



## 9.1 CAPE MAY COUNTY

This section presents the jurisdictional annex for Cape May County. The annex includes a general overview of Cape May County; an assessment of Cape May County’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.

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

Cape May County 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 9.1-1. Hazard Mitigation Planning Team and Contributors**

Primary Point of Contact		Alternate Point of Contact
Name / Title: Martin L. Pagliughi; Director, Cape May County Office of Emergency Management Address: 30 West Mechanic Street Cape May Court House, NJ 08210 Phone Number: (609) 463-6570 Email: <a href="mailto:mpagliughi@co.cape-may.nj.us">mpagliughi@co.cape-may.nj.us</a>		Name / Title: John Edwards, Deputy Director, Cape May County Office of Emergency Management Address: 30 West Mechanic Street Cape May Court House, NJ 08210 Phone Number: (609)-463-6570 Email: <a href="mailto:John.Edwards@co.cape-may.nj.us">John.Edwards@co.cape-may.nj.us</a>
Name	Title	Method of Participation
Martin L. Pagliughi	Director, Cape May County Office of Emergency Management	Primary point of contact, Mitigation Program Development Support, Reviewed and Signed Off on Annex
John Edwards	Deputy Director, Cape May County Office of Emergency Management	Alternate point of contact, Mitigation Program Development Support
Leslie Gimeno	Director, Cape May County Planning Department	Mitigation Program Development Support
Robert Church	County Engineer	Mitigation Program Development Support, Reviewed and Signed Off on Annex
Kevin Thomas	Public Health Coordinator	Mitigation Program Development Support
John Conturo	Solid Waste Program Manager	Capability Assessment Support
Josh Palombo	Wastewater Program Manager	Mitigation Program Development Support
Michael Donohue	County Administrator	Reviewed and Signed Off on Annex
Brittany Smith	County Fiscal/CFO	Reviewed and Signed Off on Annex

### 9.1.2 Jurisdiction Profile

Section 4 (County Profile), Volume I of this HMP includes details on Cape May County’s population, location, climate, history, and growth and development trends.



### 9.1.3 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. The jurisdictional annexes for each municipality summarize recent and expected future development trends, including major residential/commercial development and major infrastructure development. The Cape May County Planning Department is responsible for reviewing subdivisions of land and site plans, advising freeholders on planning matters, and providing information for individual citizens, industries, public service groups, and government officials.

### 9.1.4 Capability Assessment

An inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies was developed for the County. 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 County’s adaptive capacity for the impacts of climate change.
- Information on National Flood Insurance Program (NFIP) compliance.

Areas that mitigation is currently integrated are summarized in this Capability Assessment. Cape May County identified specific integration activities that will be incorporated into 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 Cape May County and where hazard mitigation has been integrated.

**Table 9.1-2. Planning, Legal and Regulatory Capability**

	Do you have this? (Yes/No)	Authority that enforces (Federal, State, Regional, County, Local)	Is this State Mandated?	Has the HMP been integrated in the last 5 years? If yes-how?	
				If yes- how? Describe in comments	If yes- how? Describe in comments
<b>Codes, Ordinances, &amp; Requirements</b>					
<b>Building Code</b>	No	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), County oversees disputes.</li> <li>• 5:23A-2.1 Hearing Applications. A person who is aggrieved by any ruling, action, order or notice, order or decision of a local enforcing agency that enforces either the state Uniform Construction Code or the Uniform Fire Code, including, without limitation, any refusal to act upon an application, may file an application for a hearing with the secretary of the County Construction Board of Appeals.</li> </ul>					
<b>Zoning Code</b>	No	Local	Yes – if municipality has a Planning Board	Yes	-



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				If yes-how? Describe in comments	If yes-how? Describe in comments
<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> </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. The governing body may by ordinance require approval of subdivision plats by resolution of the planning board as a condition for the filing of such plats with the county recording officer and approval of site plans by resolution of the planning board as a condition for the issuance of a permit for any development, except that subdivision or individual lot applications for detached one or two dwelling-unit buildings shall be exempt from such site plan review and approval; provided that the resolution of the board of adjustment shall substitute for that of the planning board whenever the board of adjustment has jurisdiction over a subdivision or site plan pursuant to subsection 63b. of this act . Dictated by the Municipal Land Use Law. NJ Statute 40:27-6.2 - the board of freeholders of any county having a county planning board shall provide for the review of all subdivisions of land within the county by said county planning board and for the approval of those subdivisions affecting county road or drainage facilities as set forth and limited hereinafter in this section.</li> <li>Subdivision and Site Plan Resolution of Cape May County, adopted by the Board of Chosen Freeholders as amended through 06-28-2011. The purpose of this Resolution shall be to provide regulations and standards to guide land development along County roads in the County of Cape May, New Jersey, in order to preserve the public health, safety, convenience and general welfare of the County. The approval provisions of this Resolution shall be administered by the Planning Board of the County of Cape May in accordance with N.J.S.A. 40:27-1, et seq.</li> <li>Subdivisions. All subdivision of land within Cape May County shall be submitted to the County Planning Board for review and/or approval, prior to approval by the appropriate local official or agency, except that conditional local approval may be granted, prior to review and/or approval by the County Planning Board, to subdivisions involving no new streets, not more than three lots, and which do not abut a County road. Such conditional local approval shall become final upon review and/or approval by the County Planning Board of each such subdivision</li> <li>6-3.13. Floodways. To prevent and eliminate conditions which, in the event of flood and storm, threaten public health, safety and welfare and which lead to damage to, or loss of, property, the County hereby:               <ul style="list-style-type: none"> <li>Prohibits the erection or location of buildings and structures in the floodway area, as delineated on the Cape May County Official Map, adopted by the Board of Chosen Freeholders by Resolution No. 4803-77, amended by Resolutions No. 9578-82, No. 615-88, and as may be further amended from time to time.</li> <li>Prohibits the filling within, or obstruction of, any floodway designated on the official County Map. The exact boundary of a floodway of active streams will be determined by the County Engineer. Exact boundaries of seasonal or ephemeral streams will be determined by mutual agreement between the County Engineer and the applicant, or his/her engineer. The controlling factor in determining the boundaries of seasonal or ephemeral streams shall be where the seasonal high water table is at the surface.</li> </ul> </li> <li>Chapter VII, Stormwater Management Design Criteria §7-1 General Criteria. 7-1.1. Purpose. The drainage design criteria herein are intended to prevent an increase in the stormwater run-off rate after construction of a development. All stormwater management facilities shall be designed in conformance with the applicable Stormwater Management Plan and the New Jersey Stormwater Best Management Practices Manual. [Res. 423-08]</li> </ul>					
Stormwater Management	No	-	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> </ul>					
Post-Disaster Recovery	No	-	No	-	-
<b>Comment:</b>					
Real Estate Disclosure	Yes	State, Division of Consumer Affairs	Yes	Yes	-
<b>Comment:</b>					
<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>					
Growth Management	Yes	State, County, Local	Yes – if municipality	Yes	-



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			has a Planning Board		
<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> <li>Though the State Plan is not a regulatory document, many state agencies have established memorandums of agreement with the Office of State Planning and are using the policies and guidelines of the Plan to guide their involvement, spending, and implementation of their programs. This process has a significant effect on environmental regulations and various State and Federal funding programs throughout Cape May County. Thus, the State Plan ultimately affects the land use and development of Cape May County.</li> <li>The County's Wastewater Management Plan limits density through the provision of sewer service.</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>Subdivision and Site Plan Resolution of Cape May County, adopted by the Board of Chosen Freeholders as amended through 06-28-2011. The purpose of this Resolution shall be to provide regulations and standards to guide land development along County roads in the County of Cape May, New Jersey, in order to preserve the public health, safety, convenience and general welfare of the County. The approval provisions of this Resolution shall be administered by the Planning Board of the County of Cape May in accordance with N.J.S.A. 40:27-1, et seq.</li> <li>Site Plans. Subdivision, 2-6.1. A copy of the plan shall be submitted to the County Engineer for an engineering evaluation of the site plan in accordance with the standards and criteria established in this Resolution. The County Planning Board shall not act on a site plan until the report from the County Engineer's Office is received, containing recommendations for County requirements, including the amount of performance guarantees, maintenance bonds, payments in lieu of County road improvements and proportionate share of future installation of drainage facilities.</li> <li>6-3.13. Floodways. To prevent and eliminate conditions which, in the event of flood and storm, threaten public health, safety and welfare and which lead to damage to, or loss of, property, the County hereby:               <ul style="list-style-type: none"> <li>Prohibits the erection or location of buildings and structures in the floodway area, as delineated on the Cape May County Official Map, adopted by the Board of Chosen Freeholders by Resolution No. 4803-77, amended by Resolutions No. 9578-82, No. 615-88, and as may be further amended from time to time.</li> <li>Prohibits the filling within, or obstruction of, any floodway designated on the official County Map. The exact boundary of a floodway of active streams will be determined by the County Engineer. Exact boundaries of seasonal or ephemeral streams will be determined by mutual agreement between the County Engineer and the applicant, or his/her engineer. The controlling factor in determining the boundaries of seasonal or ephemeral streams shall be where the seasonal high water table is at the surface.</li> </ul> </li> <li>Chapter VII, Stormwater Management Design Criteria §7-1 General Criteria. 7-1.1. Purpose. The drainage design criteria herein are intended to prevent an increase in the stormwater run-off rate after construction of a development. All stormwater management facilities shall be designed in conformance with the applicable Stormwater Management Plan and the New Jersey Stormwater Best Management Practices Manual. [Res. 423-08]</li> </ul>					
Environmental Protection	No	Federal & State	No	-	-
<b>Comment:</b> <ul style="list-style-type: none"> <li>It should be noted that large sections of the County are located within the Pinelands Area, Pinelands National Reserve and the CAFRA Zone so there are many environmental controls in place that provide for environmentally sensitive development.</li> </ul>					
Flood Damage Prevention	No	State & Local	Yes	-	-
<b>Comment:</b>					



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<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>Passage and enforcement of Flood Damage Regulations are primarily a municipal function.</li> </ul>					
<b>Wellhead Protection</b>	Yes	County	No	Yes	-
<b>Comment:</b>					
<ul style="list-style-type: none"> <li>The County instituted a Wellhead Protection Program for some small lots in Lower Township and Middle Township.</li> </ul>					
<b>Emergency Management</b>	No	-	No	-	-
<b>Comment:</b>					
<b>Climate Change</b>	No	-	No	-	-
<b>Comment:</b>					
<b>Disaster Recovery Ordinance</b>	No	-	No	-	-
<b>Comment:</b>					
<b>Disaster Reconstruction Ordinance</b>	No	-	No	-	-
<b>Comment:</b>					
<b>Other</b>	No	-	No	-	-
<b>Comment:</b>					
<ul style="list-style-type: none"> <li></li> </ul>					
<b>Planning Documents</b>					
<b>Comprehensive / Master Plan</b>	Yes	State & County	Yes	Yes	-038, -039, -040
<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> <li>Cape May County Comprehensive Plan, last amended 02-15-2005 by the Cape May County Planning Board. The Cape May County Planning Board's responsibility for developing and implementing a county-wide comprehensive plan is derived from the New Jersey County Planning Enabling Act of 1935 (C.40:27). This act empowers counties with the ability to establish Planning Boards and directs those boards to "...make and adopt a master plan for the physical development of the county." This document represents the fifth edition of a comprehensive plan for Cape May County.</li> <li><b>POLICY:</b> <ul style="list-style-type: none"> <li>Continue the expansion and enhancement of the County Park system to meet future needs. As envisioned by County Planners in 1962, the three recreation-open space area strategy (northern park, central park and southern park) has been realized and should be enlarged through the Open Space and Farmland Preservation Program and other means.</li> <li>Fresh water recharge areas and wellhead protection areas should be acquired to preserve future water supply and open space recreation needs. This criteria is a part of the County's Open Space and Farmland Preservation Program evaluation process and should be stressed as vital to the County's future</li> <li>Where appropriate, development shall maintain its original character, with wooded areas, water features, and vistas providing buffer strips between any natural feature considered a prime resource to be preserved. Site design, with open space, controlled density, and proper public facilities as an integral part of any development, should be required.</li> </ul> </li> </ul>					





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<ul style="list-style-type: none"> <li>The causeways linking the mainland to the island communities are of special concern. No new development should be allowed on these lands. Besides creating traffic hazards and interfering with speedy access to and evacuation from the island communities, this type of development encroaches on or directly promotes deterioration of the County's valuable wetlands.</li> <li>In Cape May County, the vast expanse of natural resources and sensitive areas, coupled with the reliance of the resort economy upon these resources, makes it imperative that the plan maximize its ability to protect and preserve wetlands, farmlands, beach and dune areas, aquifer recharge areas, and air and water resources.</li> </ul>					
<b>Capital Improvement Plan</b>	Yes	County	Yes	Yes	-038
<b>Comment:</b> <ul style="list-style-type: none"> <li>2020 Capital Budget and Capital Improvement Plan, adopted by the Board of Chosen Freeholders, 03-24-2020. The six-year tentative Capital Budget Plan reflects the continuation of an on-going Capital Program. The continuation of this program should result in additional modern facilities built and bonded under the most favorable conditions. While the 2020 Capital projects being funded have no clearly intended mitigation benefits the projects are; Upgrade Roads and Bridges, Construction and renovation of County Buildings, Improvements - County Park, Purchase Computers &amp; Electronic Equipment, Purchase Vans &amp; Trucks, Purchase Telephone &amp; Comm. Equipment, Purchase Equipment - Crest Haven, and Purchase of Equipment - Various Dept</li> </ul>					
<b>Disaster Debris Management Plan</b>	Yes	County - CMCMUA	Yes	Yes	-
<b>Comment:</b> <ul style="list-style-type: none"> <li>The CMCMUA has prepared a Temporary Debris Management Plan that is approved by NJDEP to manage potential debris overflow in the case of a disaster. The plan is updated every five years and was last approved in 2018.</li> </ul>					
<b>Floodplain or Watershed Plan</b>	No	-	No	-	-
<b>Comment:</b> <ul style="list-style-type: none"> <li>In 2001, Cape May County entered into a formal contract with the New Jersey Department of Environmental Protection to facilitate the Watershed Management Planning Program for the Cape May County watershed. This multi-year program, funded through the NJDEP, requires significant citizen involvement and is designed to create a plan for the preservation and maintenance of the 214,000 acre Cape May watershed. The planning implications of this program are addressed in a new section devoted to watershed management</li> <li>Continued monitoring of the County's water supply is encouraged to determine the extent of salt water intrusion and over-use of existing wells. There is an urgent need to maintain a "safe yield" relationship between aquifer recharge and aquifer withdrawals, particularly in the Cohansey aquifer. In order to avoid costly and/or energy intensive local or regional solutions, municipalities shall be encouraged to plan for development that does not exceed the limits of their available water supply.</li> <li>Aquifer recharge areas should be protected by purchase of critical areas for future well fields, regulation of buffer areas and enforcement of water quality protection programs. In addition to assisting in the implementation of the Wellhead Protection Program as noted above, the County Planning Board will, through its involvement with the County Open Space and Farmland Preservation Program and other land preservation programs, aid in the preservation of these resources by stressing the importance of assigning the highest priority to the acquisition of open space and/or farmlands located in recharge areas with the greatest potential for retention and reclamation of freshwater supplies.</li> <li>Future Water-Supply Scenarios, Cape May County, New Jersey, 2003-2050; Stewards of the water supply in New Jersey are interested in developing a plan to supply potable and non-potable water to residents and businesses of Cape May County until at least 2050. The ideal plan would meet projected demands and minimize adverse effects on currently used sources of potable, non-potable, and ecological water supplies. This report documents past and projected potable, non-potable, and ecological water-supply demands. Past and ongoing adverse effects to production and domestic wells caused by withdrawals include saltwater intrusion and water-level declines in the freshwater aquifers.</li> </ul>					
<b>Stormwater Management Plan</b>	No	County	Yes	Yes	-
<b>Comment:</b> <ul style="list-style-type: none"> <li>Per NJDEP Storm Water Management Rule (N.J.A.C. 7:8, et seq.). The Municipal Stormwater Regulation Program was developed in response to the U. S. Environmental Protection Agency's (USEPA) Phase II rules published in December 1999. The Department issued final stormwater rules on February 2, 2004 and four (4) NJPDES general permits authorizing stormwater discharges from Tier A and Tier B municipalities, as well as public complexes, and highway agencies that discharge stormwater from municipal separate storm sewers (MS4s).</li> <li>Stormwater Management planning is a component of subdivision and site plan review and approval included in Subdivision and Site Plan Resolution of Cape May County, adopted by the Board of Chosen Freeholders as amended through 06-28-2011.</li> <li>County Engineering, with municipal support, is helping municipalities in either the development or update of local stormwater master plans.</li> </ul>					
<b>Stormwater Pollution Prevention Plan</b>	Yes	State & County	Yes	Yes	-
<b>Comment:</b> <ul style="list-style-type: none"> <li>Comment: Per NJDEP Storm Water Management Rule (N.J.A.C. 7:8, et seq.). The Municipal Stormwater Regulation Program was developed in response to the U. S. Environmental Protection Agency's (USEPA) Phase II rules published in December 1999. The</li> </ul>					



