in that endeavor.</li></ul>					
Response/Recovery Planning					
Comprehensive Emergency Management Plan (CEMP) / Emergency Operations Plan (EOP)	Yes	Local	Yes	Yes	-
<b>Comment:</b> <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 Borough's Plan is administered by OEM.</li></ul>					
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	No	-	-
<b>Comment:</b>					
Post-Disaster Recovery Plan	No	-	No	-	-
<b>Comment:</b>					
Continuity of Operations Plan	No	-	No	-	-
<b>Comment:</b>					
Public Health Plan	No	-	No	-	-
<b>Comment:</b>					
Other	No	-	No	-	-
<b>Comment:</b>					

Table 9.16-4. Development and Permitting Capability

Criterion	Response
Does your jurisdiction issue development permits? - If no, who does? If yes, which department?	Yes, Building Department
Does your jurisdiction have the ability to track permits by hazard area?	Yes
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. The Borough is 97% built out.

## ADMINISTRATIVE AND TECHNICAL CAPABILITY

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

Table 9.16-5. Administrative and Technical Capabilities

Staff/Personnel Resource	Available?	Department/Agency/Position
<b>Administrative Capability</b>		
Planning Board	Yes	Planning Board, Dept. of Public Safety
Mitigation Planning Committee	Yes	PPI committee through CRS
Environmental Board / Commission	Yes	Environmental Commission - Dept. of Public Safety





Staff/Personnel Resource	Available?	Department/Agency/Position
Open Space Board / Committee	No	-
Economic Development Commission / Committee	Yes	Urban Enterprise Zone
Warning Systems / Services (reverse 911, outdoor warning signals)	Yes	Department of Public Safety Nixle, Flood Warning Siren, Barriers, Flashing Flood Warning Signs
Maintenance program to reduce risk	Yes	Department of Public Works
Mutual aid agreements	Yes	Local and County
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	Yes	Planner and Engineer for particular boards
Engineers or professionals trained in building or infrastructure construction practices	Yes	City Engineer
Planners or engineers with an understanding of natural hazards	Yes	Planner and Engineer
Staff with training in benefit/cost analysis	Yes	Zoning Official
Staff with training in green infrastructure	No	-
Staff with education/knowledge/training in low impact development	No	-
Surveyor	No	-
Stormwater engineer	Yes	Engineer; DeBlasio & Associates- Professional Services Contract
Personnel skilled or trained in GIS applications	Yes	Engineer
Local or state water quality professional	No	City of Wildwood provides water to island
Scientist familiar with natural hazards in local area	No	-
Emergency manager	Yes	Emergency manager
Watershed planner	No	-
Environmental specialist	No	-
Grant writers	No	-
Resilience Officer	No	-
Other	No	-

## FISCAL CAPABILITY

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

**Table 9.16-6. Fiscal Capabilities**

Financial Resource	Accessible or Eligible to Use?
Community Development Block Grants (CDBG, CDBG-DR)	Yes – ADA only
Capital Improvements Project Funding	Yes
Authority to Levy Taxes for Specific Purposes	Yes
User Fees for Water, Sewer, Gas or Electric Service	Yes – Sewer Only
Incur Debt through General Obligation Bonds	Yes
Incur Debt through Special Tax Bonds	No
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	No

**EDUCATION AND OUTREACH CAPABILITY**

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

**Table 9.16-7. Education and Outreach Capabilities**

Criterion	Response
Do you have a public information officer or communications office?	Yes, PIO Brian Cunniff
Do you have personnel skilled or trained in website development?	Yes
Do you have hazard mitigation information available on your website? -If yes, briefly describe.	Yes, flood information and other emergency information is included on the website.
Do you use social media for hazard mitigation education and outreach? -If yes, briefly describe.	Yes; Facebook, Twitter, Youtube
Do you have any citizen boards or commissions that address issues related to hazard mitigation? -If yes, briefly describe.	Yes, Green Team
Do you have any other programs already in place that could be used to communicate hazard-related information? If yes, briefly describe.	Yes; Flood Mitigation & Storm Sewer Master Plan (March 2019) is posted on the Borough website

**COMMUNITY CLASSIFICATIONS**

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

**Table 9.16-8. Community Classifications**

Program	Participating?	Classification	Date Classified
Community Rating System	Yes	Class 6	May 1, 2014
Building Code Effectiveness Grading Schedule (BCEGS)	Yes	Class 3	May 2012
Public Protection (Fire ISO Protection Class)	Yes	Class 4	-
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 9.16-9. 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



Hazard	Adaptive Capacity (Capabilities) - Strong/Moderate/Weak
Hurricane	Moderate
Nor'Easter	Moderate
Severe Weather	Moderate
Severe Winter Weather	Strong
Tsunami	Moderate
Wildfire	Moderate

Notes:

Strong = Capacity exists and is in use; Medium = Capacity may exist, but is not used or could use some improvement;

Low = Capacity does not exist or could use substantial improvement; Unsure = Not enough information is known to assign a rating.