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<p>Department issued final stormwater rules on February 2, 2004 and four (4) NJPDES general permits authorizing stormwater discharges from Tier A and Tier B municipalities, as well as public complexes, and highway agencies that discharge stormwater from municipal separate storm sewers (MS4s).</p> <ul style="list-style-type: none"> <li>Stormwater Pollution Prevention Plan Cape May County Crest Haven Complex and Highway Agency Stormwater Pollution Prevention Plan Cape May County Public Works 04-30-2020.</li> <li>The County passed resolution No. 546-06 to adopt and implement the stormwater management standards. The County Engineer has the authority to impose rules, regulation, policies and procedures in order to enforce stormwater issues. The County completed all the required SPPP Form reporting and has followed through with all of the annual stormwater maintenance, outreach, recordation and improvements.</li> </ul>					
<b>Urban Water Management Plan</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Habitat Conservation Plan</b>	Yes	County	No	No	-
<p><i>Comment:</i></p> <ul style="list-style-type: none"> <li>Cape May County Open Space and Recreation Plan, adopted by the Cape May County Planning Board in 2007. The Cape May County Open Space and Recreation Plan (OSRP) has been prepared by the Cape May County Planning Department for adoption by the Cape May County Planning Board to provide a countywide policy on open space and recreation issues. It serves as a strategic plan describing the County's open space and recreation needs and provides a basic action plan to address those needs.</li> <li>The Cape May County Park system is comprised of four distinct sites. County Park North, in Upper Township along the N.J. Route Nine corridor (25 acres), is officially known as the Richard K. Cameron Wildlife Sanctuary. The most active site, located in the center of the County in Cape May Court House, is known as Park Central (265 acres). This is the most visited site and contains many recreational facilities, as well as the popular County Zoo. Fishing Creek Park (1,508 acres), sometimes referred to as County Park South, is located in the Del Haven section of Middle Township near the Delaware Bay. The fourth and smallest site is the Avalon Manor Fishing Pier (0.2 acres), located in the Avalon Manor section of Middle Township. Together these sites provide approximately 1,800 acres of county owned recreational land.</li> <li>Cape May County is the recipient of a Smart Growth Strategic Planning Grant that is being used to designate suitable target areas that will ultimately assist our municipalities in the implementation of a transfer of development rights program and contribute to the preservation of additional open space within the County. This planning assistance initiative is funded by the New Jersey Office of Smart Growth and is an example of how the County continues to assist our municipalities in open space preservation efforts. Initiatives such as this are an active component of this action plan.</li> </ul>					
<b>Economic Development Plan</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Shoreline Management Plan</b>	No	-	Yes – if located in a coastal zone	-	-
<p><i>Comment:</i></p> <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	County	No	Yes	-
<p><i>Comment:</i></p> <ul style="list-style-type: none"> <li>Best Management Practices for Creating and Maintaining Wildfire Fuelbreaks in New Jersey's Wildland Urban Interface. Establishment of a fuelbreak can mean the difference between a structure surviving a wildfire or being damaged and destroyed. Given that a wildfire in the NJ Pinelands can destroy the average home in 10 minutes or less, the usefulness of a fuelbreak cannot be overemphasized as a technique for protecting life and property.</li> </ul>					
<b>Community Forest Management Plan</b>	No	-	No	-	-
<p><i>Comment:</i></p> <ul style="list-style-type: none"> <li>Much of the County is in the Pineland Area within which Forest Management is addressed.</li> </ul>					
<b>Transportation Plan</b>	Yes	County	No	Yes	-
<p><i>Comment:</i></p> <ul style="list-style-type: none"> <li>Cape May County Transportation Study, 2006, adopted by the Board of Chosen Freeholders on 09-19-2006. This plan is divided into three sections. The first section provides an overview of the County's geographic location, physical features, and transportation history. The second section provides an overview of the County's existing transportation system, including rail, air, and other transport. The third and final section discusses planning issues and areas of specific concern for transportation and includes a list of specific objectives and recommendations for the future of transportation in Cape May County.</li> </ul>					



**Table 9.1-2. Planning, Legal and Regulatory Capability**

	Do you have this? (Yes/No)	Authority that enforces (Federal, State, Regional, County, Local)	Is this State Mandated?	Has the HMP been integrated in the last 5 years? If yes-how?	
				If yes- how? Describe in comments	If yes- how? Describe in comments
<ul style="list-style-type: none"> <li>At the Federal level there has been a de-emphasis of new road construction and emphasis on the maintenance and upkeep of our existing highway system. As a result of the Federal guidance, this plan proposes over 61 million dollars of transportation activities in the three year period, but new roads are only a small portion of the total mileage involved.</li> <li>General Plan Objectives are to; address traffic safety, reduce congestion, enhance public transit, and address air quality.</li> <li><u>RTP 2050 Plan</u>. This is a regional Plan that emphasizes maintenance of the existing transportation system while addressing the future problems and needs of the region. There is more of an emphasis on operations and performance-based planning, supported by performance measures, and the establishment of performance targets. The RTP 2050 also includes a comprehensive review of current transportation resources in South Jersey. It includes highways, transit, bicycle, pedestrian, and intermodal facilities. For each travel mode, the demand for travel is reviewed, needs are assessed, and opportunities and strategies for improvement are discussed.</li> </ul>					
<b>Agriculture Plan</b>	Yes	County	No	Yes	-
<b>Comment:</b>					
<ul style="list-style-type: none"> <li>Cape May County Comprehensive Farmland Preservation Plan, adopted by the Cape May County Planning Board on 11-20-2007. The farming industry is an important piece of Cape May County's local economy. Agriculture accounted for more than \$11.25 million in sales during 2002. Six of sixteen municipalities in Cape May County have active farmland. A ranking by acreage is as follows: Dennis Township 3,983, Middle Township 3,319, Lower Township 1,187, Upper Township 2,335 Woodbine 408, and West Cape May 239. The majority of preserved and targeted farmland lies within the CAFRA area of the County. Fewer than ten percent lies within the Pinelands area.</li> <li>Regarding agriculture, the County Comprehensive Plan presents two main policies:               <ul style="list-style-type: none"> <li>In cooperation with the New Jersey Department of Agriculture and the Cape May County Board of Agriculture, the County Planning Board and staff will support programs that encourage the use of locally grown farm products and efforts to secure, develop, and retain farm produce markets.</li> <li>Through involvement with the County Open Space and Farmland Preservation Program and the State Farmland Preservation Program, the County Planning Board and staff will provide continued support for the County Agricultural Development Board and the State Agricultural Development Committee in their efforts to preserve and increase viable farmland within the County.</li> </ul> </li> <li>Wetlands Reserve program (WRP). The WRP is available to farmers and offers them payments for restoring and protecting wetlands on their property that had been previously drained for agricultural use. Wetlands help reduce flooding, filter pollutants from water, provide critical wildlife habitat, and protect open space. Payment by NRCS is based upon appraised agricultural land value. With appraised values from \$100 to \$2000 per acre, many farmers are not willing to create wetlands on otherwise productive agricultural lands.</li> </ul>					
<b>Climate Action Plan</b>	No	-	No	-	-
<b>Comment:</b>					
<b>Tourism Plan</b>	No	-	No	-	-
<b>Comment:</b>					
<ul style="list-style-type: none"> <li>Although there is not a dedicated Plan, tourism is a major component of the County's economy and is highly promoted by the County and most of its Municipalities.</li> </ul>					
<b>Business Development Plan</b>	No	-	No	-	-
<b>Comment:</b>					
<b>Other</b>	Yes	County	No	Yes	-
<b>Comment:</b>					
<ul style="list-style-type: none"> <li>Cape May County, Creative Place Making, Summer 2019. The Creative Placemaking Plan was initiated in summer 2018 with the goal of creating a brand identity and design guidelines for Open Space projects throughout the County. The plan also included conceptual design of several sites in the County as well as goals and objectives for implementation. This document includes a detailed summary of the process, work product, design guidelines, and other elements created through the planning process. The Planning process included four Phases; Discovery, Ideation, Design Development, and Documentation.</li> <li>Cape May County's sense of place is distinct and diverse. The geographic and ecological conditions inherent to the peninsula create beautiful natural habitats for numerous wildlife species. These conditions also are a strong driver of ecotourism and provide a wide array of recreational experiences for residents and visitors.</li> <li>The Plan identifies four Goals:               <ul style="list-style-type: none"> <li>Farmland Preservation Programs Create A Clear, Concise, And Compelling Identity For The Open Spaces,</li> <li>Identify And Increase Quality Of Life For Residents And Visitors Establish A Catalog Of Site Elements Which Express The Program,</li> <li>Preservation Into Resident And Visitor Experiences Strengthen And Integrate Public Art, Cultural Events, And Historic, Implementation, And Funding Establish A Clear Process For Project Coordination, Communication.</li> </ul> </li> </ul>					





Table 9.1-2. Planning, Legal and Regulatory Capability

	Do you have this? (Yes/No)	Authority that enforces (Federal, State, Regional, County, Local)	Is this State Mandated?	Has the HMP been integrated in the last 5 years? If yes-how?	
				If yes- how? Describe in comments	If yes- how? Describe in comments
<b>Response/Recovery Planning</b>					
<b>Comprehensive Emergency Management Plan (CEMP) / Emergency Operations Plan (EOP)</b>	Yes	OEM	Yes	Yes	2021_CapeMay County_003
<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 County completed an EMP in 2015.</li> <li>The County Office of Emergency Management has partnered with the New Jersey Office of Emergency Management to continue to develop, enhance, and implement existing emergency plans.</li> </ul>					
<b>Threat &amp; Hazard Identification &amp; Risk Assessment (THIRA)</b>	Yes	OEM	Yes	Yes	-
<b>Comment:</b> There is an OFSPH working group with functions split between law enforcement/OEM/Haznat/firefighting.					
<b>Post-Disaster Recovery Plan</b>	Yes	County	No	Yes	-
<b>Comment:</b> <ul style="list-style-type: none"> <li>Strategic Recovery Planning Report, Draft, 11-03-2015. The purpose of the SRPR is to evaluate the impacts of the disaster on relevant community features. The evaluation can be broad or narrow but should focus on planning goals, strategies, and priorities leading to actions that are most urgently needed for public safety and economic recovery. The SRPR should serve as a guide for actions to not only recover from the effects of Superstorm Sandy but also to reduce vulnerabilities to future disasters. This document serves as the SRPR for the County of Cape May, NJ.</li> <li>The Plan included a vulnerability assessment which determined that Cape May County has 229 critical facilities that were analyzed. Three of the critical facilities are located in an area vulnerable to wildfires. None of the Cape May County critical facilities are within ten miles of a nuclear power plant. There are 75 facilities in the Special Flood Hazard Area, where there is a 1% annual chance of flooding and 87 critical facilities are vulnerable to impacts from two feet of sea level rise. Some facilities may be at risk for more than one incident.</li> <li>The NJHMP includes an analysis of potential losses based on the preliminary work map flood hazard areas. For Cape May County, the NJHMP estimates that 39,283 people reside in the Special Flood Hazard Area (SFHA), representing 40.4 percent of the total County population. The estimated general building stock exposure within the SFHA is estimated at \$15.215 billion, representing 61.7 percent of the County. According to the Coastal Vulnerability Index, the majority of the coastline in Cape May County is ranked as High (35%) or Very High Risk (33%). The only Low Risk areas identified are in the back-bay areas of the Wildwoods, including Richardson Sound and Taylor Sound, and a small stretch of coast along the Delaware Bay in Middle Township. Areas ranked as Moderate Risk include the Cape May Harbor, the Wildwoods oceanfront, Strathmere, and portions of Ocean City</li> </ul>					
<b>Continuity of Operations Plan</b>	Yes	County Administrator	No	Yes	-
<b>Comment:</b> <ul style="list-style-type: none"> <li>Cape May Office of Emergency Management maintains a Continuity of Operations Plan (COOP).</li> </ul>					
<b>Public Health Plan</b>	Yes	County	No	Yes	2021_CapeMay County_002
<b>Comment:</b> <ul style="list-style-type: none"> <li>Community Health Needs Assessment, 2017 – 2019. <b>Health Care Reform 3590 Patient Protection and Affordable Care Act</b> requires 501c3 nonprofit hospitals to conduct a Community Health Needs Assessment every three years, which should include: A strategic plan to be adopted and implemented; Collaboration with community health agencies; and Assessment, planning and implementation between January, 2017 and ending December, 2019.</li> <li>Four Priority Community Health Needs: After analyzing results gathered from the focus group meetings and one-on-one interviews conducted from March 2017 to November 2017 with community leaders, health professionals and community residents throughout Cape May County, the following top four health needs were identified; Cancer, Cardiovascular Disease, Diabetes/Obesity, and Mental Health/Substance Use Disorder.</li> <li>Community Health Improvement Plan, 2007: The Cape May County Community Health Improvement Plan (CHIP) is a strategic plan developed by a collaborative team of individuals and agencies from throughout Cape May County, New Jersey. The collaborative process outlined a comprehensive approach to assessing the health and well-being of county residents. Specifically, the framework promotes four separate assessments. 1. Forces of Change Assessment 2. Local Public Health System Assessment 3. Community Health Status Assessment 4. Community Themes &amp; Strengths Assessment</li> </ul>					
<b>Other</b>	Yes	County	No	Yes	-
<b>Comment:</b>					



**Table 9.1-2. Planning, Legal and Regulatory Capability**

	Do you have this? (Yes/No)	Authority that enforces (Federal, State, Regional, County, Local)	Is this State Mandated?	Has the HMP been integrated in the last 5 years? If yes-how?	
				If yes- how? Describe in comments	If yes- how? Describe in comments
<ul style="list-style-type: none"> <li> <p><i>Cape May County Energy Master Plan, prepared for the County Board of Chosen Freeholders with no date. Because of its sensitivity to the environment, and unique geographic location, the County has placed a high priority on environmental stewardship, renewable energy and energy efficiency as a means to protect its natural resources and provide an example of "green action" for the residents and businesses of CMC. The Plan has identified that the County has a responsibility to enforce strong commitment to reducing global warming because of its extensive shoreline, and huge economic impact from rising ocean levels. Reducing the carbon footprint of the County will be a necessity; that the County needs to lead New Jersey by example. It must demonstrate an aggressive approach to implementing all forms of energy efficiency projects and promotion of clean energy technologies; and that the County could greatly benefit from the promotion of clean energy service and manufacturing business that would create tax base and jobs, in a new and rapidly growing market sector that would suit Cape May County's location and demographic well.</i></p> <ul style="list-style-type: none"> <li> <p><i>The study indicates that Cape May County is singularly blessed by natural wind energy resources far in excess of all other counties within the State. The wind resource is substantive onshore as well as offshore and the county possesses adequate agricultural lands to provide dual economies to its farmers who choose to partner with wind developers to exploit their natural resources.</i></p> </li> </ul> </li> <li> <p><i>Cape May County Hurricane Evacuation and Elevation Study Extension (2007) worked to expand on the work completed under the previous study, "Analysis and Modeling of Cape May County Roadway Elevations and Evacuation Routes", 2006. This earlier study was sponsored by the New Jersey Department of Transportation and the New Jersey State Police Office of Emergency Management. The Study included evacuation simulation modeling and roadway elevation surveying.</i></p> </li> </ul>					

**Table 9.1-3. Development and Permitting Capability**

Criterion	Response
Does your jurisdiction issue development permits? - If no, who does? If yes, which department?	No – this done at the municipal level
Does your jurisdiction have the ability to track permits by hazard area?	No- the County does not issue development permits; this is done at the municipal level
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-municipalities conduct their own analyses

**ADMINISTRATIVE AND TECHNICAL CAPABILITY**

The table below summarizes potential staff and personnel resources available to Cape May County.

**Table 9.1-4. Administrative and Technical Capabilities**

Staff/Personnel Resource	Available?	Department/Agency/Position
<b>Administrative Capability</b>		
Planning Board	Yes	Associated with Department of Planning
Mitigation Planning Committee	Yes	OEM – Mitigation Plan Lead
Environmental Board / Commission	No	-
Open Space Board / Committee	Yes	Department of Planning - Open Space and Farmland Preservation; Open Space Review Board
Economic Development Commission / Committee	No	-
Warning Systems / Services (mass notification system, outdoor warning signals)	Yes	Code Red- OEM
Maintenance program to reduce risk	Yes	Department of Public Works/Office of the County Engineer- maintenance of roads and drainage; mitigation project planning and monitoring





Table 9.1-4. Administrative and Technical Capabilities

Staff/Personnel Resource	Available?	Department/Agency/Position
Mutual aid agreements	Yes	Fire/EMS. Cape May Engineering and Office of Emergency Management are creating, enhancing, and maintaining mutual aid agreements.
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	Yes	Department of Public Works/Office of the County Engineer
Engineers or professionals trained in building or infrastructure construction practices	Yes	Department of Public Works/Office of the County Engineer; Department of Planning
Planners or engineers with an understanding of natural hazards	Yes	Department of Public Works/Office of the County Engineer
Staff with training in benefit/cost analysis	Yes	Department of Public Works/Office of the County Engineer
Staff with training in green infrastructure	No	-
Staff with education/knowledge/training in low impact development	No	-
Surveyor	Yes	In house and contracting
Stormwater engineer	Yes	In house and contracting
Personnel skilled or trained in GIS applications	Yes	Department of Planning
Local or state water quality professional	Yes	In house and contracting
Scientist familiar with natural hazards in local area	No	-
Emergency manager	Yes	Emergency Management Coordinator at OEM
Watershed planner	No	-
Environmental specialist	No	-
Grant writers	Yes	Various County Departments, including contracted
Resilience Officer	No	-
Other	No	-

**FISCAL CAPABILITY**

The table below summarizes financial resources available to Cape May County.

Table 9.1-5. Fiscal Capabilities

Financial Resource	Accessible or Eligible to Use?
Community Development Block Grants (CDBG, CDBG-DR)	Yes
Capital Improvements Project Funding	Yes
Authority to Levy Taxes for Specific Purposes	Yes
User Fees for Water, Sewer, Gas or Electric Service	No
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	Yes
State-Sponsored Grant Programs	Yes
Development Impact Fees for Homebuyers or Developers	No
Clean Water Act 319 Grants (Nonpoint Source Pollution)	Yes
Other	No

**EDUCATION AND OUTREACH CAPABILITY**

The table below summarizes the education and outreach resources available to Cape May County.





**Table 9.1-6. Education and Outreach Capabilities**

Criterion	Response
Do you have a public information officer or communications office?	Yes- One of ESFs (ESF-15), County PIO Diane Wieland
Do you have personnel skilled or trained in website development?	Yes- Diane Wieland
Do you have hazard mitigation information available on your website? -If yes, briefly describe.	Yes- the County has a link to both the current (2021) draft and the 2016 plan
Do you use social media for hazard mitigation education and outreach? -If yes, briefly describe.	Yes- County Facebook, Twitter- synchronized with website
Do you have any citizen boards or commissions that address issues related to hazard mitigation? -If yes, briefly describe.	Yes—LEPC is considered (County Working Group); Fire, EMS, Police, Communications – administer grant funding; meets monthly
Do you have any other programs already in place that could be used to communicate hazard-related information? If yes, briefly describe.	No- but almost all municipalities have mass notification systems in place. Only use County (Code Red) for county-wide emergencies. County sends communities info and it is up to them to put it out. <i>The Cape May County Herald</i> and radio stations publish data from releases.

**COMMUNITY CLASSIFICATIONS**

The table below summarizes the classifications for community programs available to Cape May County.

**Table 9.1-7. Community Classifications**

Program	Participating?	Classification	Date Classified
Community Rating System	N/A	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	N/A	-	-
Public Protection (Fire ISO Protection Class)	N/A	-	-
Storm Ready Certification	Yes	N/A	In progress
Firewise Community Classification	N/A	-	-
Sustainable Jersey	N/A	-	-

**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 9.1-8. Adaptive Capacity**

Hazard	Adaptive Capacity (Capabilities) - Strong/Moderate/Weak
Climate Change and SLR	Moderate
Coastal Erosion	Moderate
Disease Outbreak	Moderate
Drought	Moderate
Flood	Moderate
Hurricane	Moderate
Nor'Easter	Moderate





Table 9.1-8. Adaptive Capacity

Hazard	Adaptive Capacity (Capabilities) - Strong/Moderate/Weak
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 County Planning Department reported that it did not have internal resources to determine the localized impacts of climate change and relies on the NJ Department of Environmental Protection for technical assistance. The County is supportive of integrating climate change in policies or actions and wants to enhance resilience. The County has developed an online floodwater modeling tool through County initiatives. The County is adjusting plans for infrastructure to increase road elevations and will continue to consider new opportunities to integrate climate change and sea level rise.

**NATIONAL FLOOD INSURANCE PROGRAM**

Management and regulation of the regulatory floodplains are done at the local level. Refer to the individual annexes for more information.

**ADDITIONAL AREAS OF EXISTING INTEGRATION**

The following describes the areas of integration in Cape May County.

- County Engineering:** Cape May County partnered with the City of Wildwood to raise roadways and elevate the pump station. This reflects the County’s philosophy to reinvest rather than treat and enhance resiliency. The County Engineer is working with local project leads to identify order of magnitude costs for the large number of county-sponsored infrastructure mitigation projects. Cape May County Engineering, with municipalities, is obtaining backup power to ensure continuity of operations for stormwater, wastewater, public potable water, pumping stations, etc. Cape May County Engineering, working with facility owners/ operators, is installing generators on buildings and facilities that operate as temporary shelters. The Department is also installing valves on the ends of outfall pipes to prevent tides from backing up through the stormwater drainage systems. They will also replace valves on outfall pipes that no longer function as intended.

**Cape May County Engineering**, working with NJDOT and municipalities as necessary, is replacing corrugated metal stormwater pipes throughout the County.
- County Planning:** All county-funded open space projects have components of resilience. In Upper Township, a new park at Beesley’s Point elevated a parking lot and created a berm for a new kayak launch/facility. The County Planning Department is also working with Woodbine on a \$1.7 million eco-park. The Cape May County Planning Department is reviewing zoning and land use regulations against the vulnerability issues outlined in the Strategic Recovery Planning Report. They are also developing amendments to anticipate necessary changes to height, bulk and setback requirements needed to improve resiliency based on the underway Comprehensive Plan update. The Department is also reviewing existing permitting procedures to determine improvements for fast-tracking/streamlining for expediting projects directly related to recovery or mitigation and that are consistent with adopted Design Standards.
- Emergency Management:** Cape May County Emergency Management are working to promote municipal participation in incentive-based programs, such as NFIP CRS program, NFPA Firewise Program, and NWS StormReady and Tsunami Ready. Cape May Office of Emergency Management is ensuring adequate communication systems and emergency alert systems are available and reliable. The







County Fire Coordinator is working with those communities with significant wildfire risk to identify and implement wildfire mitigation activities, programs and initiatives, including community participation in the NFPA “Firewise” program.

- The **Cape May County Planning Department**, working with **Engineering/ Department of Public Works and Office of Emergency Management**, are updating the County Master Plan with a Community Resiliency Element that reviews the Land Use Plan Element and development standards against the vulnerability issues outlined in the SRPR and adopt as a Master Plan Element.
- **Cape May County Engineering and Emergency Management** are working with municipal mitigation planning point of contacts to continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7 (Plan Maintenance). The County continues efforts to facilitate the annual plan review and reporting process through improved procedures and tools (e.g. online survey and reporting tools). The Departments are also working with facility owners and municipal support to assess wireless tower owners’ vulnerability to wind damage.
- The **Cape May County Planning Department and Office of Emergency Management**, working with NOAA and Rutgers, is assessing the long-term impacts of future sea level rise to be projected and studied for Cape May County.
- The **New Jersey Department of Transportation** has partnered with Cape May County Office of Emergency Management and the State Police to update evacuation plans.
- The US Army Corps of Engineers is supporting USACE beach & dune replenishment efforts.

### 9.1.5 Hazard Event History Specific to the Jurisdiction

Cape May County has a history of hazard events, as detailed in Volume I, Section 5 (Risk Assessment) of this plan.

### 9.1.6 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. The following summarizes the hazards of greatest concern and risk to the County. For additional vulnerability information relevant to this jurisdiction, refer to Section 5 (Risk Assessment).

#### REPETITIVE FLOOD LOSSES

The following summarizes the repetitive and severe repetitive flood losses in the County. These properties are not owned by the County; therefore, the County has no jurisdiction to mitigate however supports local mitigation projects to address repetitive flooding. Refer to Section 5.4.5 (Flood) for more detailed information on NFIP statistics by municipality, and the municipal annexes in Sections 9.2 through 9.17 for details on the number of mitigated properties in each municipality.

- Number of repetitive loss (RL) properties: 2,233
- Number of severe repetitive loss (SRL) properties: 519

#### CRITICAL FACILITIES

Critical Facilities and lifelines are identified in Section 4 (County Profile).

#### IDENTIFIED ISSUES

The jurisdiction has identified the following vulnerabilities that need to be addressed at the County level:

- Cape May County has notable groundwater intrusion issues due to water withdrawals and the sensitivity of the underlying aquifer.



- Cape May County's Health Department has faced significant challenges owing to COVID-19. Beginning in Fall 2021, the County's case rate climbed significantly upwards and is placing strain on the County's healthcare system. The County has identified a need to support mobilization as vaccines arrive.
- Cape May County law enforcement agencies recently upgraded to P-25 compliant radios. However, County EMS and fire departments have seen patchwork acquisition of P-25 radios due to the high cost of new radios.
- Ocean Drive (CR-619) crossing Townsend's Inlet and connecting Sea Isle City and Avalon is vulnerable to coastal erosion. The road is vulnerable to overtopping and waves crash over the existing seawall.
- The existing timber groin on Beach Ave (CR-604) in Cape May is deteriorated and needs to be replaced from Wilmington Avenue south.
- Beach Ave (CR-604) discharges stormwater runoff through outfalls to the Ocean. These outfalls fill with sand due to littoral drift, causing clogs and water backup that causes flooding and requires frequent maintenance.
- CR-621 is a designated County evacuation route for the Wildwoods, including Diamond Beach in Lower Township. The Route traverses a low-lying stretch of marsh that is vulnerable to tidal and nuisance flooding. Additionally, the Route is served by several bridges that are beyond their useful lives.
- Sunset Boulevard (CR-606) is a county road connecting Cape May Point and Cape May Point State Park to West Cape May, Cape May, and evacuation routes to the north. The road is low-lying and has portions that can flood with water levels as little as one foot above high tide.
- Exit 4 of the Garden State Parkway is a major access point for the Wildwoods and Lower/Middle Townships. The eastern section of the intersection is in the Special Flood Hazard Area and is vulnerable to flooding at tide levels that are four feet above normal high tide.
- CR-614 is a highly-flood vulnerable roadway located in West Wildwood. Much of the roadway begins to flood when tide levels exceed one foot above normal high tide. The road provides the only ingress and egress to/from West Wildwood.
- Though the Exit 6 interchange is on relatively high ground, in the future sea level rise will cause the interchange to be located in the Special Flood Hazard Area and be impacted by flood events.
- Route 147 is on generally higher land, however, upon entering North Wildwood the roadbed elevation decreases. Flooding impacts to the roadway begin at tide levels that are one foot above typical high tides.
- An undersized retention basin results in flooding in the intersection of State Route 47 and the newly completed bridge over Dennis Creek.
- Delaware Avenue/CR-640 connects the US Coast Guard Training Center to Cape May and evacuation routes to the north. Delaware Avenue is protected from Cape May Harbor by a rip-rap system that is subject to erosion and provides inconsistent protection.
- Pacific Avenue is a low-lying major roadway in Wildwood Crest that is vulnerable to nuisance flooding. The corridor is being slated for a revitalization and upgrade of which drainage improvements will be a part.
- The intersection of Avalon Boulevard and the Parkway (Exit 13) is entirely within the Special Flood Hazard Area. This is a vulnerability for evacuation for both travelers coming from Seven Mile Island as well as the mainland.
- Avalon Boulevard is entirely within the Special Flood Hazard Area between the Parkway and Seven Mile Island. As a major evacuation route, the road is vulnerable to flooding from surges three feet above high tide. The road carries more than 10,000 vehicles per day in the summertime.
- Ocean Drive/Third Avenue in Avalon and Stone Harbor is a major thoroughfare connecting the communities and is the longest and busiest roadway in Avalon and Stone Harbor that is most vulnerable



to flooding. Flooding impacts begin with a flood event bringing water levels just one foot above high tide. The removal of outfalls is currently in the design phase.

- The intersection of Roosevelt Boulevard (CR-623) and the Garden State Parkway sees nearly 20,000 vehicles on average each day. The intersection is located in the Special Flood Hazard Area and begins seeing flooding impacts when water levels are at least three feet above high tide. Flooding in this intersection is a major vulnerability to a major evacuation route for Ocean City.
- Roosevelt Boulevard (CR-623) is a major access road and evacuation route between Ocean City and the mainland. The road sees average daily traffic of between 10,000 and 25,000 vehicles depending on the season. The Boulevard sees flooding beginning at water levels that are two feet above high tide.
- Cape May is vulnerable to nuisance and stormwater flooding due to low-lying land elevations near Cape Island Creek and Frog Hollow. The City has installed stormwater pump stations to mitigate the flood risk. However, if the pumps fail due to severe storms, the stormwater pumps will not be able to function.
- County routes in Ocean City (including West Avenue and Bay Avenue) are low-lying and vulnerable to flooding. Ocean City has undertaken upgrades to some low-lying areas to address stormwater flooding, though these projects require integration.
- Bay Avenue is a low-lying thoroughfare and County route in Ocean City. Various sections of the roadway are particularly low-lying and vulnerable to flooding at tidal levels in excess of one foot above high tide.
- The County is reliant upon several communication towers that are vulnerable to wind damage. The loss of the towers would hinder communication during emergency situations.
- Certain portions of CR-657 near Beaver Dam Road are vulnerable to flooding owing to groundwater/high water table issues.
- Shunpike Road in Middle Township is vulnerable to stormwater flooding from inland creeks and waterways.
- Fishing Creek/Academy Road (CR-639) is a road running through uplands and wetlands in mainland Lower Township. The road experiences nuisance stormwater flooding.
- Fidler Road experiences localized drainage issues and requires repaving.
- Shunpike Road, a county road, in Lower Township runs through the mainland portion of Lower Township through both uplands and wooded wetlands. The road experiences flooding during rainstorms.
- CR-626 runs through the upland portion of Middle Township near Rio Grande. The road experiences flooding issues owing to stormwater and drainage.
- Seashore Road runs from Middle Township to West Cape May through Middle Township. The road is predominantly located along uplands but experiences nuisance stormwater flooding.
- Dias Creek Road runs between Route 47 and Cape May Courthouse through wetlands, forest, and low-density residential areas. The area is subject to stormwater flooding. Flooding for one side of the road has been mitigated.
- Goshen-Swainton Road (CR-646) runs east-west across Middle Township connecting the neighborhoods of Goshen and Swainton. The road traverses the Cape May National Wildlife Refuge and is impacted by stormwater flooding.
- The Perry Street (CR-633) outfall in West Cape May receives and conveys the Borough's drainage. The outfall requires reconfiguration due to the volume of water, causing the potential for backups.
- Townsends Inlet in Avalon experiences wave overtopping due to a lack of beach fill and protective measures. This threatens traveling vehicles and the integrity of the roadway.
- Ocean Drive runs for just over a mile in Middle Township between Stone Harbor and Grassy Sound. The road traverses a low-lying marsh island and can be impacted by tides between three and four feet above typical high tide.



- Goshen Road (CR-615) traverses through forested uplands and is vulnerable to stormwater flooding along a portion of its route in Middle Township.
- Cape May County does not have specific capital planning for post disaster recovery and improvements. A set-aside capital budgeting project for resilience projects can assist the County with prioritizing and funding capital projects addressing flooding and climate change.
- In the wake of flooding event and local economic changes, various rehabilitation, redevelopment areas, historic districts, open space plans, and other planning documents have been updated and re-examined.
- Cape May County’s ecologically valuable landscape and historically significant streetscapes are identified for preservation in the face of increased flooding risk. In order to mitigate future damage to flood hazards while maintaining the ecological and aesthetic integrity of the County, design standards for addressing the visual impact of flood resilience measures is needed.
- 34th Street/Roosevelt Boulevard (CR-623) is a major thoroughfare into Ocean City and also an evacuation route. The AADT on 34th Street ranges from nearly 12,500 vehicles in the off-season to nearly 25,000 vehicles in the summer months. The route is vulnerable to stormwater and tidal flooding owing to the low-lying elevation of the roadway and the lack of a structural barrier to flooding along Roosevelt Boulevard in the wetlands section.
- County roadways, particularly on the barrier islands, frequently experience flooding due to a combination of stormwater and tidal flooding. Motorists (particularly the County’s part-time resident and visitors) may not be aware of flooded roadways and risk life safety and property damage when crossing flooded roadways.
- The Strathmere section of Upper Township is a low-lying barrier island community. Commonwealth Ave/CR-619 is the major north-south route through Strathmere and connects the neighborhood to evacuation routes to the north in Ocean City and to the South in Sea Isle City. When Commonwealth Avenue is flooded, evacuation from the neighborhood is impeded. The Avenue will continue to experience inhibited access during rain and tidal events. Stormwater drainage was upgraded but outfall work has not yet been completed.
- CR-619 (Landis Avenue) and CR-625 (JFK Boulevard) are major thoroughfares in Sea Isle City and carry stormwater drainage infrastructure. The City experiences frequent nuisance flooding on these streets. Stormwater drainage was upgraded but outfall work has not yet been completed.
- Various traffic signals along County evacuation routes suffer outages during severe storms. Non-functional traffic signals increase the potential for accidents. Safe traffic control during storm events is pivotal for potential evacuations.
- The MUA-owned Ocean City Wastewater Treatment Facility located at 45th and Simpson Ave in Ocean City treats all of the wastewater from the island of Ocean City, NJ. It is a critical piece of infrastructure that currently is not hardened against a major flood. Furthermore, it resides directly adjacent to the intercostal waterway and just two city blocks from the Atlantic Ocean. In the event of a major flood caused by hurricane, nor’easter storm or the like that resulted in the facility going completely underwater, the facility’s ability to treat wastewater from the island of Ocean City would be compromised. In the worst-case scenario, the facility could be out of service for several weeks.

### **HAZARD AREA EXTENT AND LOCATION**

Hazard area extent and location maps have been generated for the County that illustrate the probable areas impacted. These maps are based on the best available data at the time of the preparation of this plan and are considered to be adequate for planning purposes and can be found in the individual hazard profiles in Section 5.

### **HAZARD RANKING**





The hazard 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 Cape May County. Cape May County has reviewed the 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 County assented to the proposed hazard ranking.