## NATIONAL FLOOD INSURANCE PROGRAM

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

**Table 9.16-10. National Flood Insurance Program Compliance**

Criterion	Response
What local department is responsible for floodplain management?	Construction/Zoning
Who is your floodplain administrator? (name, department/position)	Patrick J. Malia, Construction Official/Zoning Official
Are any certified floodplain managers on staff in your jurisdiction?	Sal DeSimone
What is the date that your flood damage prevention ordinance was last amended?	December 28, 2015
Does your floodplain management program meet or exceed minimum requirements? -If exceeds, in what ways?	Yes, Class 6 in CRS Program
When was the most recent Community Assistance Visit or Community Assistance Contact?	The most recent Community Assistance Visit ended in May 2014.
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, FIRMs are being remapped.
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?	No
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?	The Borough of Wildwood Crest is currently a Class 6 community in the Community Rating System (CRS) program.
How many flood insurance policies are in force in your jurisdiction?*	1,965 flood insurance policies
-What is the insurance in force? -What is the premium in force?	
How many total loss claims have been filed in your jurisdiction?*	299 Claims
-How many claims are still open or were closed without payment? -What were the total payments for losses?	\$31,243 in payments
Do you maintain a list of properties that have been damaged by flooding?	Yes
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

- **Land Use Planning:** The Planning and Zoning boards are updated on a regular basis with respect to flood damage prevention and mitigation efforts. The Zoning Board of Adjustments is the appeal board for all Flood related code issues.



- **Technical Resources:** Substantial Damage Estimates are performed by the Construction Official and Municipal Engineer.
- The Borough, by partnering with the NFIP Floodplain Administrator, continue to strive to maintain compliance with, and good-standing in the National Flood Insurance program, specifically through the following activities:
  - Maintain participation in CRS program. Continue involvement in NJAFM and attending seminars and conferences.
  - Continue to enforce Building Codes, Zoning Codes and elevation requirements to mitigate possibility of flood damage.
- Local departments continue to support County-wide initiatives identified in Section 9.1 of the County Annex.

### 9.16.5 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 Wildwood Crest'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 9.16-11 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 9.16-11. 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 Storm 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 Borough did not received 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 Borough was subject to masking and social distancing restrictions and business /school closures due to coronavirus.

Source: NOAA NCEI 2020, FEMA 2020

### 9.16.6 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 Wildwood Crest 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 Wildwood Crest.

- Number of repetitive loss (RL) properties: 203



- Number of severe repetitive loss (SRL) properties: 75
- Number of RL/SRL properties that have been mitigated: 51

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 9.16-12. 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
No Name	Communications Facility		X
No Name	Communications Facility		X
No Name	Communications Facility	X	X
No Name	Communications Facility	X	X
No Name	Communications Facility	X	X
WILDWOOD CREST FIRE COMPANY VOLUNTEER NO1	Fire Stations	X	X
Lake View Docks	Marinas	X	X
WILDWOOD CREST MEMORIAL	Education	X	X
Rosemary Ave Pump Station	Wastewater Treatment Facilities	X	X
"TOPEKA AVE PUMPING STATION	Wastewater Treatment Facilities	X	X
Wildwood Crest Police Department	Police Stations		X
CREST PIER COMM CTR SOUTH SIDE	Polling Places		X
WILDWOOD CREST AMBULANCE CORPS	EMS	X	X
Wildwood Crest	Municipal Facilities		X
OCEAN PLACE CONDOS	Communications Facility		X
REGAL PLAZE MOTEL	Communications Facility	X	X
WILDWOOD CREST AMBULANCE	Communications Facility	X	X
WILDWOOD CREST BEACH PATROL	Communications Facility		X
WILDWOOD CREST BOURGH HALL	Communications Facility		X
WILDWOOD CREST PUPPIC WORKS	Communications Facility	X	X
WILDWOOD CREST VOLUNTEER FIRE CO	Communications Facility	X	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:





- The majority of flooding occurs in the North West section of the Borough. This section of the Borough borders the bay and the principal damage occurs from Cresse Avenue south to Rambler Avenue. The tidal flooding frequently encompasses this area from the Park Boulevard corridor west to the street ends. In the event of a high water event, there are three areas of concern:
  - Tidal water may rise above the bay front outfall pipes which will cause a reverse flow of the storm drains.
  - Tidal water exceeding the capabilities of the street end barriers.
  - The outdated storm drains do not have the capability to evacuate the tidal water once the water levels have subsided.

### HAZARD AREA EXTENT AND LOCATION

Hazard area extent and location maps were generated for the Borough of Wildwood Crest 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 Wildwood Crest has significant exposure. A map of the Borough of Wildwood Crest 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 Wildwood Crest. The Borough of Wildwood Crest 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 9.16-13. Borough of Wildwood Crest Hazard Ranking Input**

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



### 9.16.7 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 9.16-14. Status of Previous HMP Mitigation Actions**

			Status (In Progress, No Progress, Ongoing Capability, or Completed)	Include in the 2021 HMP Update?	
2015 Action Number	Action Description	Responsible Party		Check if Yes	Enter 2021 HMP Action #
BWC-1	Where appropriate, support retrofitting (e.g. elevation), purchase, 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 (through NFIP Floodplain Administrator)	In Progress	X	2021-Wildwood Crest-005
BWC-2	Continue to strive to maintain compliance with, and good-standing in the National Flood Insurance program, specifically through the following activities: •Maintain participation in CRS program. Continue involvement in NJAFM and attending seminars and conferences. •Continue to enforce Building Codes, Zoning Codes and elevation requirements to mitigate possibility of flood damage.	Borough (through NFIP Floodplain Administrator)	Ongoing Capability		
BWC-3	Continue to support County-wide initiatives identified in Section 9.1 of the County Annex.	Local departments (as applicable for specific initiative)	Ongoing Capability		
BWC-4	Upgrade stormwater drainage system along CR-621 and arterials in the Wildwoods (Wildwood Crest, Wildwood and North Wildwood). These are inadequate to even a 2-year storm. Activity in the Wildwoods has been on Jersey Avenue, Wildwood Avenue.	County Engineering with municipalities	In Progress. Increased drainage pipe is currently being installed from Rambler Road to Jefferson Avenue along CR 621 in the Crest. The Borough is expended \$3.8M on this drainage improvement project. We expect project completion in the spring of 2021.	X	2021-Wildwood Crest-006



			Status (In Progress, No Progress, Ongoing Capability, or Completed)	Include in the 2021 HMP Update?	
2015 Action Number	Action Description	Responsible Party		Check if Yes	Enter 2021 HMP Action #
BWC-5	Stormwater drainage improvement of the Borough’s streets – Increase the size of stormwater outfalls to permit faster drainage and mitigate flooding.	Municipal Engineering and DPW	In Progress	X	2021- Wildwood Crest-001
BWC-6	Ocean Stormwater Outfall Mitigation: The Borough accretes sand, which has caused their outflow pipes to continually be buried/blocked. The entire downtown floods during heavy rains as a result. Ocean stormwater outfalls have been extended three times since 2001, and again need to be extended. This project has been submitted for grant funding, including FEMA mitigation grant funding, however no response on this application has been received by the Borough.	Borough with support from County	In Progress. The Borough has applied for a FEMA FY 2021 HMP grant for planning and design to mitigate flooding in the southern portion of town where this flooding is most prevalent. The US Army Corps project- Hereford Inlet to Cape May Inlet project has been planned and the Borough is awaiting word on when construction will commence. This project includes sand borrowing from the outfall areas to alleviate this issue. The project’s start is likely 2022.	X	2021- Wildwood Crest-007
BWC-7	Sunset Lake bank stabilization (bayside) – ongoing project. Tile walls damaged during Sandy. PA and 406 ongoing. ~8-9 blocks (project) not all damaged. The caps have been damaged.	Borough with support from County	Complete		
BWC-8	Dune construction along the beachfront – ongoing ACOE statewide dune project.	ACOE and NJDEP	Complete		
BWC-9	Replacement of bay-front street-end bulkheads. They replaced those that were damaged on the northern end of Borough – all cement now.	Borough with support from County	In Progress	X	2021- Wildwood Crest-003
BWC-10	Backup Power for Crest Memorial School. The Borough lacks a shelter. The Borough has received grant funding (~\$75k) for a backup generator, and they are currently sizing it so that they can operate necessary parts of the school as a shelter facility.	Borough and School Administration	No Progress	X	2021- Wildwood Crest-008

In addition to the above progress, the Borough of Wildwood Crest 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 Borough of Wildwood Crest 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 Wildwood Crest 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 9.16-15 summarizes the comprehensive-range of specific mitigation initiatives the Borough of Wildwood Crest 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 9.16-16 provides a summary of the prioritization of all proposed mitigation initiatives for this HMP update.



Table 9.16-15. 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-Wildwood Crest-001	Bayside Stormwater Pump Stations	<p><b>Problem:</b> Low lying areas along the bayfront experience flooding, restricting access to homes and businesses and lowering emergency response capabilities.</p> <p><b>Solution:</b> The Township will construct two stormwater pump stations to reroute bayside outfalls. The pump stations will be protected to the 500-year flood level and will have a backup power generator on site.</p>	New	Flood, Severe Storm	1	Borough Engineer, Borough Certified Floodplain Manager, Director of Public Works	HMGP, BRIC, Borough budget	Alleviate flooding in roadways, homes and allow for access to businesses	\$10 million	3 years	High	SIP	SP
2021-Wildwood Crest-002	Bayside Outfall Tide Closure Valves	<p><b>Problem:</b> Tidal water floods roadways by entering bayside outfalls. This restricts access to homes and businesses and lowering emergency response capabilities.</p> <p><b>Solution:</b> The Borough will install automated tide closure valves on bayside outfalls.</p>	Existing	Flood, Severe Storm	1	Borough Engineer, Borough Certified Floodplain Manager, Director of Public Works	HMGP, BRIC, Borough budget	Alleviate flooding in roadways, homes and allow for access to businesses	\$2.5 Million	2 years	High	SIP	SP
2021-Wildwood Crest-003	Bulkhead Replacement	<p><b>Problem:</b> Borough bulkheads are in need of replacement and require a higher elevation to protect from higher flood levels. Failure of bulkheads could lead to subsidence issues and could cause large scale coastal erosion</p> <p><b>Solution:</b> The Borough will replace or elevate existing Borough bulkheads in the right-of-way to elevation 8.00 in the NAVD88 datum.</p>	Existing	Flood, Coastal Erosion	1	Borough Engineer, Borough Certified Floodplain Manager, Director of Public Works	HMGP, BRIC, Borough budget	Alleviate flooding in roadways, homes and allow for access to	\$2 million	2 years	High	SIP	SP