**Table 9.1-9. Cape May County Hazard Ranking Input**

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

### 9.1.7 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 9.1-10. 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 #
CMC-1	Support the mitigation of flood vulnerable private property through the continued implementation of the Enhanced RL/SRL Initiative	County Hazard Mitigation Coordinator, working with all municipalities (likely through NFIP Floodplain Administrator), including working with regional stakeholders	Ongoing capability		





Table 9.1-10. 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 #
CMC-2	Promote municipal participation in incentive-based programs, such as NFIP CRS (including through the ongoing support and lead of the “Enhanced RL/SRL Initiative”, NFPA Firewise Program, and NWS StormReady and Tsunami Ready.	CMC Engineering and Emergency Management	Ongoing capability		
CMC-3	Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0. Continue efforts to facilitate the annual plan review and reporting process through improved procedures and tools (e.g. online survey and reporting tools).	CMC Engineering and Emergency Management; with the support of municipal mitigation planning point of contacts	Ongoing capability		
CMC-4	Continue to develop, enhance, and implement existing emergency plans.	County OEM and NJOEM	Ongoing capability		
CMC-5	Prepare a Continuity of Operations Plan (COOP)	CMC OEM	Ongoing capability		
CMC-6	Update the Disaster Debris Management Plan (DDMP)	CMC MUA (Solid Waste)	Complete		
CMC-7	Update evacuation plan.	NJDOT; CMC OEM; State Police	Ongoing capability		
CMC-8	Create/enhance/ maintain mutual aid agreements	CMC Engineering and Emergency Management	Ongoing capability		
CMC-9	Identify order of magnitude costs for the large number of county-sponsored infrastructure mitigation projects	County Engineer working with local project leads	Ongoing capability		
CMC-10	Replace three (3) bridges and elevate 2.7 miles of County Route 621 in Lower Township.	County Engineering	In progress	X	2021_CapeMayCounty_008
CMC-11	Elevate ~1.5 miles of CR-606 (Sunset Boulevard) through the South Cape May Meadows (Lower and WCM).	County Engineering	In progress	X	2021_CapeMayCounty_009
CMC-12	Intersection of State Route 47 and the Garden State Parkway (Middle	NJDOT and NJ Turnpike Authority	No progress	X	2021_CapeMayCounty_010



Table 9.1-10. 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 #
	Township) – Elevate Route 47 roadway and ramps, which will require elevation of the Parkway bridge overpass.				
CMC-13	Elevate State Route 47 from George Redding Bridge to Susquehanna Avenue (Wildwood).	County Engineering and State DOT	Completed		
CMC-14	Address flooding on Glenwood Avenue (CR-614) through West Wildwood	County Engineering and municipality	No progress	X	2021_CapeMayCounty_011
CMC-15	Intersection of State Route 147 and the Garden State Parkway (Middle Township) – Elevate Route 147 roadway and ramps, which will require elevation of the Parkway bridge overpass	State DOT and NJ Turnpike Authority	No progress	X	2021_CapeMayCounty_012
CMC-16	Elevate tie-in section of State Route 147 into North Wildwood	State DOT and municipality	No progress	X	2021_CapeMayCounty_013
CMC-17	Elevate Stone Harbor Boulevard (CR-657) from the Parkway into Stone Harbor proper.	County Engineering and Municipality	No progress		
CMC-18	Elevate Courthouse-South Dennis Road (CR-657) through the swamps	County Engineering	No progress		
CMC-19	Identify and rectify cause of flooding at the intersection of State Route 47 and the newly completed bridge over Dennis Creek	State DOT	In progress	X	2021_CapeMayCounty_014
CMC-20	Elevate CR-603 through Lower and Middle Township through Fishing Creek Swamp.	County Engineering	No progress- Meadow is subject to flooding		
CMC-21	Install shoreline protection for CR-640 (entrance to Coast Guard Base) along the Cape May Harbor in the City of Cape May.	County Engineering and USACE	In progress	X	2021_CapeMayCounty_015
CMC-22	Upgrade stormwater drainage system along CR-621 and arterials in the Wildwoods.	County Engineering, Municipalities, and USACE	In progress	X	2021_CapeMayCounty_016
CMC-23	Elevate the Avalon Boulevard northbound onramp to the GSP.	NJ Turnpike Authority	No progress		



Table 9.1-10. 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 #
CMC-24	Intersection of Avalon Boulevard and the Garden State Parkway (Middle Township) – Elevate Avalon Boulevard roadway and ramps, which will first require elevation of the Parkway bridge overpass.	County Engineering with NJTA	No progress	X	2021_CapeMayCounty_017
CMC-25	Elevate Avalon Boulevard from Parkway into Avalon proper (~2.5 miles).	County Engineering	No progress	X	2021_CapeMayCounty_018
CMC-26	Elevate Sea Isle Boulevard (CR-601) from the Parkway to the Sea Isle bridge.	County Engineering	Complete		
CMC-27	Intersection of Sea Isle Boulevard (CR-601) and the Garden State Parkway (Dennis Township) – Elevate Sea Isle Boulevard roadway and ramps, which will first require elevation of the Parkway bridge overpass.	County Engineering and NJ Turnpike Authority	Complete		
CMC-28	Elevate JFK Boulevard (CR-625) into Sea Isle City (no funding source currently for project, but is in design phase), and upgrade stormwater system.	County Engineering	Complete		
CMC-29	Upgrade stormwater system on CR-619 through Stone Harbor and Avalon	County Engineering with municipalities	In progress	X	2021_CapeMayCounty_019
CMC-30	Upgrade exiting revetment wall (needs to be extended to the south and existing sections upgraded) and provide additional road protection to CR-619 in Strathmere to Ocean City, and elevate sections of road as needed.	County and USACE, with municipal support	\$2.9M—complete		
CMC-31	Intersection of Roosevelt Boulevard (CR-623) and the Garden State Parkway (Upper Township) – Roosevelt Boulevard Elevate roadway and ramps, which will first	County Engineering and NJ Turnpike Authority	No progress	X	2021_CapeMayCounty_020



Table 9.1-10. 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 #
	require elevation of the Parkway bridge overpass.				
CMC-32	Elevate Roosevelt Boulevard (CR-623) from the Parkway into Ocean City proper.	County Engineering	No progress	X	2021_CapeMayCounty_021
CMC-33	Install backup power to two stormwater pump stations at Madison Avenue and Grant Avenue in Cape May City. Work with the City to properly site the generator, which could be co-managed with the City to provide backup power for their station on Queen Street and Benton Avenue.	County Engineering and Municipality	No progress	X	2021_CapeMayCounty_022
CMC-34	Elevate Tuckahoe Road (CR-636) from Butter Road to CR-610.	County Engineering	No progress		
CMC-35	Work with the State DOT to address vulnerabilities on SR-50 along Cedar Swamp Creek.	State DOT	No progress		
CMC-36	Develop an engineering solution for severe flooding problems along NJ Route 50 and Hope Corson Road (CR-671).	State DOT with County and municipal support	Complete		
CMC-37	Upgrade storm drainage in Ocean City, which are currently not designed to handle a 25-year storm event.	County Engineering with municipal support	In progress	X	2021_CapeMayCounty_023
CMC-38	Elevate Bay Avenue (CR-659) in floodprone areas (33rd to 28th, 20th to 18th, 9th to 2nd).	County Engineering with municipal support	No progress	X	2021_CapeMayCounty_024
CMC-39	Retrofit or replace county communications towers (Paris Grant Program towers) including those located on water towers, which are currently rated for winds less than Cat1 strength	CMC OEM & Engineering working with facility owners and municipal support	In Progress	X	2021_CapeMayCounty_025
CMC-40	Ensure adequate communication systems and emergency alert systems are available and reliable.	CMC OEM	Ongoing capability		



Table 9.1-10. 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 #
CMC-41	Work with municipalities, Verizon and other wireless tower owners to assess their vulnerability to wind damage.	CMC OEM & Engineering working with facility owners and municipal support	Ongoing capability		
CMC-42	Identify proper locations for and install water draw (siphon) stations to increase fire-fighting capabilities.	County Emergency Management with facility owners	No progress		
CMC-43	Conduct an engineering study to understand flooding issues and evaluate possible solutions at low areas along Court House-South Dennis Road (CR657) near Beaver Dam Road in Dennis Township.	County Engineering and Municipality	No progress	X	2021_CapeMayCounty_026
CMC-44	Conduct an engineering study to understand flooding issues and evaluate possible solutions along the entire length of Shunpike Road (CR620) in Middle Township.	County Engineering with municipal support	No progress	X	2021_CapeMayCounty_027
CMC-45	Conduct an engineering study to understand flooding issues and evaluate possible solutions along Fishing Creek/Academy Road (CR639) in Lower Township.	County Engineering with municipal support	In progress	X	2021_CapeMayCounty_028
CMC-46	Conduct an engineering study to understand flooding issues and evaluate possible solutions at low areas along Woodbine-Ocean View Road (CR550) in Dennis Township.	County Engineering with municipal support	No progress		
CMC-47	Conduct an engineering study to understand flooding issues and evaluate possible solutions at low areas along Tabernacle Road (CR647) in Lower Township.	County Engineering with municipal support	Completed		





Table 9.1-10. 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 #
CMC-48	Conduct an engineering study to understand flooding issues and evaluate possible solutions along Fidler Road (CR638) in Dennis Township	County Engineering with municipal support	No progress	X	2021_CapeMayCounty_029
CMC-49	Conduct an engineering study to understand flooding issues and evaluate possible solutions along Webster Avenue (CR638) in the Borough of Woodbine.	County Engineering with municipal support	Complete		
CMC-50	Conduct an engineering study to understand flooding issues and evaluate possible solutions along Shunpike Road (CR644) in Lower Township	County Engineering with municipal support	No progress	X	2021_CapeMayCounty_030
CMC-51	Conduct an engineering study to understand flooding issues and evaluate possible solutions along Railroad Avenue (CR626) in Middle Township	County Engineering with municipal support	In progress	X	2021_CapeMayCounty_031
CMC-52	Conduct an engineering study to understand flooding issues and evaluate possible solutions along Seashore Road (CR626) in Lower Township	County Engineering with municipal support	In progress	X	2021_CapeMayCounty_032
CMC-53	Conduct an engineering study to understand flooding issues and evaluate possible solutions along Dias Creek Road (CR612) in Middle Township	County Engineering with municipal support	In progress	X	2021_CapeMayCounty_033
CMC-54	Conduct an engineering study to understand flooding issues and evaluate possible solutions along Indian Trail Road (CR618) in Middle Township	County Engineering with municipal support	Complete		
CMC-55	Conduct an engineering study to understand flooding issues and evaluate possible solutions along Goshen-	County Engineering with municipal support	In progress		2021_CapeMayCounty_034



Table 9.1-10. 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 #
	Swainton Road (CR646) in Middle Township				
CMC-56	Conduct an engineering study to understand flooding issues and evaluate possible solutions along Corsons Tavern Road (CR628) in Dennis Township.	County Engineering with municipal support	Completed		
CMC-57	Upgrade stormwater drains and outfalls along Beach Drive (CR603) in Cape May City.	County Engineering with municipal support	In progress	X	2021_CapeMayCounty_006
CMC-58	Develop a stormwater master plan for West Cape May	County Engineering with municipal support	No progress	X	2021_CapeMayCounty_035
CMC-59	Support municipalities in either the development or update of local stormwater master plans	County Engineering with municipal support	Ongoing Capability		
CMC-60	Install shore protection along Ocean Drive (CR619) at Townsends Inlet in Avalon.	County Engineering/ Planning with municipal support	No progress	X	2021_CapeMayCounty_036
CMC-61	Install shore protection along Ocean Drive (CR619) at Corsons Inlet in Upper Township and Ocean City	County Engineering with municipal support	Complete		
CMC-62	Install shore/roadway protection along Ocean Drive (CR619) in Middle Township	County Engineering with municipal support	No progress	X	2021_CapeMayCounty_037
CMC-63	Construction of storm drain pipe to minimize flooding on Goshen Road (CR615) from Johnson Lane to Church Street in Middle Township.	County Engineering with municipal support	In progress	X	2021_CapeMayCounty_038
CMC-64	Construction of storm sewer system to alleviate flooding on Court House – South Dennis Road (CR657) from Village Drive to College Drive in Middle Township.	County Engineering with municipal support	Complete		
CMC-65	Work with those communities with significant wildfire risk to identify and implement wildfire mitigation activities, programs and initiatives, including community participation	County Fire Coordinator	Ongoing capability		



Table 9.1-10. 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 #
	in the NFPA “Firewise” program				
CMC-66	Develop a five year Post Disaster Recovery Capital Improvement Plan for capital projects directly linked to recovery, mitigation or preparedness.	CMC Planning Department, Working with Engineering/DPW and OEM	No progress	X	2021_CapeMayCounty_039
CMC-67	Update the County Master Plan with a Community Resiliency Element that reviews the Land Use Plan Element and development standards against the vulnerability issues outlined in the SRPR and adopt as a Master Plan Element	CMC Planning Department, Working with Engineering/DPW and OEM	Ongoing capability		
CMC-68	Review zoning and land use regulations against the vulnerability issues outlined in this SRPR and develop amendments to anticipate necessary changes to height, bulk and setback requirements needed to improve resiliency based on recommendations in the Community Resiliency Element	CMC Planning Department	Ongoing capability		
CMC-69	Prepare, modify or replace plans for Local Neighborhoods or specific areas that were impacted by Sandy (i.e. Redevelopment or Rehabilitation Plans, Economic Development Plans and Strategies, Historic District Plans and Open Space/Recreation Plans).	CMC Planning with Municipalities	In progress	X	2021_CapeMayCounty_040
CMC-70	Review existing Permitting procedures to determine improvements for fast-tracking/streamlining for expediting projects directly related to recovery or mitigation and that are consistent	CMC Planning Department	Ongoing capability		



Table 9.1-10. 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 #
	with adopted Design Standards				
CMC-71	Develop design standards to address the visual impact of mitigation measures such as elevating bulkheads, elevating buildings on foundations or pilings, etc. Such design standards might include requirements for skirting exposed pilings, parking under the lowest habitable floor, using exterior decking to stagger stairways to elevated first floor levels, etc.	CMC Planning Department	In progress	X	2021_CapeMayCounty_041
CMC-72	The long term impacts of Future Sea Level Rise should be projected and studied for Cape May County.	CMC Planning Department and OEM, working with NOAA/Rutgers	Ongoing capability		
CMC-73	Encourage communities to participate in the Getting To Resilience community planning evaluation tool from the Jacques Cousteau National Estuarine Research Reserve.	CMC Planning with Municipalities	Ongoing capability		
CMC-74	Support USACE Beach & Dune replenishment efforts.	USACE	Ongoing capability		
CMC-75	Obtain backup power to ensure continuity of operations for stormwater, wastewater, public potable water, pumping stations, etc.	CMC Engineering with Municipalities	Ongoing capability		
CMC-76	Install generators on buildings and facilities that operate as temporary shelters.	CMC Engineering, working with facility owners/operators	Ongoing capability		
CMC-77	34 <sup>th</sup> Street (CR623) in Ocean City - design and install stormwater pump station.	CMC Engineering Working with Ocean City	No progress	X	2021_CapeMayCounty_042
CMC-78	Install variable message signs on roadways that have a tendency to flood	CMC Engineering working with	In progress	X	2021_CapeMayCounty_043



Table 9.1-10. 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 #
		local OEM, Police and Fire			
CMC-79	Upgrade and upsize stormwater outfall pipes in Strathmere section of Upper Township.	CMC Engineering Working with Upper Township	In progress	X	2021_CapeMayCounty_044
CMC-80	Upgrade and upsize stormwater outfall pipes in Sea Isle City. Due to the low lying nature of portions of Sea Isle City	CMC Engineering Working with Sea Isle City	In progress	X	2021_CapeMayCounty_045
CMC-81	Modify traffic signals on evacuation routes to be able to run off small portable generator	CMC Engineering; working with NJDOT and municipalities as necessary	In progress	X	2021_CapeMayCounty_046
CMC-82	Replace corrugated metal stormwater pipes throughout the County.	CMC Engineering; working with NJDOT and municipalities as necessary	Ongoing capability		
CMC-83	Install valves on the ends of outfall pipes to prevent tides from backing up through the stormwater drainage systems. Replace valves on outfall pipes that no longer function as intended.	CMC Engineering	Ongoing capability		

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

Cape May County 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. Cape May County 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 9.1-11 summarizes the comprehensive-range of specific mitigation initiatives Cape May County 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 criteria were used to evaluate each action, including an evaluation of the benefits and costs. For each new mitigation action, a numeric rank was assigned (-1, 0, or 1) for each of the 14 evaluation criteria. The results of this evaluation, in addition to input from the County, were then used to prioritize the mitigation initiatives as 'High', 'Medium', or 'Low.' Table 9.1-12 summarizes the evaluation of each mitigation initiative and the resulting priority, listed by Action Number.