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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
2021-Wildwood Crest-004	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.	N/A	All Hazards	4, 6	Administration	Borough budget	businesses Plan put in place	Staff time	Within 1 year	High	LPR	ES
2021-Wildwood Crest-005	Repetitive Loss Properties	<b>Problem:</b> Frequent flooding events have resulted in damages to residential properties. These properties have been repetitively flooded as documented by paid NFIP claims. The Borough has 203 repetitive loss properties and 75 severe repetitive loss properties but other properties may be impacted by flooding as well. <b>Solution:</b> Conduct outreach to 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 acquisition/purchase/moving/elevating residential homes in the flood prone areas that experience frequent flooding (high risk areas).	Existing	Flood, Severe Storm	1	NFIP Floodplain Administrator, supported by homeowners	FEMA HMGP and FMA, local cost share by residents	Eliminates flood damage to homes and residents, creates open space for the municipality increasing flood storage.	\$30 Million	3 years	High	SIP	PP
2021-Wildwood Crest-006	Drainage Pipe along CR 621	<b>Problem:</b> An upgraded stormwater drainage system is needed along CR-621 and arterials in the Wildwoods (Wildwood Crest, Wildwood and North Wildwood). These are inadequate to even a 2-year storm. <b>Solution:</b> An enlarged drainage pipe is currently being installed from Rambler Road to Jefferson Avenue along CR 621 in the Crest with expected project completion in the spring of 2021.	Existing	Flood, Severe Storm	1	Borough Engineer, County Engineering	HMGP, BRIC, Borough budget	Increase drainage and reduce flooding	\$3.8 Million	6 months	High	SIP	SP
2021-Wildwood Crest-007	Ocean Stormwater	<b>Problem:</b> The Borough accretes sand, which has caused their outflow pipes to continually be buried/blocked. The	Existing	Coastal Erosion, Severe	1	Borough Administration, USACE	USACE, HMGP, BRIC,	Increase drainage	High	Within 4	High	NSP, SIP	SP, NR



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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
	Outfall Mitigation	entire downtown floods during heavy rains as a result. Ocean stormwater outfalls have been extended three times since 2001, and again need to be extended.  <b>Solution:</b> The Borough has applied for a FEMA FY 2021 HMP grant for planning and design to mitigate flooding in the southern portion of town where this flooding is most prevalent. The US Army Corps project- Hereford Inlet to Cape May Inlet project has been planned and the Borough is awaiting word on when construction will commence. This project includes sand borrowing from the outfall areas to alleviate this issue. The project's start is likely 2022.		Storm, Flood			Borough budget	e and reduce floodin g		ye ars			
2021-Wildwood Crest-008	Backup Power for Crest Memorial School	<b>Problem:</b> The Borough lacks a shelter. They Borough has received grant funding (~\$75k) for a backup generator  <b>Solution:</b> The Engineer will research what size generator is needed to power the Crest Memorial School so that it can operate necessary parts of the school as a shelter facility. OEM and the school district will then coordinate to install and maintain the generator.	Existing	Severe Storm, Severe Winter Storm, Hurricane, Nor'Easter	1, 3	Engineer, OEM, School district	FEMA HMGP and BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Municipal Budget	Ensure s continuity of operations of School and use as a shelter	\$75,000	Withi n 2 ye ars	Hig h	SIP	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

### Potential FEMA HMA Funding Sources:

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

### Timeline:

The time required for completion of the project upon implementation

### Cost:

The estimated cost for implementation.

### Benefits:





N/A  
NFIP  
OEM

Not applicable  
National Flood Insurance Program  
Office of Emergency Management

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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 9.16-16. 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-Wildwood Crest-001	Bayside Stormwater Pump Stations	0	1	1	1	0	1	0	1	1	1	1	1	1	1	11	High
2021-Wildwood Crest-002	Bayside Outfall Tide Closure Valves	0	1	1	1	0	1	0	1	1	1	1	1	1	1	11	High
2021-Wildwood Crest-003	Bulkhead Replacement	0	1	0	1	1	1	0	1	1	1	1	1	1	1	11	High
2021-Wildwood Crest-004	Disaster Debris Management Plan	0	1	1	1	1	1	1	1	1	1	1	1	1	1	13	High
2021-Wildwood Crest-005	Repetitive Loss Properties	1	1	1	1	1	1	0	1	0	0	1	0	1	1	10	High
2021-Wildwood Crest-006	Drainage Pipe along CR 621	0	1	1	1	0	1	0	1	1	1	1	1	1	1	11	High
2021-Wildwood Crest-007	Ocean Stormwater Outfall Mitigation	0	1	1	1	0	0	0	1	1	1	1	1	1	1	10	High
2021-Wildwood Crest-008	Backup Power for Crest Memorial School	1	1	1	1	1	1	0	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).



**Table 9.16-17. 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
Coastal Erosion				X	X	X		X
Disease Outbreak					X			X
Drought					X			X
Flood		X		X	X	X		X
Hurricane					X			X
Nor'Easter					X			X
Severe Weather		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

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

The Borough of Wildwood Crest 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 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 9.16-18. Contributors to the Annex**

Name	Title	Method of Participation
Ron Harwood	Office of Emergency Management	Primary point of contact, provided information and data, contributed to the mitigation strategy
Constance Mahon	Business Administrator	Alternate point of contact
Patrick Malia	Floodplain Manager	NFIP floodplain administrator
Marc Deblasio, PE, PP, CME	Engineer	Provided information and data, contributed to the mitigation strategy