Table 9.1-11. 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-CapeMay County-001	Saltwater Mitigation Initiative	<p><b>Problem:</b> Cape May County has notable groundwater intrusion issues due to water withdrawals and the sensitivity of the underlying aquifer.</p> <p><b>Solution:</b> The County MUA proposes to examine the feasibility of groundwater recharge projects that would entail County treatment plants pumping effluent into the aquifer to push out salt water and mitigate the cost and hazard of saltwater intrusion into the County’s aquifer.</p>	Existing	Drought	1, 5, 6	Cape May County MUA; NJDEP; sewer operators	MUA funds; user fees	Reduced saltwater intrusion into County aquifers	High	Long Term	High	NSP	NR; PR
2021-CapeMay County-002	Public Health Capacity Building	<p><b>Problem:</b> Cape May County’s Health Department has faced significant challenges owing to COVID-19. Beginning in Fall 2021, the County’s case rate climbed significantly upwards and is placing strain on the County’s healthcare system. The County has identified a need to support mobilization as vaccines arrive.</p> <p><b>Solution:</b> Support the integration of Public Health response with Emergency Management and take advantage of emerging technologies to implement life-saving projects and mitigation strategies for Cape May County Residents. The County will support the acquisition of PPE and vaccine distribution equipment.</p>	New	Disease Outbreak	1, 3, 4, 6	Cape May County Public Health; Cape May County Emergency Management	CDC; CDBG; HMGP	Reduced infection of COVID-19.	Medium	Short term (DOF)	High	EAP	PI; PR; ES
2021-CapeMay County-003	County Radio Acquisitions	<p><b>Problem:</b> Cape May County law enforcement agencies recently upgraded to P-25 compliant radios. However, County EMS and fire departments have seen patchwork acquisition of P-25 radios due to the high cost of new radios.</p> <p><b>Solution:</b> The County proposes to purchase 700 MHz radios and systems for Departments. This will allow Departments with fewer financial resources the ability to more quickly integrate into the new P-25 system. Additionally, the County proposes to undertake infrastructure improvements necessary to support the radio implementation.</p>	New	All hazard	1, 3, 4, 6	Cape May County Emergency Management	AFG; HMGP; County Funds; fire company funds	Enhanced inter-operability and communication	High	Short term (DOF)	High	EAP	ES
2021-CapeMay County-004	Townsend’s Inlet Seawall Mitigation	<p><b>Problem:</b> Ocean Drive (CR-619) crossing Townsend’s Inlet and connecting Sea Isle City and Avalon is vulnerable to coastal erosion. The road is vulnerable to overtopping and waves crash over the existing seawall.</p> <p><b>Solution:</b> In conjunction with the Army Corps, the County proposes to extend the pilecap on the seawall at Townsend’s Inlet and elevate it 18 inches to minimize overwash.</p>	Existing	Flood; Hurricane/ Tropical Storm; Nor’easter; Climate Change and Sea	1, 5, 6	US Army Corps of Engineers (lead); Cape May County Public Works/County Engineer	US Army Corps; County Funds	Reduce overtopping from waves; prevent car damage; maintain use of roadway	\$1 million	Long-term	Medium	SIP	SP



Table 9.1-11. 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
				Level Rise; Coastal Erosion									
2021-CapeMay County-005	CR-604/Beach Ave Flood Protection	<p><b>Problem:</b> The existing timber groin on Beach Ave (CR-604) in Cape May is deteriorated and needs to be replaced from Wilmington Avenue south. See also 2021-Cape May City-007</p> <p><b>Solution:</b> Replace the existing timber groin with a hardened structure that extends the existing promenade and offers an enhanced level of protection from storm surge and flooding events.</p>	Existing	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise; Coastal Erosion	1, 5, 6	US Army Corps of Engineers; Cape May County Public Works/County Engineer; NJDEP; Cape May City	US Army Corps of Engineers; FEMA-FMA; County funds; City funds	Life safety- Reduced risk of overtopping and inundation from Atlantic Ocean	High	Short-term	High	SIP	SP
2021-CapeMay County-006	CR-604/Beach Ave Drainage Improvements	<p><b>Problem:</b> Beach Ave (CR-604) discharges stormwater runoff through outfalls to the Ocean. These outfalls fill with sand due to littoral drift, causing clogs and water backup that causes flooding and requires frequent maintenance.</p> <p><b>Solution:</b> The County proposes to redirect flow of stormwater through the use of pumping stations so that stormwater does not discharge into the Ocean and is routed towards a more resilient location.</p>	Existing	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise; Coastal Erosion	1, 5, 6	US Army Corps of Engineers; Cape May County Public Works/County Engineer; NJDEP; Cape May City	US Army Corps of Engineers; FEMA-FMA; County funds; City funds	Reduced flooding and maintenance costs pertaining to drainage	TBD	Long-term	Medium	SIP	SP
2021-CapeMay County-007 (Former CMC-10)	CR-621 Pacific Ave/Ocean Drive	<p><b>Problem:</b> CR-621 is a designated County evacuation route for the Wildwoods, including Diamond Beach in Lower Township. The Route traverses a low-lying stretch of marsh that is vulnerable to tidal and nuisance flooding. Additionally, the Route is served by several bridges that are beyond their useful lives.</p> <p><b>Solution:</b> Replace three (3) bridges and elevate 2.7 miles of County Route 621 in Lower Township. The projects are currently in the concept development stage and have been submitted to NJDOT for preliminary engineering.</p>	Existing	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise	1, 3, 4, 6	County Engineering	County Funds; NJDOT; BRIC	High	Medium-High	Ongoing – this has been completed on some projects	Medium	SIP	PP
2021-CapeMay County-	CR-606/Sunset	<p><b>Problem:</b> Sunset Boulevard (CR-606) is a county road connecting Cape May Point and Cape May Point State Park to West Cape May, Cape May, and evacuation</p>	Existing	Flood; Hurricane/Tropical	1, 3, 4	County Engineering	County Funds;	Medium	High	Long Term DOF	Low	SIP	PP



Table 9.1-11. 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
008 (Former CMC-11)	Boulevard	<p>routes to the north. The road is low-lying and has portions that can flood with water levels as little as one foot above high tide.</p> <p><b>Solution:</b> Elevate ~1.5 miles of CR-606 (Sunset Boulevard) through the South Cape May Meadows (Lower and WCM). Preliminary work has been completed for drainage and the project is in concept design.</p>		Storm; Nor'easter; Climate Change and Sea Level Rise			NJDOT; BRIC			(lower priority project – area is not as floodprone as many other areas)			
2021-CapeMay County-009 (Former CMC 12)	GSP Exit 4 Elevation	<p><b>Problem:</b> Exit 4 of the Garden State Parkway is a major access point for the Wildwoods and Lower/Middle Townships. The eastern section of the intersection is in the Special Flood Hazard Area and is vulnerable to flooding at tide levels that are four feet above normal high tide.</p> <p><b>Solution:</b> Intersection of State Route 47 and the Garden State Parkway (Middle Township) – Elevate Route 47 roadway and ramps, which will require elevation of the Parkway bridge overpass.</p>	Existing	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise	1, 3, 4	NJDOT and NJ Turnpike Authority	Transportation Trust Fund; NJTA Capital Funds	Medium	High	Long Term (not currently under active consideration by State)	Medium	SIP	PP
2021-CapeMay County-010 (Former CMC 14)	Glenwood Avenue (CR-614) Flood Mitigation	<p><b>Problem:</b> CR-614 is a highly-flood vulnerable roadway located in West Wildwood. Much of the roadway begins to flood when tide levels exceed one foot above normal high tide. The road provides the only ingress and egress to/from West Wildwood.</p> <p><b>Solution:</b> Address flooding on Glenwood Avenue (CR-614) through West Wildwood.</p>	Existing	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise	1, 3, 4	County Engineering and municipality	County funds; NJDOT; BRIC	High	High	Long Term DOF	Medium	SIP	PP
2021-CapeMay County-011 (Former CMC 15)	GSP Exit 6 Flood Mitigation	<p><b>Problem:</b> Though the Exit 6 interchange is on relatively high ground, in the future sea level rise will cause the interchange to be located in the Special Flood Hazard Area and be impacted by flood events.</p> <p><b>Solution:</b> Intersection of State Route 147 and the Garden State Parkway (Middle Township) – Elevate Route 147 roadway and ramps, which will require elevation of the Parkway bridge overpass</p>	Existing	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise	1, 3, 4	State DOT and NJ Turnpike Authority	Transportation Trust Fund; NJTA Capital Funds	High	High	Long Term DOF	Medium	SIP	PP



Table 9.1-11. 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-CapeMay County-012 (Former CMC 16)	Route 147 Elevation	<b>Problem:</b> Route 147 is on generally higher land, however, upon entering North Wildwood the roadbed elevation decreases. Flooding impacts to the roadway begin at tide levels that are one foot above typical high tides.	Existing	Flood; Hurricane/ Tropical Storm; Nor'easter; Climate Change and Sea Level Rise	1, 3, 4	State DOT and municipality	Transportation Trust Fund; NJDOT	High	High	Long Term DOF	Medium	SIP	PP
		<b>Solution:</b> Elevate tie-in section of State Route 147 into North Wildwood											
2021-CapeMay County-013 (Former CMC 19)	Dennis Creek at Route 47 Flood Mitigation	<b>Problem:</b> An undersized retention basin results in flooding in the intersection of State Route 47 and the newly completed bridge over Dennis Creek.	Existing	Flood; Hurricane/ Tropical Storm; Nor'easter; Climate Change and Sea Level Rise	1, 3, 6	State DOT	Transportation Trust Fund; NJDOT	High	Medium	In-progress	Medium	SIP	PP
		<b>Solution:</b> Rectify cause of flooding at the intersection of State Route 47 and the newly completed bridge over Dennis Creek. A channel was recently cut into the meadows to alleviate the flooding, but the issue is not fully addressed.											
2021-CapeMay County-014 (Former CMC 21)	CR-640/Coast Guard Shoreline Protection	<b>Problem:</b> Delaware Avenue/CR-640 connects the US Coast Guard Training Center to Cape May and evacuation routes to the north. Delaware Avenue is protected from Cape May Harbor by a rip-rap system that is subject to erosion and provides inconsistent protection.	Existing	Flood; Hurricane/ Tropical Storm; Nor'easter; Climate Change and Sea Level Rise; Coastal Erosion	1, 3, 5	County Engineering and USACE	US Army Corps of Engineers; BRIC; USCG	High	High	In-progress	High	SIP	PP
		<b>Solution:</b> Install shoreline protection for CR-640 (entrance to Coast Guard Base) along the Cape May Harbor in the City of Cape May.											
2021-CapeMay County-015 (Former CMC 22)	Wildwoods CR-621 Flood Mitigation	<b>Problem:</b> Pacific Avenue is a low-lying major roadway in Wildwood Crest that is vulnerable to nuisance flooding. The corridor is being slated for a revitalization and upgrade of which drainage improvements will be a part.	Existing	Flood; Hurricane/ Tropical Storm; Nor'easter; Climate Change and Sea Level Rise	1, 3, 6	County Engineering, Municipalities, and USACE	County Funds; NJDOT	High	High	Long Term DOF	Medium	SIP	PP
		<b>Solution:</b> Upgrade stormwater drainage system along CR-621 and arterials in the Wildwoods.											





Table 9.1-11. 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-CapeMay County-016 (Former CMC 24)	GSP Exit 13 Flood Mitigation	<b>Problem:</b> The intersection of Avalon Boulevard and the Parkway (Exit 13) is entirely within the Special Flood Hazard Area. This is a vulnerability for evacuation for both travelers coming from Seven Mile Island as well as the mainland.	Existing	Flood; Hurricane/ Tropical Storm; Nor'easter; Climate Change and Sea Level Rise	1, 3, 4	County Engineering with NJTA	Transportation Trust Fund; NJTA Capital Funds	High	High	Long Term DOF	Medium	SIP	PP
		<b>Solution:</b> Intersection of Avalon Boulevard and the Garden State Parkway (Middle Township) – Elevate Avalon Boulevard roadway and ramps, which will first require elevation of the Parkway bridge overpass.											
2021-CapeMay County-017 (Former CMC 25)	Avalon Boulevard (CR-601) Elevation	<b>Problem:</b> Avalon Boulevard is entirely within the Special Flood Hazard Area between the Parkway and Seven Mile Island. As a major evacuation route, the road is vulnerable to flooding from surges three feet above high tide. The road carries more than 10,000 vehicles per day in the summertime.	Existing	Flood; Hurricane/ Tropical Storm; Nor'easter; Climate Change and Sea Level Rise	1, 3, 4	County Engineering	County Funds; NJDOT; FMA	High	High	Long Term DOF	Medium	SIP	PP
		<b>Solution:</b> Elevate Avalon Boulevard from Parkway into Avalon proper (~2.5 miles).											
2021-CapeMay County-018 (Former CMC 29)	Seven Mile Island CR-619 Stormwater Improvements	<b>Problem:</b> Ocean Drive/Third Avenue in Avalon and Stone Harbor is a major thoroughfare connecting the communities and is the longest and busiest roadway in Avalon and Stone Harbor that is most vulnerable to flooding. Flooding impacts begin with a flood event bringing water levels just one foot above high tide. The removal of outfalls is currently in the design phase.	Existing	Flood; Hurricane/ Tropical Storm; Nor'easter; Climate Change and Sea Level Rise	1, 3, 4, 6	County Engineering with municipalities	BRIC; local match	High	High	Long Term DOF	Medium	SIP	PP
		<b>Solution:</b> Upgrade stormwater system on CR-619 through Stone Harbor and Avalon											
2021-CapeMay County-019 (Former CMC 31)	GSP Exit 25 Flood Mitigation	<b>Problem:</b> The intersection of Roosevelt Boulevard (CR-623) and the Garden State Parkway sees nearly 20,000 vehicles on average each day. The intersection is located in the Special Flood Hazard Area and begins seeing flooding impacts when water levels are at least three feet above high tide. Flooding in this intersection is a major vulnerability to a major evacuation route for Ocean City.	Existing	Flood; Hurricane/ Tropical Storm; Nor'easter; Climate Change and Sea Level Rise	1, 3, 4	County Engineering and NJ Turnpike Authority	Transportation Trust Fund; NJTA Capital Funds	High	High	Long Term DOF	Medium	SIP	PP
		<b>Solution:</b> Intersection of Roosevelt Boulevard (CR-623) and the Garden State Parkway (Upper Township) – Roosevelt Boulevard Elevate roadway and ramps, which will first require elevation of the Parkway bridge overpass.											



Table 9.1-11. 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-CapeMay County-020 (Former CMC 32)	Ocean City CR-623 Elevation	<b>Problem:</b> Roosevelt Boulevard (CR-623) is a major access road and evacuation route between Ocean City and the mainland. The road sees average daily traffic of between 10,000 and 25,000 vehicles depending on the season. The Boulevard sees flooding beginning at water levels that are two feet above high tide. <b>Solution:</b> Elevate Roosevelt Boulevard (CR-623) from the Parkway into Ocean City proper.	Existing	Flood; Hurricane/ Tropical Storm; Nor'easter; Climate Change and Sea Level Rise	1, 3, 4	County Engineering	HMA grants; County funds; local match	High	High	Long Term DOF	Medium	SIP	PP
2021-CapeMay County-021 (Former CMC 33)	Cape May City Stormwater Pump Station Resilience	<b>Problem:</b> Cape May is vulnerable to nuisance and stormwater flooding due to low-lying land elevations near Cape Island Creek and Frog Hollow. The City has installed stormwater pump stations to mitigate the flood risk. However, if the pumps fail due to severe storms, the stormwater pumps will not be able to function. <b>Solution:</b> Install backup power to two stormwater pump stations at Madison Avenue and Grant Avenue in Cape May City. Work with the City to properly site the generator, which could be co-managed with the City to provide backup power for their station on Queen Street and Benton Avenue.	Existing	Flood; Hurricane/ Tropical Storm; Nor'easter; Climate Change and Sea Level Rise	1, 3, 4, 6	County Engineering and Municipality	BRIC/HM GP	High	M (not high \$ cost)	Long Term DOF	High	SIP	PP
2021-CapeMay County-022 (Former CMC 37)	Ocean City CR-619/CR-656 Upgrades	<b>Problem:</b> County routes in Ocean City (including West Avenue and Bay Avenue) are low-lying and vulnerable to flooding. Ocean City has undertaken upgrades to some low-lying areas to address stormwater flooding, though these projects require integration. <b>Solution:</b> Upgrade storm drainage in Ocean City to meet the current 25-year design storm, inclusive of larger drainage pipes.	Existing	Flood; Hurricane/ Tropical Storm; Nor'easter; Climate Change and Sea Level Rise	1, 3, 5, 6	County Engineering with municipal support	City; County Funds; HMA Grant	High	High	In Progress	Medium	SIP	PP
2021-CapeMay County-023 (Former CMC 38)	Bay Avenue (CR-659) Elevation	<b>Problem:</b> Bay Avenue is a low-lying thoroughfare and County route in Ocean City. Various sections of the roadway are particularly low-lying and vulnerable to flooding at tidal levels in excess of one foot above high tide. <b>Solution:</b> Elevate Bay Avenue (CR-659) to a congruent height (at least 3 ft NAVD88) in floodprone areas (33rd to 28th, 20th to 18th, 9th to 2nd).	Existing	Flood; Hurricane/ Tropical Storm; Nor'easter; Climate Change and Sea Level Rise	1, 3, 4	County Engineering with municipal support	City; County Funds; HMA Grant	High	High	Long Term DOF	Medium	SIP	PP