Figure 9.16-1. Borough of Wildwood Crest Hazard Area Extent and Location Map 1

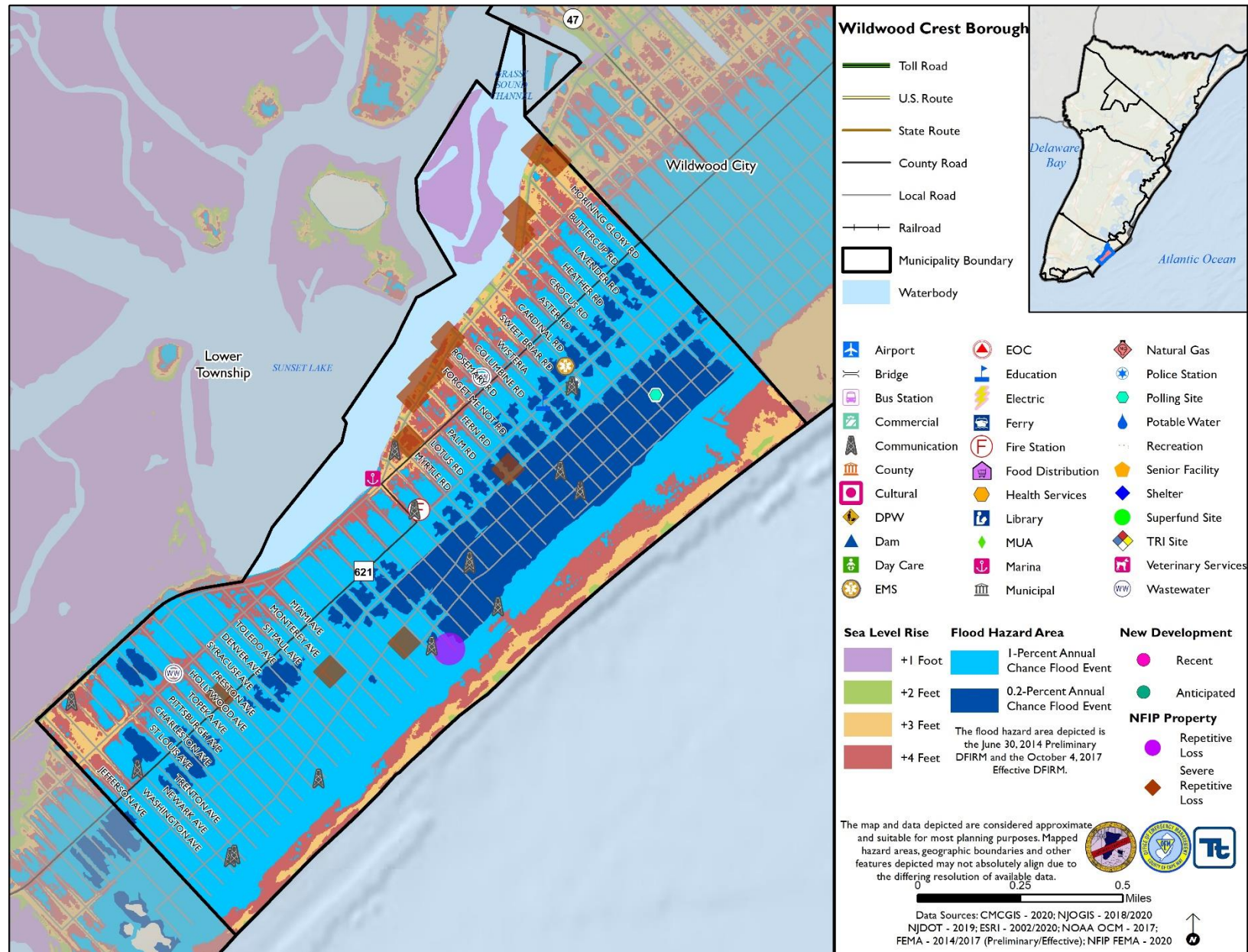