Table 9.1-11. 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-CapeMay County-024 (Former CMC 39)	Communication Tower Mitigation	<p><b>Problem:</b> The County is reliant upon several communication towers that are vulnerable to wind damage. The loss of the towers would hinder communication during emergency situations.</p> <p><b>Solution:</b> Retrofit or replace county communications towers (Paris Grant Program towers) including those located on water towers, which are currently rated for winds less than Cat1 strength</p>	Existing	Hurricane/ Tropical Storm; Nor'easter; Severe Storm; Severe Winter Weather	1, 3, 4, 6	CMC OEM & Engineering working with facility owners and municipal support	County and Paris Grant funds	High	High	In progress	High	SIP	PP; ES
2021-CapeMay County-025 (Former CMC 43)	CR-657 Beaver Dam Flood Assessment	<p><b>Problem:</b> Certain portions of CR-657 near Beaver Dam Road are vulnerable to flooding owing to groundwater/high water table issues.</p> <p><b>Solution:</b> Conduct an engineering study to understand flooding issues and evaluate possible solutions at low areas along Court House-South Dennis Road (CR657) near Beaver Dam Road in Dennis Township.</p>	Existing	Severe Weather, Flood; Hurricane and Tropical Storm	1, 3, 4, 5, 6	County Engineering and Municipality	County and Local Funding	Medium - High	Medium - High	Medium Term DOF	High	LPR	PR
2021-CapeMay County-026 (Former CMC 44)	Shunpike Road (CR620) Flood Mitigation	<p><b>Problem:</b> Shunpike Road in Middle Township is vulnerable to stormwater flooding from inland creeks and waterways.</p> <p><b>Solution:</b> Conduct an engineering study to understand flooding issues and evaluate possible solutions along the entire length of Shunpike Road (CR620) in Middle Township.</p>	Existing	Severe Weather, Flood; Hurricane and Tropical Storm	1, 3, 4, 5, 6	County Engineering with municipal support	County and Local Funding	Medium	Medium	Long Term DOF	High	LPR	PR
2021-CapeMay County-027 (Former CMC 45)	Fishing Creek/Academy Road (CR639) Flood Mitigation	<p><b>Problem:</b> Fishing Creek/Academy Road (CR-639) is a road running through uplands and wetlands in mainland Lower Township. The road experiences nuisance stormwater flooding.</p> <p><b>Solution:</b> Conduct an engineering study to understand flooding issues and evaluate possible solutions along Fishing Creek/Academy Road (CR639) in Lower Township.</p>	Existing	Severe Weather, Flood; Hurricane and Tropical Storm	1, 3, 4, 5, 6	County Engineering with municipal support	County and Local Funding	Medium	Medium	In progress – 1% complete	High	LPR	PR
2021-CapeMay County-028 (Former CMC 48)	Fidler Road (CR638) Drainage Mitigation	<p><b>Problem:</b> Fidler Road experiences localized drainage issues and requires repaving.</p> <p><b>Solution:</b> Conduct an engineering study to understand flooding issues and evaluate possible solutions along Fidler Road (CR638) in Dennis Township. Once solutions are identified, implement solutions (apply for and obtain grant funding if needed).</p>	Existing	Severe Weather, Flood; Hurricane and Tropical Storm	1, 3, 4, 5, 6	County Engineering with municipal support	County and Local Funding	Medium	Medium	Long Term DOF and permitting issues	High	LPR	PR
2021-CapeMay	Shunpike Road	<p><b>Problem:</b> Shunpike Road, a county road, in Lower Township runs through the mainland portion of Lower</p>	Existing	Severe Weather,	1, 3, 4, 5, 6	County Engineering		Medium	Medium		High	LPR	PR



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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
County-029 (Former CMC 50)	(CR644) Flood Mitigation	Township through both uplands and wooded wetlands. The road experiences flooding during rainstorms. <b>Solution:</b> Conduct an engineering study to understand flooding issues and evaluate possible solutions along Shunpike Road (CR644) in Lower Township		Flood; Hurricane and Tropical Storm		with municipal support	County and Local Funding			Long Term DOF			
2021-CapeMay County-030 (Former CMC 51)	Railroad Avenue (CR626) Flood Mitigation	<b>Problem:</b> CR-626 runs through the upland portion of Middle Township near Rio Grande. The road experiences flooding issues owing to stormwater and drainage. <b>Solution:</b> Conduct an engineering study to understand flooding issues and evaluate possible solutions along Railroad Avenue (CR626) in Middle Township	Existing	Severe Weather, Flood; Hurricane and Tropical Storm	1, 3, 4, 5, 6	County Engineering with municipal support	County and Local Funding	Medium	Medium	Long Term DOF	High	LPR	PR
2021-CapeMay County-031 (Former CMC 52)	Seashore Road (CR626) Flood Mitigation	<b>Problem:</b> Seashore Road runs from Middle Township to West Cape May through Middle Township. The road is predominantly located along uplands but experiences nuisance stormwater flooding. <b>Solution:</b> Conduct an engineering study to understand flooding issues and evaluate possible solutions along Seashore Road (CR626) in Lower Township	Existing	Severe Weather, Flood; Hurricane and Tropical Storm	1, 3, 4, 5, 6	County Engineering with municipal support	County and Local Funding	Medium	Medium	Long Term DOF	High	LPR	PR
2021-CapeMay County-032 (Former CMC 53)	Dias Creek Road (CR612) Flood Mitigation	<b>Problem:</b> Dias Creek Road runs between Route 47 and Cape May Courthouse through wetlands, forest, and low-density residential areas. The area is subject to stormwater flooding. Flooding for one side of the road has been mitigated. <b>Solution:</b> Conduct an engineering study to understand flooding issues and evaluate possible solutions along Dias Creek Road (CR612) in Middle Township	Existing	Severe Weather, Flood; Hurricane and Tropical Storm	1, 3, 4, 5, 6	County Engineering with municipal support	County and Local Funding	Medium	Medium	Long Term DOF	High	LPR	PR
2021-CapeMay County-033 (Former CMC 55)	Goshen-Swainton Road (CR646) Flood Mitigation	<b>Problem:</b> Goshen-Swainton Road (CR-646) runs east-west across Middle Township connecting the neighborhoods of Goshen and Swainton. The road traverses the Cape May National Wildlife Refuge and is impacted by stormwater flooding. <b>Solution:</b> Conduct an engineering study to understand flooding issues and evaluate possible solutions along Goshen-Swainton Road (CR646) in Middle Township	Existing	Severe Weather, Flood; Hurricane and Tropical Storm	1, 3, 4, 5, 6	County Engineering with municipal support	County and Local Funding	Medium	Medium	Long Term DOF	High	LPR	PR
2021-CapeMay	West Cape May	<b>Problem:</b> The Perry Street (CR-633) outfall in West Cape May receives and conveys the Borough's	Existing	Flood; Hurricane/	1, 3, 4, 6	County Engineering;		Medium-decreased	Low	Short Term	High	LPR	PR



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County-034 (Former CMC 58)	Drainage Improvements	drainage. The outfall requires reconfiguration due to the volume of water, causing the potential for backups. <b>Solution:</b> Develop a stormwater master plan for West Cape May		Tropical Storm; Nor'easter; Climate Change and Sea Level Rise; Coastal Erosion		West Cape May Borough	County and Local Funding	nuisance flooding					
2021-CapeMay County-035 (Former CMC 60)	Ocean Drive (CR619) Shore Protection at Townsends Inlet	<b>Problem:</b> Townsends Inlet in Avalon experiences wave overtopping due to a lack of beach fill and protective measures. This threatens traveling vehicles and the integrity of the roadway. <b>Solution:</b> Install shore protection along Ocean Drive (CR619) at Townsends Inlet in Avalon.	Existing	Flood; Hurricane/ Tropical Storm; Nor'easter; Climate Change and Sea Level Rise; Coastal Erosion	1, 3, 4, 6	County Engineering/ Planning with municipal support	County and local funding	Medium	Low	In progress – full implementation on DOF	High	SIP	PP
2021-CapeMay County-036 (Former CMC 62)	Ocean Drive (CR619) Flood Mitigation at Nummy Island	<b>Problem:</b> Ocean Drive runs for just over a mile in Middle Township between Stone Harbor and Grassy Sound. The road traverses a low-lying marsh island and can be impacted by tides between three and four feet above typical high tide. <b>Solution:</b> Install shore/roadway protection along Ocean Drive (CR619) in Middle Township	Existing	Flood; Hurricane/ Tropical Storm; Nor'easter; Climate Change and Sea Level Rise; Coastal Erosion	1, 3, 4, 6	County Engineering with municipal support	HMA Grants, County and Local Funding	High	High	Long Term DOF	High	SIP	PP
2021-CapeMay County-037 (Former CMC 63)	Goshen Road (CR615) Drainage Improvements	<b>Problem:</b> Goshen Road (CR-615) traverses through forested uplands and is vulnerable to stormwater flooding along a portion of its route in Middle Township. <b>Solution:</b> Construction of storm drain pipe to minimize flooding on Goshen Road (CR615) from Johnson Lane to Church Street in Middle Township.	New & Existing	Flood, Severe Weather; Hurricane and Tropical Storm	1, 3, 4, 6	County Engineering with municipal support	County funds	High	Medium	In progress – full implementation on DOF	High	SIP	PP
2021-CapeMay	Capital Improve	<b>Problem:</b> Cape May County does not have specific capital planning for post disaster recovery and	N/A	All Hazards	1, 3, 4, 6	CMC Planning	NJCA Grant	Medium	Low	Short Term	High	LPR	PR





Table 9.1-11. Proposed Hazard Mitigation Initiatives

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County-038 (Former CMC 66)	Capital Improvement Plan	improvements. A set-aside capital budgeting project for resilience projects can assist the County with prioritizing and funding capital projects addressing flooding and climate change. <b>Solution:</b> Develop a five-year Post Disaster Recovery Capital Improvement Plan for capital projects directly linked to recovery, mitigation or preparedness.				Department, Working with Engineering/DPW and OEM							
2021-CapeMay County-039 (CMC-69)	Neighborhood Adaptation Planning	<b>Problem:</b> In the wake of flooding event and local economic changes, various rehabilitation, redevelopment areas, historic districts, open space plans, and other planning documents have been updated and re-examined. <b>Solution:</b> Assist with the preparation of planning products for neighborhoods, parks, and local areas.	Existing	Severe Storm; Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise	1, 2, 3, 4, 5, 6	Cape May County Planning Department; Municipal partners	County funds	Enhanced planning for targeted neighborhoods and customized solutions for resilience and adaptation.	Low	Short-term	Medium	LPR	PR; NR
2021-CapeMay County-040 (Former CMC-71)	Cape May County Design Standards	<b>Problem:</b> Cape May County's ecologically valuable landscape and historically significant streetscapes are identified for preservation in the face of increased flooding risk. In order to mitigate future damage to flood hazards while maintaining the ecological and aesthetic integrity of the County, design standards for addressing the visual impact of flood resilience measures is needed. <b>Solution:</b> Develop design standards consistent with the County's landscapes and Creative Placemaking Plan to alleviate the impact of elevating bulkheads, buildings, and other floodproofing measures.	Existing	Severe Storm; Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise	1, 3, 4, 6	Cape May County Planning Department	County funds	Enhanced aesthetics for flood resilience initiatives	Low	Short-term	Medium	LPR	PR; NR; CR
2021-CapeMay County-041 (Former CMC-77)	34 <sup>th</sup> Street Stormwater Pump Station	<b>Problem:</b> 34 <sup>th</sup> Street/Roosevelt Boulevard (CR-623) is a major thoroughfare into Ocean City and also an evacuation route. The AADT on 34 <sup>th</sup> Street ranges from nearly 12,500 vehicles in the off-season to nearly 25,000 vehicles in the summer months. The route is vulnerable to stormwater and tidal flooding owing to the low-lying elevation of the roadway and the lack of a structural barrier to flooding along Roosevelt Boulevard in the wetlands section.	Existing	Severe Storm; Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change	1, 3, 4, 6	Cape May County Public Works/County Engineer; City of Ocean City	HMGP; County/local funds; FMA	Life safety-maintenance of evacuation route utility	High	Long Term DOF	Medium	SIP	PP



Table 9.1-11. 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
		<b>Solution:</b> The County proposes to install a stormwater pump station serving 34th Street to alleviate nuisance flooding on the road and maintain the utility of the evacuation route during flooding events.		and Sea Level Rise									
2021-CapeMay County-042 (Former CMC-78)	Road Flooding Warning Signs	<b>Problem:</b> County roadways, particularly on the barrier islands, frequently experience flooding due to a combination of stormwater and tidal flooding. Motorists (particularly the County’s part-time resident and visitors) may not be aware of flooded roadways and risk life safety and property damage when crossing flooded roadways. <b>Solution:</b> The County proposes to install variable message signs on roadways. Communication messages and system setup will be coordinated with OEM, police, fire departments, and public works to ensure that messages are useful and updated timely.	Existing	Severe Storm; Flood; Hurricane/ Tropical Storm; Nor’easter; Climate Change and Sea Level Rise	1, 2, 3, 4	Cape May County Public Works/County Engineer; Local agencies; Local fire departments	HMGP; County/local funds	Life safety-awareness of flooding	Low-Medium (per installation)	Short Term	Medium	SIP	PP; ES
2021-CapeMay County-043 (Former CMC-79)	Strathmere Drainage Improvements	<b>Problem:</b> The Strathmere section of Upper Township is a low-lying barrier island community. Commonwealth Ave/CR-619 is the major north-south route through Strathmere and connects the neighborhood to evacuation routes to the north in Ocean City and to the South in Sea Isle City. When Commonwealth Avenue is flooded, evacuation from the neighborhood is impeded. The Avenue will continue to experience inhibited access during rain and tidal events. Stormwater drainage was upgraded but outfall work has not yet been completed. <b>Solution:</b> The County, in conjunction with Upper Township, proposes improvements to Commonwealth Avenue to alleviate drainage issues and reduce flooding. Proposed upgrades include upgrading, upsizing, and redirecting stormwater outfall pipes to allow for the enhanced drainage of stormwater. Stormwater pump stations will be considered for feasibility.	Existing	Severe Storm; Flood; Hurricane/ Tropical Storm; Nor’easter; Climate Change and Sea Level Rise	1, 3, 4, 6	CMC Engineering Working with Upper Township	County	High	High	Long Term DOF	Medium	SIP	PP
2021-CapeMay County-044 (Former CMC-80)	Sea Isle City Drainage Improvements	<b>Problem:</b> CR-619 (Landis Avenue) and CR-625 (JFK Boulevard) are major thoroughfares in Sea Isle City and carry stormwater drainage infrastructure. The City experiences frequent nuisance flooding on these streets. Stormwater drainage was upgraded but outfall work has not yet been completed.	Existing	Severe Storm; Flood; Hurricane/ Tropical Storm;	1, 3, 4, 6	CMC Engineering working with Sea Isle City	County Funds; BRIC	Reduced disruption due to stormwater flooding	Medium	Long Term DOF	Medium	SIP	PP



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		<b>Solution:</b> The County proposes to undertake drainage improvements to these roadways and coordinate with Sea Isle City to facilitate drainage in the vicinity. Outfall pipes require upgrading and upsizing. Stormwater pump stations will be considered.		Nor'easter; Climate Change and Sea Level Rise									
2021-CapeMay County-045 (Former CMC-81)	Traffic Signal Outage Mitigation	<b>Problem:</b> Various traffic signals along County evacuation routes suffer outages during severe storms. Non-functional traffic signals increase the potential for accidents. Safe traffic control during storm events is pivotal for potential evacuations. <b>Solution:</b> The County proposes to retrofit existing traffic signals to protect life safety during outage incidents.	Existing	Severe Storm	1, 3, 4, 6	CMC Engineering; working with NJDOT and municipalities as necessary Municipal partners	County funds;	Mitigated life safety threats owing to hazard	Low-Medium	Long Term DOF	Medium	SIP	PP; PI; ES
2021-CapeMay County-046	CMCMUA – OCWTF Seawall	<b>Problem:</b> The MUA-owned Ocean City Wastewater Treatment Facility located at 45th and Simpson Ave in Ocean City treats all of the wastewater from the island of Ocean City, NJ. It is a critical piece of infrastructure that currently is not hardened against a major flood. Furthermore, it resides directly adjacent to the intercoastal waterway and just two city blocks from the Atlantic Ocean. In the event of a major flood caused by hurricane, nor'easter storm or the like that resulted in the facility going completely underwater, the facility's ability to treat wastewater from the island of Ocean City would be compromised. In the worst case scenario, the facility could be out of service for several weeks. <b>Solution:</b> The construction of a sea wall around the perimeter of the Ocean City Wastewater Facility would mitigate the catastrophic flood risk.	Existing	Severe Storm; Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise	1, 3, 4, 6	Cape May County MUA	County Funds, FMA, BRIC	Eliminate or reduce risk of loss of the Wastewater Treatment facility essential to public health of Ocean City.	\$7.5 M	3 Years	High	SIP	PP

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 9.1-12. 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-CapeMayCounty-001	Saltwater Mitigation Initiative	1	1	1	1	1	1	0	1	1	1	0	0	1	0	10	High ⚠
2021-CapeMayCounty-002	Public Health Capacity Building	1	1	1	1	1	1	0	1	1	1	0	1	1	1	12	High
2021-CapeMayCounty-003	County Radio Acquisitions	1	1	1	1	1	1	0	1	1	1	1	1	1	1	13	High
2021-CapeMayCounty-004	Townsend's Inlet Seawall Mitigation	1	1	0	1	1	1	0	-1	0	0	1	1	1	0	7	Medium
2021-CapeMayCounty-005	CR-604/Beach Ave Flood Protection	1	1	1	1	1	1	0	-1	1	1	1	1	1	1	11	High
2021-CapeMayCounty-006	CR-604/Beach Ave Drainage Improvements	1	0	0	1	1	1	0	0	0	0	1	0	1	1	8	Medium
2021-CapeMayCounty-007 (Former CMC-10)	CR-621 Pacific Ave/Ocean Drive	1	1	1	1	1	1	0	-1	1	1	1	1	1	1	11	High
2021-CapeMayCounty-008 (Former CMC-11)	CR-606/Sunset Boulevard	1	1	0	1	0	0	0	-1	1	0	1	0	1	1	6	Medium
2021-CapeMayCounty-009 (Former CMC 12)	GSP Exit 4 Elevation	1	1	0	1	0	1	0	0	1	0	1	0	1	0	7	Medium
2021-CapeMayCounty-010 (Former CMC 14)	Glenwood Avenue (CR-614) Flood Mitigation	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High
2021-CapeMayCounty-011 (Former CMC 15)	GSP Exit 6 Flood Mitigation	1	1	0	1	0	1	0	0	1	0	1	0	1	0	7	Medium
2021-CapeMayCounty-012 (Former CMC 16)	Route 147 Elevation	1	1	0	1	0	0	0	-1	1	0	1	0	1	1	6	Medium