Figure 9.16-2. Borough of Wildwood Crest Hazard Area Extent and Location Map 2

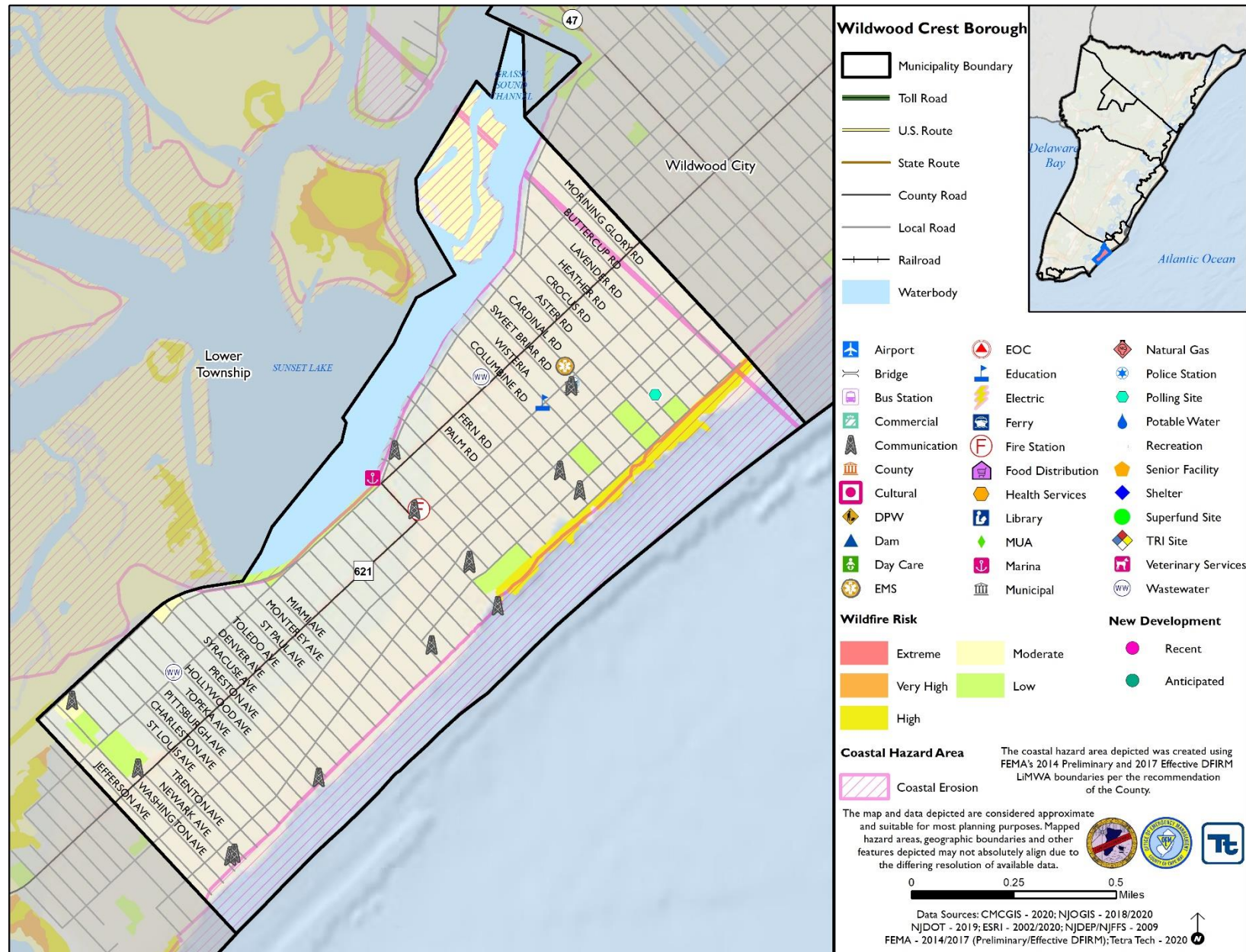
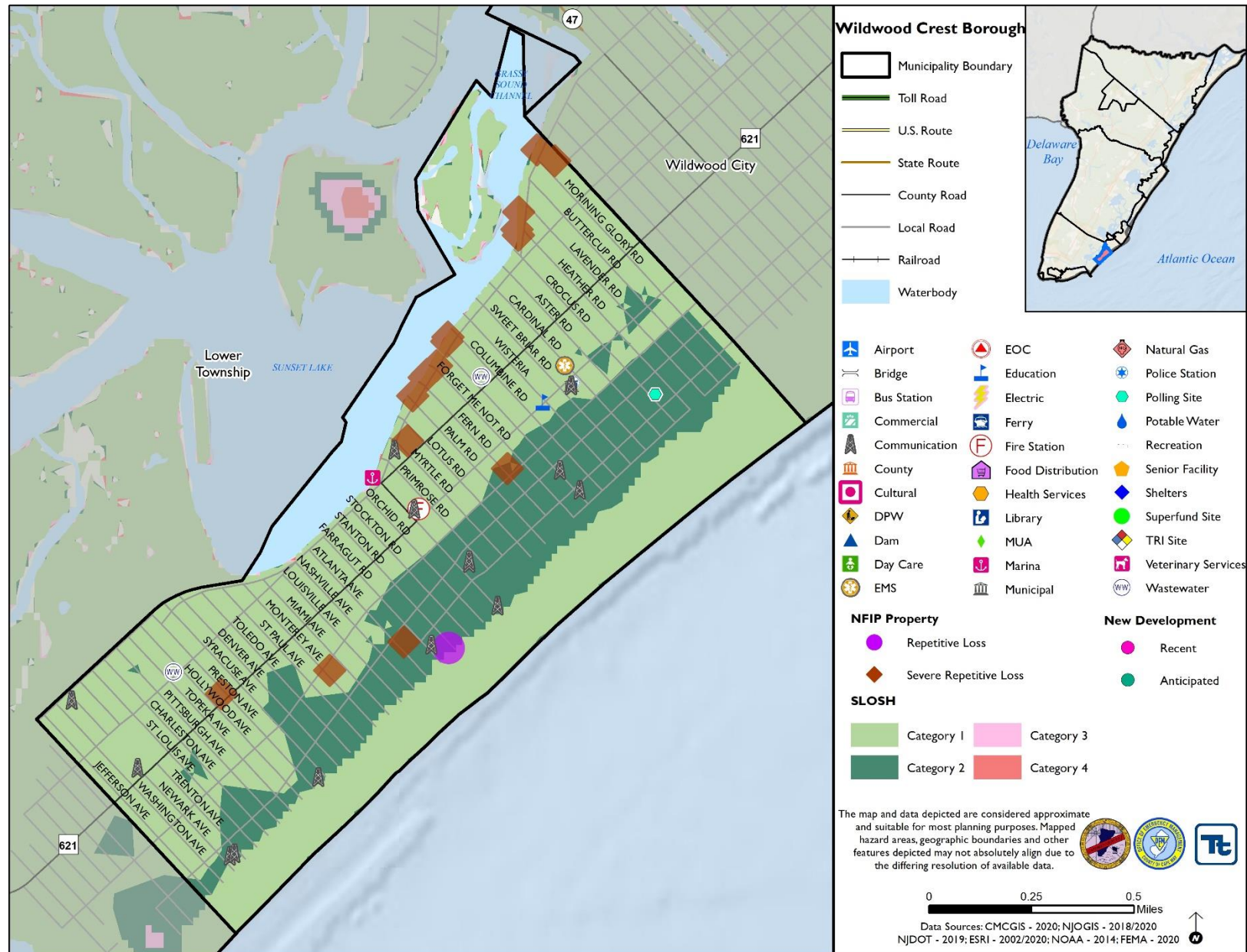




Figure 9.16-3. Borough of Wildwood Crest Hazard Area Extent and Location Map 3







Action Worksheet			
<b>Project Name:</b>	Bayside Stormwater Pump Stations		
<b>Project Number:</b>	2021-Wildwood Crest-001		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Severe Storm, Flood		
<b>Description of the Problem:</b>	Low lying areas along the bayfront experience flooding, restricting access to homes and businesses and lowering emergency response capabilities.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	The Township will construct two stormwater pump stations to re-reroute bayside outfalls. The pump stations will be protected to the 500-year flood level and will have a backup power generator on site.		
<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>	500 year	<b>Estimated Benefits (losses avoided):</b>	Alleviate flooding in roadways, homes and allow for access to businesses
<b>Useful Life:</b>	50-years	<b>Goals Met:</b>	1
<b>Estimated Cost:</b>	10 Million	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	3 years
<b>Estimated Time Required for Project Implementation:</b>	3 Years	<b>Potential Funding Sources:</b>	HMGP, BRIC, Borough budget
<b>Responsible Organization:</b>	Borough Engineer, Borough Certified Floodplain Manager, Director of Public Works	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Hazard mitigation, Stormwater management
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Remove outfalls and replace with larger outfalls	High	Coastal flooding backflow continues
	Installing Actuated tidal valves	High	Stormwater flooding continues
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>	Bayside Stormwater Pump Stations	
<b>Project Number:</b>	2021-Wildwood Crest-001	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	Project will protect properties in the area from flooding
Cost-Effectiveness	1	
Technical	1	The project is technically feasible
Political	0	
Legal	1	The Borough is legally able to complete the project
Fiscal	0	Project requires funding support
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	Severe Storm, Flood
Timeline	1	3 years
Agency Champion	1	Borough Engineer, Borough Certified Floodplain Manager, Director of Public Works
Other Community Objectives	1	
<b>Total</b>	11	
<b>Priority (High/Med/Low)</b>	High	





Action Worksheet			
<b>Project Name:</b>	Bayside Outfall Tide Closure Valves		
<b>Project Number:</b>	2021-Wildwood Crest-002		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Flood, Severe Storm		
<b>Description of the Problem:</b>	Tidal water floods roadways by entering bayside outfalls. This restricts access to homes and businesses and lowering emergency response capabilities.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	The Borough will install automated tide closure valves on bayside outfalls.		
<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>	100 year	<b>Estimated Benefits (losses avoided):</b>	Alleviate flooding in roadways, homes and allow for access to businesses
<b>Useful Life:</b>	25 years	<b>Goals Met:</b>	1
<b>Estimated Cost:</b>	\$2.5 Million	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	2 years
<b>Estimated Time Required for Project Implementation:</b>	1.5 Years	<b>Potential Funding Sources:</b>	HMGP, BRIC, Borough budget
<b>Responsible Organization:</b>	Borough Engineer, Borough Certified Floodplain Manager, Director of Public Works	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Hazard mitigation, Stormwater management
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Consolidate Outfalls	High	Flooding still likely
	Add Pump Station	\$5 million	High cost
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>	Bayside Outfall Tide Closure Valves	
<b>Project Number:</b>	2021-Wildwood Crest-002	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	Project will protect properties in the area from flooding
Cost-Effectiveness	1	
Technical	1	The project is technically feasible
Political	0	
Legal	1	The Borough is legally able to complete the project
Fiscal	0	Project requires funding support
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	Severe Storm, Flood
Timeline	1	2 years
Agency Champion	1	Borough Engineer, Borough Certified Floodplain Manager, Director of Public Works
Other Community Objectives	1	
<b>Total</b>	11	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	Bulkhead Replacement		
<b>Project Number:</b>	2021-Wildwood Crest-003		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Flood, Coastal Erosion		
<b>Description of the Problem:</b>	Borough bulkheads are in need of replacement and require a higher elevation to protect from higher flood levels. Failure of bulkheads could lead to subsidence issues and could cause large scale coastal erosion		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	The Borough will replace or elevate existing Borough bulkheads in the right-of-way to elevation 8.00 in the NAVD88 datum.		
<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>	100-year flood event	<b>Estimated Benefits (losses avoided):</b>	Bulkhead collapse prevented; flooding reduced
<b>Useful Life:</b>	50 year	<b>Goals Met:</b>	1
<b>Estimated Cost:</b>	\$2 Million	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	2 years
<b>Estimated Time Required for Project Implementation:</b>	3 Years	<b>Potential Funding Sources:</b>	HMGP, BRIC, Borough budget
<b>Responsible Organization:</b>	Borough Engineer, Borough Certified Floodplain Manager, Director of Public Works	<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
	Remove bulkhead	\$100,000	Increased erosion
	Install living shoreline	\$200,000	Not likely to be effective. Too energetic of an environment
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>	Bulkhead Replacement	
<b>Project Number:</b>	2021-Wildwood Crest-003	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	Protects properties from flooding, coastal erosion
Cost-Effectiveness	0	
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, Coastal Erosion
Timeline	1	2 years
Agency Champion	1	Borough Engineer, Borough Certified Floodplain Manager, Director of Public Works
Other Community Objectives	1	
<b>Total</b>	11	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	Repetitive Loss Properties		
<b>Project Number:</b>	2021-Wildwood Crest-005		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Flood, Severe Storm		
<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. The Borough has 203 repetitive loss properties and 75 severe repetitive loss properties but other properties may be impacted by flooding as well.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Conduct outreach to 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 acquisition/purchase/moving/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, 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>	\$30Million	<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 per home	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 per roadways	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 Properties	
<b>Project Number:</b>	2021-Wildwood Crest-005	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Families moved out of high-risk flood areas.
Property Protection	1	Properties removed from high-risk flood areas.
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	0	Project would remove families from the flood prone areas of the Borough.
Administrative	0	
Multi-Hazard	1	Flood, Severe Storm
Timeline	0	
Agency Champion	1	NFIP Floodplain Administrator, supported by homeowners
Other Community Objectives	1	
<b>Total</b>	10	
<b>Priority (High/Med/Low)</b>	High	