Table 9.1-12. 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-CapeMayCounty-013 (Former CMC 19)	Dennis Creek at Route 47 Flood Mitigation	1	1	0	1	0	1	0	-1	1	0	1	1	1	0	7	Medium
2021-CapeMayCounty-014 (Former CMC 21)	CR-640/Coast Guard Shoreline Protection	1	1	1	1	1	1	-1	-1	1	1	1	1	1	1	12	High
2021-CapeMayCounty-015 (Former CMC 22)	Wildwoods CR-621 Flood Mitigation.	1	1	0	1	0	1	0	-1	1	0	1	1	1	0	7	Medium
2021-CapeMayCounty-016 (Former CMC 24)	GSP Exit 13 Flood Mitigation	1	1	0	1	0	1	0	0	1	0	1	0	1	0	7	Medium
2021-CapeMayCounty-017 (Former CMC 25)	Avalon Boulevard (CR-601) Elevation	1	1	0	1	0	1	0	-1	1	0	1	1	1	0	7	Medium
2021-CapeMayCounty-018 (Former CMC 29)	Seven Mile Island CR-619 Stormwater Improvements	1	0	0	1	1	1	0	0	0	0	1	0	1	1	8	Medium
2021-CapeMayCounty-019 (Former CMC 31)	GSP Exit 25 Flood Mitigation	1	1	0	1	0	1	0	0	1	0	1	0	1	0	7	Medium
2021-CapeMayCounty-020 (Former CMC 32)	Ocean City CR-623 Elevation	1	1	0	1	0	1	0	-1	1	0	1	1	1	0	7	Medium
2021-CapeMayCounty-021 (Former CMC 33)	Cape May City Stormwater Pump Station Resilience	1	0	0	1	0	1	0	1	1	1	1	0	1	1	9	High
2021-CapeMayCounty-022 (Former CMC 37)	Ocean City CR-619/CR-656 Upgrades	0	0	0	1	0	1	0	1	1	1	1	0	1	1	8	Medium
2021-CapeMayCounty-	Bay Avenue (CR-659) Elevation	1	1	0	1	0	1	0	-1	1	0	1	1	1	0	7	Medium



Table 9.1-12. 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
023 (Former CMC 38)																	
2021-CapeMayCounty-024 (Former CMC 39)	Retrofit or replace county communications towers (Paris Grant Program towers) including those located on water towers, which are currently rated for winds less than Cat1 strength	1	1	1	1	0	1	0	0	1	1	1	1	1	0	10	High
2021-CapeMayCounty-025 (Former CMC 43)	Communication Tower Mitigation	1	1	1	1	0	1	0	1	0	1	1	1	1	1	11	High
2021-CapeMayCounty-026 (Former CMC 44)	Shunpike Road (CR620) Flood Mitigation	1	1	1	1	0	1	0	1	0	1	1	0	1	1	10	High
2021-CapeMayCounty-027 (Former CMC 45)	Fishing Creek/Academy Road (CR639) Flood Mitigation	1	1	1	1	0	1	0	1	0	1	1	1	1	1	11	High
2021-CapeMayCounty-028 (Former CMC 48)	Fidler Road (CR638) Drainage Mitigation	1	1	1	1	0	1	0	1	0	1	1	0	1	1	10	High
2021-CapeMayCounty-029 (Former CMC 50)	Shunpike Road (CR644) Flood Mitigation	1	1	1	1	0	1	0	1	0	1	1	0	1	1	10	High
2021-CapeMayCounty-030 (Former CMC 51)	Railroad Avenue (CR626) Flood Mitigation	1	1	1	1	0	1	0	1	0	1	1	0	1	1	10	High
2021-CapeMayCounty-031 (Former CMC 52)	Seashore Road (CR626) Flood Mitigation	1	1	1	1	0	1	0	1	0	1	1	0	1	1	10	High
2021-CapeMayCounty-032 (Former CMC 53)	Dias Creek Road (CR612) Flood Mitigation	1	1	1	1	0	1	0	1	0	1	1	0	1	1	10	High
2021-CapeMayCounty-	Goshen-Swainton Road (CR646) Flood Mitigation	1	1	1	1	0	1	0	1	0	1	1	0	1	1	10	High





Table 9.1-12. 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
033 (Former CMC 55)																	
2021-CapeMayCounty-034 (Former CMC 58)	West Cape May Drainage Improvements	0	0	0	1	1	1	0	1	1	1	1	1	1	1	10	High
2021-CapeMayCounty-035 (Former CMC 60)	Ocean Drive (CR619) Shore Protection at Townsends Inlet	1	1	0	1	1	1	0	0	1	1	1	1	1	1	11	High
2021-CapeMayCounty-036 (Former CMC 62)	Ocean Drive (CR619) Flood Mitigation at Nummy Island	1	1	0	1	1	1	0	0	1	1	1	0	1	0	9	High
2021-CapeMayCounty-037 (Former CMC 63)	Goshen Road (CR615) Drainage Improvements	0	0	0	1	1	1	0	1	1	1	1	1	1	1	10	High
2021-CapeMayCounty-038 (Former CMC 66)	Capital Improvement Plan Development	1	1	1	1	0	0	0	1	1	1	1	0	1	0	9	High
2021-CapeMayCounty-039 (CMC-69)	Neighborhood Adaptation Planning	1	1	1	1	0	0	0	1	1	0	1	0	1	0	8	Medium
2021-CapeMayCounty-040 (Former CMC-71)	Cape May County Design Standards	0	0	0	1	1	1	1	1	1	0	1	0	1	0	8	Medium
2021-CapeMayCounty-041 (Former CMC-77)	34 <sup>th</sup> Street Stormwater Pump Station	0	0	0	1	0	1	0	1	1	1	1	0	1	1	8	Medium
2021-CapeMayCounty-042 (Former CMC-78)	Road Flooding Warning Signs	1	1	1	1	1	0	0	0	1	0	1	0	0	0	8	Medium
2021-CapeMayCounty-043 (Former CMC-79)	Strathmere Drainage Improvements	0	0	0	1	0	1	0	1	1	1	1	0	1	1	8	Medium



Table 9.1-12. 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-CapeMayCounty-044(Former CMC-80 )	Sea Isle City Drainage Improvements	0	0	0	1	0	1	0	1	1	1	1	0	1	1	8	Medium
2021-CapeMayCounty-045 (Former CMC-81)	Traffic Signal Outage Mitigation	1	1	1	1	1	0	0	0	1	0	1	0	0	0	8	Medium
2021-CapeMayCounty-046	CMCMUA – OCWTF Seawall	1	1	1	1	1	1	1	1	1	1	1	0	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 County and an action that the County would like to complete as soon as funding is received.



**Table 9.1-13. Analysis of Mitigation Actions by Hazard and Category**

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

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

**RED** high ranked hazard

**ORANGE** medium ranked hazard

**YELLOW** low ranked hazard





Action Worksheet			
<b>Project Name:</b>	Saltwater Mitigation Initiative		
<b>Project Number:</b>	2021-CapeMayCounty-001		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Drought		
<b>Description of the Problem:</b>	Cape May County has notable groundwater intrusion issues due to water withdrawals and the sensitivity of the underlying aquifer.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	The County MUA proposes to examine the feasibility of (and potentially implement) a groundwater recharge project that would entail County treatment plants pumping effluent into the aquifer to push out salt water and mitigate the cost and hazard of saltwater intrusion into the County's aquifer.		
<b>Is this project related to a Critical Facility or Lifeline?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
<b>Level of Protection:</b>	N/A	<b>Estimated Benefits (losses avoided):</b>	Reduced saltwater intrusion into County aquifers
<b>Useful Life:</b>	50 Years	<b>Goals Met:</b>	1, 5, 6
<b>Estimated Cost:</b>	High	<b>Mitigation Action Type:</b>	Natural Systems Protection
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	10 Years
<b>Estimated Time Required for Project Implementation:</b>	Long Term	<b>Potential Funding Sources:</b>	MUA funds; user fees
<b>Responsible Organization:</b>	Cape May County MUA; NJDEP; sewer operators	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvements Plan
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
	Water Reclamation	High	Does not displace intruded water
	Groundwater Recharge	High	Potential Ecological benefits
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>	Saltwater Mitigation Initiative	
<b>Project Number:</b>	2021-CapeMayCounty-001	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Continues supply of potable water
Property Protection	1	Protects county resources
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	0	Project requires funding support
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	0	Drought
Timeline	0	Long Term
Agency Champion	1	Cape May County MUA; NJDEP; sewer operators
Other Community Objectives	0	
<b>Total</b>	10	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	Public Health Capacity Building		
<b>Project Number:</b>	2021-CapeMayCounty-002		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Disease Outbreak		
<b>Description of the Problem:</b>	Cape May County's Health Department has faced significant challenges owing to COVID-19. Beginning in Fall 2020, the County's case rate climbed significantly upwards and is placing strain on the County's healthcare system. The County has identified a need to support mobilization as vaccines arrive.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Support the integration of Public Health response with Emergency Management and take advantage of emerging technologies to implement life-saving projects and mitigation strategies for Cape May County Residents. The County will support the acquisition of PPE and vaccine distribution equipment.		
<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>	N/A	<b>Estimated Benefits (losses avoided):</b>	Reduced infection of COVID-19.
<b>Useful Life:</b>	TBD	<b>Goals Met:</b>	1, 3, 4, 6
<b>Estimated Cost:</b>	Medium	<b>Mitigation Action Type:</b>	Education and Awareness Programs
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Immediate
<b>Estimated Time Required for Project Implementation:</b>	Short Term (DOF)	<b>Potential Funding Sources:</b>	CDC; CDBG; HMGP
<b>Responsible Organization:</b>	Cape May County Public Health; Cape May County Emergency Management	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Public Health Plan; Emergency Management Plan
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Current problem continues
	Municipal Coordination	N/A	Not enough capacity at municipal level
	County Pandemic Mitigation	N/A	Feasible
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>	Public Health Capacity Building	
<b>Project Number:</b>	2021-CapeMayCounty-002	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Enhanced protection from COVID-19 and diseases
Property Protection	1	
Cost-Effectiveness	1	Preventative treatment is typically less costly than treatment after infection
Technical	1	
Political	1	
Legal	1	
Fiscal	0	Project requires funding support
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	0	Disease Outbreak
Timeline	1	Short Term (DOF)
Agency Champion	1	Cape May County Public Health; Cape May County Emergency Management
Other Community Objectives	1	
<b>Total</b>	12	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	County Radio Acquisitions		
<b>Project Number:</b>	2021-CapeMayCounty-003		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	All hazards		
<b>Description of the Problem:</b>	Cape May County law enforcement agencies recently upgraded to P-25 compliant radios. However, County EMS and fire departments have seen patchwork acquisition of P-25 radios due to the high cost of new radios.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	The County proposes to purchase 700 MHz radios and systems for Departments. This will allow Departments with fewer financial resources the ability to more quickly integrate into the new P-25 system. Additionally, the County proposes to undertake infrastructure improvements necessary to support the radio implementation.		
<b>Is this project related to a Critical Facility or Lifeline?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
<b>Level of Protection:</b>	N/A	<b>Estimated Benefits (losses avoided):</b>	Enhanced inter-operability and communication
<b>Useful Life:</b>	10 years	<b>Goals Met:</b>	1, 3, 4, 6
<b>Estimated Cost:</b>	High	<b>Mitigation Action Type:</b>	Education and Awareness Programs
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Immediate
<b>Estimated Time Required for Project Implementation:</b>	Short term (DOF)	<b>Potential Funding Sources:</b>	AFG; HMGP; County Funds; fire company funds
<b>Responsible Organization:</b>	Cape May County Emergency Management	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Emergency Management Plan
Three Alternatives Considered (including No Action)			
<b>Alternatives:</b>	<b>Action</b>	<b>Estimated Cost</b>	<b>Evaluation</b>
	No Action	\$0	Decreased operability
	New radio acquisition, no assistance	TBD	Enhanced operability with significant outlay
	New radio acquisition through grant	TBD	Enhanced operability with lessened outlay
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>	County Radio Acquisitions	
<b>Project Number:</b>	2021-CapeMayCounty-003	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Enhanced operability for first responders
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	Project will enhance technical capabilities
Political	1	
Legal	1	
Fiscal	0	Project requires funding support
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	All Hazards
Timeline	1	Short term (DOF)
Agency Champion	1	Cape May County Emergency Management
Other Community Objectives	1	
<b>Total</b>	13	
<b>Priority (High/Med/Low)</b>	High	





Action Worksheet			
<b>Project Name:</b>	Townsend's Inlet Seawall Mitigation		
<b>Project Number:</b>	2021-CapeMayCounty-004		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise; Erosion		
<b>Description of the Problem:</b>	Ocean Drive (CR-619) crossing Townsend's Inlet and connecting Sea Isle City and Avalon is vulnerable to coastal erosion. The road is vulnerable to overtopping and waves crash over the existing seawall.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	In conjunction with the Army Corps, the County proposes to extend the pilecap on the seawall at Townsend's Inlet and elevate it 18 inches to minimize overwash.		
<b>Is this project related to a Critical Facility or Lifeline?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
<b>Level of Protection:</b>	N/A	<b>Estimated Benefits (losses avoided):</b>	Reduce overtopping from waves; prevent car damage; maintain use of roadway
<b>Useful Life:</b>	30 years	<b>Goals Met:</b>	1, 5, 6
<b>Estimated Cost:</b>	\$1 million	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	Medium	<b>Desired Timeframe for Implementation:</b>	5 Years
<b>Estimated Time Required for Project Implementation:</b>	Long-term	<b>Potential Funding Sources:</b>	US Army Corps; County Funds
<b>Responsible Organization:</b>	US Army Corps of Engineers (lead); Cape May County Public Works/County Engineer	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvement Plan
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
	Road floodproofing	High	Cost prohibitive
	Extend pilecap/elevation	\$1M	Mitigated overwash risk
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>	Townsend's Inlet Seawall Mitigation	
<b>Project Number:</b>	2021-CapeMayCounty-004	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	Project will protect roadway
Cost-Effectiveness	0	
Technical	1	
Political	1	
Legal	1	
Fiscal	0	Project requires funding support
Environmental	-1	Potential adverse impacts
Social	0	
Administrative	0	
Multi-Hazard	1	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise; Erosion
Timeline	1	Long-term
Agency Champion	1	US Army Corps of Engineers (lead); Cape May County Public Works/County Engineer
Other Community Objectives	0	
<b>Total</b>	7	
<b>Priority (High/Med/Low)</b>	Medium	



Action Worksheet			
<b>Project Name:</b>	CR-604/Beach Ave Flood Protection		
<b>Project Number:</b>	2021-CapeMayCounty-005		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise; Coastal Erosion		
<b>Description of the Problem:</b>	The existing timber groin on Beach Ave (CR-604) in Cape May is deteriorated and needs to be replaced from Wilmington Avenue south.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Replace the existing timber groin with a hardened structure that extends the existing promenade and offers an enhanced level of protection from storm surge and flooding events.		
<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>	Life safety- Reduced risk of overtopping and inundation from Atlantic Ocean
<b>Useful Life:</b>	40 years	<b>Goals Met:</b>	1, 5, 6
<b>Estimated Cost:</b>	High	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	5 years
<b>Estimated Time Required for Project Implementation:</b>	Short-term	<b>Potential Funding Sources:</b>	US Army Corps of Engineers; FEMA-FMA; County funds; City funds
<b>Responsible Organization:</b>	US Army Corps of Engineers; Cape May County Public Works/County Engineer; NJDEP; Cape May City	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Cape May County Seawall Flood Mitigation Plan; Master Plan
Three Alternatives Considered (including No Action)			
<b>Alternatives:</b>	<b>Action</b>	<b>Estimated Cost</b>	<b>Evaluation</b>
	No Action	\$0	Flooding vulnerability remains
	Replaced with green infrastructure/timber	High	Structure may not protect landward properties
	Sewall extension	High	Vulnerability mitigated
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>	CR-604/Beach Ave Flood Protection	
<b>Project Number:</b>	2021-CapeMayCounty-005	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	Groin will protect landward properties
Cost-Effectiveness	1	
Technical	1	Project is technically feasible
Political	1	
Legal	1	
Fiscal	0	Project requires funding support
Environmental	-1	Potential adverse environmental impacts
Social	1	
Administrative	1	
Multi-Hazard	1	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise; Coastal Erosion
Timeline	1	Short-term
Agency Champion	1	US Army Corps of Engineers; Cape May County Public Works/County Engineer; NJDEP; Cape May City
Other Community Objectives	1	Project aligns with City goals
<b>Total</b>	11	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	CR-604/Beach Ave Drainage Improvements		
<b>Project Number:</b>	2021-CapeMayCounty-006		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise; Coastal Erosion		
<b>Description of the Problem:</b>	Beach Ave (CR-604) discharges stormwater runoff through outfalls to the Ocean. These outfalls fill with sand due to littoral drift, causing clogs and water backup that causes flooding and requires frequent maintenance.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	The County proposes to redirect flow of stormwater through the use of pumping stations so that stormwater does not discharge into the Ocean and is routed towards a more resilient location.		
<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>	N/A	<b>Estimated Benefits (losses avoided):</b>	Reduced flooding and maintenance costs
<b>Useful Life:</b>	25 years	<b>Goals Met:</b>	1, 5, 6
<b>Estimated Cost:</b>	TBD	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	Medium	<b>Desired Timeframe for Implementation:</b>	5 Years
<b>Estimated Time Required for Project Implementation:</b>	Long-term	<b>Potential Funding Sources:</b>	US Army Corps of Engineers; FEMA-FMA; County funds; City funds
<b>Responsible Organization:</b>	US Army Corps of Engineers; Cape May County Public Works/County Engineer; NJDEP; Cape May City	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvement Plan, Master Plan
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Current problem continues
	Outfall extension	Medium	Permitting issues; sand backup not mitigated
	Pump Station	TBD	Changes to infrastructure facilitate drainage
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>	CR-604/Beach Ave Drainage Improvements	
<b>Project Number:</b>	2021-CapeMayCounty-006	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protects evacuation route
Property Protection	0	
Cost-Effectiveness	0	
Technical	1	Project is technically feasible
Political	1	Project is politically feasible
Legal	1	
Fiscal	0	Project requires funding support
Environmental	0	
Social	0	
Administrative	0	
Multi-Hazard	1	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise; Coastal Erosion
Timeline	0	Long-term
Agency Champion	1	US Army Corps of Engineers; Cape May County Public Works/County Engineer; NJDEP; Cape May City
Other Community Objectives	1	Aligns with City initiatives
<b>Total</b>	8	
<b>Priority (High/Med/Low)</b>	Medium	