Action Worksheet			
<b>Project Name:</b>	Drainage Pipe along CR 621		
<b>Project Number:</b>	2021-Wildwood Crest-006		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Severe Storm, Flood		
<b>Description of the Problem:</b>	An upgraded stormwater drainage system is needed along CR-621 and arterials in the Wildwoods (Wildwood Crest, Wildwood and North Wildwood). These are inadequate to even a 2-year storm.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	An enlarged drainage pipe is currently being installed from Rambler Road to Jefferson Avenue along CR 621 in the Crest with expected project completion in the spring of 2021.		
<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>	TBD by final project design	<b>Estimated Benefits (losses avoided):</b>	Increase drainage and reduce flooding
<b>Useful Life:</b>	50-years	<b>Goals Met:</b>	1
<b>Estimated Cost:</b>	\$3.8 Million	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	6 months
<b>Estimated Time Required for Project Implementation:</b>	6 months	<b>Potential Funding Sources:</b>	HMGP, BRIC, Borough budget
<b>Responsible Organization:</b>	Borough Engineer, County Engineering	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Hazard mitigation, Stormwater management
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Elevate roadways	High	Costly and drainage concerns remain
	Install drainage basins	High	Would require buyout of properties
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>	Drainage Pipe along CR 621	
<b>Project Number:</b>	2021-Wildwood Crest-006	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	Project will protect properties in the area from flooding
Cost-Effectiveness	1	
Technical	1	The project is technically feasible
Political	0	
Legal	1	The Borough is legally able to complete the project
Fiscal	0	Project requires funding support
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	Severe Storm, Flood
Timeline	1	6 months
Agency Champion	1	Borough Engineer, County Engineering
Other Community Objectives	1	
<b>Total</b>	11	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	Ocean Stormwater Outfall Mitigation		
<b>Project Number:</b>	2021-Wildwood Crest-007		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Coastal Erosion, Severe Storm, Flood		
<b>Description of the Problem:</b>	The Borough accretes sand, which has caused their outflow pipes to continually be buried/blocked. The entire downtown floods during heavy rains as a result. Ocean stormwater outfalls have been extended three times since 2001, and again need to be extended.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	The Borough has applied for a FEMA FY 2021 HMP grant for planning and design to mitigate flooding in the southern portion of town where this flooding is most prevalent. The US Army Corps project- Hereford Inlet to Cape May Inlet project has been planned and the Borough is awaiting word on when construction will commence. This project includes sand borrowing from the outfall areas to alleviate this issue. The project's start is likely 2022.		
<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>	TBD by final project design	<b>Estimated Benefits (losses avoided):</b>	Increase drainage and reduce flooding
<b>Useful Life:</b>	50-years	<b>Goals Met:</b>	1
<b>Estimated Cost:</b>	High	<b>Mitigation Action Type:</b>	Natural Systems Protection, Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	3 years
<b>Estimated Time Required for Project Implementation:</b>	6 months	<b>Potential Funding Sources:</b>	USACE, HMGP, BRIC, Borough budget
<b>Responsible Organization:</b>	Borough Administration, USACE	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Hazard mitigation, Stormwater management
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Reroute outflow pipes to bayside	High	Very costly
	Install drainage basins	High	Would not be able to hold entire volume of stormwater, requires space which would warrant major buyouts
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>	Ocean Stormwater Outfall Mitigation	
<b>Project Number:</b>	2021-Wildwood Crest-007	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	Project will protect properties in the area from flooding
Cost-Effectiveness	1	
Technical	1	The project is technically feasible
Political	0	
Legal	0	The Borough requires legal permission to complete the project
Fiscal	0	Project requires funding support
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	Severe Storm, Flood
Timeline	1	Within 4 years
Agency Champion	1	USACE, Borough Engineer
Other Community Objectives	1	
<b>Total</b>	10	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	Backup Power for Crest Memorial School		
<b>Project Number:</b>	2021-Wildwood Crest-008		
<b>Risk / Vulnerability</b>			
<b>Hazard(s) of Concern:</b>	Severe Storm, Severe Winter Storm, Hurricane, Nor'Easter		
<b>Description of the Problem:</b>	The Borough lacks a shelter. They Borough has received grant funding (~\$75k) for a backup generator		
<b>Action or Project Intended for Implementation</b>			
<b>Description of the Solution:</b>	The Engineer will research what size generator is needed to power the Crest Memorial School so that it can operate necessary parts of the school as a shelter facility. OEM and the school district will then coordinate to install and maintain the generator.		
<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 School and use as a shelter
<b>Useful Life:</b>	20 years	<b>Goals Met:</b>	1, 3
<b>Estimated Cost:</b>	\$75,000	<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 2 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, OEM, School district	<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>	Backup Power for Crest Memorial School	
<b>Project Number:</b>	2021-Wildwood Crest-008	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will allow for Crest Memorial School to be used as a shelter
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 Storm, Severe Winter Storm, Hurricane, Nor'Easter
Timeline	1	Within 2 years
Agency Champion	1	Engineer, OEM, School district
Other Community Objectives	1	
Total	13	
Priority (High/Med/Low)	High	