Action Worksheet			
<b>Project Name:</b>	CR-621 Pacific Ave/Ocean Drive		
<b>Project Number:</b>	2021-CapeMayCounty-007 (Former CMC-10)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise		
<b>Description of the Problem:</b>	CR-621 is a designated County evacuation route for the Wildwoods, including Diamond Beach in Lower Township. The Route traverses a low-lying stretch of marsh that is vulnerable to tidal and nuisance flooding. Additionally, the Route is served by several bridges that are beyond their useful lives.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Replace three (3) bridges and elevate 2.7 miles of County Route 621 in Lower Township. The projects are currently in the concept development stage and have been submitted to NJDOT for preliminary engineering.		
<b>Is this project related to a Critical Facility or Lifeline?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
<b>Level of Protection:</b>	100-year	<b>Estimated Benefits (losses avoided):</b>	High
<b>Useful Life:</b>	70 years	<b>Goals Met:</b>	1, 3, 4, 6
<b>Estimated Cost:</b>	Medium-High	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	5 Years
<b>Estimated Time Required for Project Implementation:</b>	Ongoing – this has been completed on some projects	<b>Potential Funding Sources:</b>	County Funds; NJDOT; BRIC
<b>Responsible Organization:</b>	County Engineering	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvement Plan
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Current problem continues
	Bridge/Road Removal	Low	Decreased access
	Elevation/Reconstruction	High	Continued access
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>	CR-621 Pacific Ave/Ocean Drive	
<b>Project Number:</b>	2021-CapeMayCounty-007 (Former CMC-10)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	Protects County infrastructure
Cost-Effectiveness	1	
Technical	1	
Political	1	Political support exists
Legal	1	
Fiscal	0	Project requires funding support
Environmental	-1	Potential environmental impacts
Social	1	
Administrative	1	
Multi-Hazard	1	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise
Timeline	1	Ongoing – this has been completed on some projects
Agency Champion	1	County Engineering
Other Community Objectives	1	
<b>Total</b>	11	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	CR-606/Sunset Boulevard		
<b>Project Number:</b>	2021-CapeMayCounty-008 (Former CMC-11)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise		
<b>Description of the Problem:</b>	Sunset Boulevard (CR-606) is a county road connecting Cape May Point and Cape May Point State Park to West Cape May, Cape May, and evacuation routes to the north. The road is low-lying and has portions that can flood with water levels as little as one foot above high tide.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Elevate ~1.5 miles of CR-606 (Sunset Boulevard) through the South Cape May Meadows (Lower and WCM). Preliminary work has been completed for drainage and the project is in concept design.		
<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>	Medium
<b>Useful Life:</b>	20 years	<b>Goals Met:</b>	1, 3, 4
<b>Estimated Cost:</b>	High	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	Low	<b>Desired Timeframe for Implementation:</b>	Within 10 years
<b>Estimated Time Required for Project Implementation:</b>	Long Term DOF (lower priority project – area is not as floodprone as many other areas)	<b>Potential Funding Sources:</b>	County Funds; NJDOT; BRIC
<b>Responsible Organization:</b>	County Engineering	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvement Plan
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
	Road Closure	Low	No access to Cape May Point
	Elevation	High	Enhanced resiliency
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>	CR-606/Sunset Boulevard	
<b>Project Number:</b>	2021-CapeMayCounty-008 (Former CMC-11)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
<b>Life Safety</b>	1	Supports primary evacuation route for West Cape May/Cape May Point/Lower Township
<b>Property Protection</b>	1	Protects County infrastructure
<b>Cost-Effectiveness</b>	0	
<b>Technical</b>	1	Project is technically feasible
<b>Political</b>	0	
<b>Legal</b>	0	
<b>Fiscal</b>	0	Project requires funding support
<b>Environmental</b>	-1	Potential environmental impacts
<b>Social</b>	1	Prevents social disruption
<b>Administrative</b>	0	
<b>Multi-Hazard</b>	1	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise
<b>Timeline</b>	0	Long Term DOF (lower priority project – area is not as floodprone as many other areas)
<b>Agency Champion</b>	1	County Engineering
<b>Other Community Objectives</b>	1	Supports municipal objectives
<b>Total</b>	6	
<b>Priority (High/Med/Low)</b>	Medium	



Action Worksheet			
<b>Project Name:</b>	GSP Exit 4 Elevation		
<b>Project Number:</b>	2021-CapeMayCounty-009 (Former CMC 12)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise		
<b>Description of the Problem:</b>	Exit 4 of the Garden State Parkway is a major access point for the Wildwoods and Lower/Middle Townships. The eastern section of the intersection is in the Special Flood Hazard Area and is vulnerable to flooding at tide levels that are four feet above normal high tide.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Intersection of State Route 47 and the Garden State Parkway (Middle Township) – Elevate Route 47 roadway and ramps, which will require elevation of the Parkway bridge overpass.		
<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>	Medium
<b>Useful Life:</b>	50 years	<b>Goals Met:</b>	1, 3, 4
<b>Estimated Cost:</b>	High	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	Medium	<b>Desired Timeframe for Implementation:</b>	Long-term
<b>Estimated Time Required for Project Implementation:</b>	Long Term (not currently under active consideration by State)	<b>Potential Funding Sources:</b>	Transportation Trust Fund; NJTA Capital Funds
<b>Responsible Organization:</b>	NJDOT and NJ Turnpike Authority	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvements Plan; Parkway Capital Improvements Plan
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Current problem continues
	Relocation of exit	High	No land available
	Exit elevation	High	Continued use of road
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>	GSP Exit 4 Elevation	
<b>Project Number:</b>	2021-CapeMayCounty-009 (Former CMC 12)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Supports evacuation
Property Protection	1	Enhances GSP property
Cost-Effectiveness	0	
Technical	1	Project is technically feasible
Political	0	Requires coordination
Legal	1	Project is legally feasible
Fiscal	0	Project requires funding support
Environmental	0	Potential for environmental impacts
Social	1	Mitigates social disruption
Administrative	0	
Multi-Hazard	1	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise
Timeline	0	Long Term (not currently under active consideration by State)
Agency Champion	1	NJDOT and NJ Turnpike Authority
Other Community Objectives	0	
<b>Total</b>	7	
<b>Priority (High/Med/Low)</b>	Medium	





Action Worksheet			
<b>Project Name:</b>	Glenwood Avenue (CR-614) Flood Mitigation		
<b>Project Number:</b>	2021-CapeMayCounty-010 (Former CMC 14)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise		
<b>Description of the Problem:</b>	CR-614 is a highly-flood vulnerable roadway located in West Wildwood. Much of the roadway begins to flood when tide levels exceed one foot above normal high tide. The road provides the only ingress and egress to/from West Wildwood.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Address flooding on Glenwood Avenue (CR-614) through West Wildwood through road elevation.		
<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>	Base flood elevation	<b>Estimated Benefits (losses avoided):</b>	High
<b>Useful Life:</b>	20 years	<b>Goals Met:</b>	1, 3, 4
<b>Estimated Cost:</b>	High	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	Medium	<b>Desired Timeframe for Implementation:</b>	Within 10 years
<b>Estimated Time Required for Project Implementation:</b>	Long Term DOF	<b>Potential Funding Sources:</b>	County funds; NJDOT; BRIC
<b>Responsible Organization:</b>	County Engineering and municipality	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvement Plan
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
	Re-routed road	High	No available land
	Road elevation	High	Evacuation for West Wildwood
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>	Glenwood Avenue (CR-614) Flood Mitigation	
<b>Project Number:</b>	2021-CapeMayCounty-010 (Former CMC 14)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protects evacuation route
Property Protection	1	Protects County infrastructure
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	1	Project requires funding support
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise
Timeline	1	Long Term DOF
Agency Champion	1	County Engineering and municipality
Other Community Objectives	1	
<b>Total</b>	14	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	GSP Exit 6 Flood Mitigation		
<b>Project Number:</b>	2021-CapeMayCounty-011 (Former CMC 15)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise		
<b>Description of the Problem:</b>	Though the Exit 6 interchange is on relatively high ground, in the future sea level rise will cause the interchange to be located in the Special Flood Hazard Area and be impacted by flood events.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Intersection of State Route 147 and the Garden State Parkway (Middle Township) – Elevate Route 147 roadway and ramps, which will require elevation of the Parkway bridge overpass.		
<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>	Base flood elevation	<b>Estimated Benefits (losses avoided):</b>	High
<b>Useful Life:</b>	70 years	<b>Goals Met:</b>	1, 3, 4
<b>Estimated Cost:</b>	High	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	Medium	<b>Desired Timeframe for Implementation:</b>	Within 20 years
<b>Estimated Time Required for Project Implementation:</b>	Long Term DOF	<b>Potential Funding Sources:</b>	Transportation Trust Fund; NJTA Capital Funds
<b>Responsible Organization:</b>	State DOT and NJ Turnpike Authority	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvements Plan, Parkway Capital Improvements Plan
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
	Relocate Interchange	High	No available land
	Elevation of interchange	High	Continued access
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>	GSP Exit 6 Flood Mitigation	
<b>Project Number:</b>	2021-CapeMayCounty-011 (Former CMC 15)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Supports evacuation
Property Protection	1	Enhances GSP property
Cost-Effectiveness	0	
Technical	1	Project is technically feasible
Political	0	Requires coordination
Legal	1	Project is legally feasible
Fiscal	0	Project requires funding support
Environmental	0	Potential for environmental impacts
Social	1	Mitigates social disruption
Administrative	0	
Multi-Hazard	1	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise
Timeline	0	Long Term (not currently under active consideration by State)
Agency Champion	1	NJDOT and NJ Turnpike Authority
Other Community Objectives	0	
<b>Total</b>	7	
<b>Priority (High/Med/Low)</b>	Medium	



Action Worksheet			
<b>Project Name:</b>	Route 147 Elevation		
<b>Project Number:</b>	2021-CapeMayCounty-012 (Former CMC 16)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise		
<b>Description of the Problem:</b>	Route 147 is on generally higher land, however, upon entering North Wildwood the roadbed elevation decreases. Flooding impacts to the roadway begin at tide levels that are one foot above typical high tides.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Elevate tie-in section of State Route 147 into North Wildwood		
<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>	Base flood elevation	<b>Estimated Benefits (losses avoided):</b>	High
<b>Useful Life:</b>	20 years	<b>Goals Met:</b>	1, 3, 4
<b>Estimated Cost:</b>	High	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	Medium	<b>Desired Timeframe for Implementation:</b>	Within 10 years
<b>Estimated Time Required for Project Implementation:</b>	Long Term DOF	<b>Potential Funding Sources:</b>	Transportation Trust Fund; NJDOT
<b>Responsible Organization:</b>	State DOT and municipality	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvements Plan
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
	Realign Roadway	High	No available land
	Route 147 Elevation	High	Continued access
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>	Route 147 Elevation	
<b>Project Number:</b>	2021-CapeMayCounty-012 (Former CMC 16)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protects evacuation route
Property Protection	1	Protects State property
Cost-Effectiveness	0	
Technical	1	Project is technically feasible
Political	0	
Legal	0	Project is legally feasible
Fiscal	0	Project requires funding support
Environmental	-1	Potential for environmental impacts
Social	1	
Administrative	0	
Multi-Hazard	1	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise
Timeline	0	Long Term DOF
Agency Champion	1	State DOT and municipality
Other Community Objectives	1	Protects Wildwoods evacuation route
<b>Total</b>	6	
<b>Priority (High/Med/Low)</b>	Medium	





Action Worksheet			
<b>Project Name:</b>	Dennis Creek at Route 47 Flood Mitigation		
<b>Project Number:</b>	2021-CapeMayCounty-014 (Former CMC 19)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Hurricane & Tropical Storm, Flooding, Severe Weather		
<b>Description of the Problem:</b>	An undersized retention basin results in flooding in the intersection.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Rectify cause of flooding at the intersection of State Route 47 and the newly completed bridge over Dennis Creek. A channel was recently cut into the meadows to alleviate the flooding, but the issue is not fully addressed.		
<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>	N/A	<b>Estimated Benefits (losses avoided):</b>	High
<b>Useful Life:</b>	50 years	<b>Goals Met:</b>	1, 3, 6
<b>Estimated Cost:</b>	Medium	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	Medium	<b>Desired Timeframe for Implementation:</b>	Within five years
<b>Estimated Time Required for Project Implementation:</b>	In progress	<b>Potential Funding Sources:</b>	NJDOT, Municipal, and HMA grants where applicable
<b>Responsible Organization:</b>	State DOT	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvements Plan
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
	Road elevation	High	Infeasible
	Retention Pond resizing	Medium	Feasible
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>	Dennis Creek at Route 47 Flood Mitigation	
<b>Project Number:</b>	2021-CapeMayCounty-014 (Former CMC 19)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protects evacuation route
Property Protection	1	Protects State property
Cost-Effectiveness	0	
Technical	1	Technically feasible
Political	0	
Legal	1	
Fiscal	0	Project requires funding support
Environmental	-1	Potential for environmental impacts
Social	1	Project mitigates social disruption
Administrative	0	
Multi-Hazard	1	Hurricane & Tropical Storm, Flooding, Severe Weather
Timeline	1	In progress
Agency Champion	1	State DOT
Other Community Objectives	0	
<b>Total</b>	7	
<b>Priority (High/Med/Low)</b>	Medium	



Action Worksheet			
<b>Project Name:</b>	CR-640/Coast Guard Shoreline Protection		
<b>Project Number:</b>	2021-CapeMayCounty-014 (Former CMC 21)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise; Coastal Erosion		
<b>Description of the Problem:</b>	Delaware Avenue/CR-640 connects the US Coast Guard Training Center to Cape May and evacuation routes to the north. Delaware Avenue is protected from Cape May Harbor by a rip-rap system that is subject to erosion and provides inconsistent protection.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Install shoreline protection for CR-640 (entrance to Coast Guard Base) along the Cape May Harbor in the City of Cape May.		
<b>Is this project related to a Critical Facility or Lifeline?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
<b>Level of Protection:</b>	Base flood elevation	<b>Estimated Benefits (losses avoided):</b>	High
<b>Useful Life:</b>	50 years	<b>Goals Met:</b>	1, 3, 5
<b>Estimated Cost:</b>	High	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Within five years
<b>Estimated Time Required for Project Implementation:</b>	In progress	<b>Potential Funding Sources:</b>	US Army Corps of Engineers; BRIC; USCG
<b>Responsible Organization:</b>	County Engineering and USACE	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvement Plan
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
	Road Abandonment	Low	No access to Sewell Point/USCG
	Shore protection	High	Continued protection
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>	CR-640/Coast Guard Shoreline Protection	
<b>Project Number:</b>	2021-CapeMayCounty-014 (Former CMC 21)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protects inhabitants of landward properties
Property Protection	1	Protects landward properties
Cost-Effectiveness	1	
Technical	1	Project is technically feasible
Political	1	
Legal	1	
Fiscal	-1	
Environmental	-1	May cause adverse impacts
Social	1	
Administrative	1	
Multi-Hazard	1	Project will address multiple hazards
Timeline	1	
Agency Champion	1	
Other Community Objectives	1	Protects Coast Guard base
<b>Total</b>	12	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	Wildwoods CR-621 Flood Mitigation		
<b>Project Number:</b>	2021-CapeMayCounty-015 (Former CMC 22)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Hurricane & Tropical Storm, Flooding, Severe Weather		
<b>Description of the Problem:</b>	Pacific Avenue is a low-lying major roadway in Wildwood Crest that is vulnerable to nuisance flooding. The corridor is being slated for a revitalization and upgrade of which drainage improvements will be a part.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Upgrade stormwater drainage system along CR-621 and arterials in the Wildwoods.		
<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>	N/A	<b>Estimated Benefits (losses avoided):</b>	High
<b>Useful Life:</b>	30 years	<b>Goals Met:</b>	1, 3, 6
<b>Estimated Cost:</b>	High	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	Medium	<b>Desired Timeframe for Implementation:</b>	Within three years
<b>Estimated Time Required for Project Implementation:</b>	Long Term DOF	<b>Potential Funding Sources:</b>	County Funds; NJDOT
<b>Responsible Organization:</b>	County Engineering, Municipalities, and USACE	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvements Plan; Local Redevelopment Plan
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
	Road elevation	High	Cost prohibitive
	Stormwater Drainage upgrades	High	Less costly
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>	Wildwoods CR-621 Flood Mitigation	
<b>Project Number:</b>	2021-CapeMayCounty-015 (Former CMC 22)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protects evacuation route
Property Protection	1	Protects State property
Cost-Effectiveness	0	
Technical	1	Technically feasible
Political	0	
Legal	1	
Fiscal	0	Project requires funding support
Environmental	-1	Potential for environmental impacts
Social	1	Project mitigates social disruption
Administrative	0	
Multi-Hazard	1	Hurricane & Tropical Storm, Flooding, Severe Weather
Timeline	1	In progress
Agency Champion	1	County Engineering
Other Community Objectives	0	
<b>Total</b>	7	
<b>Priority (High/Med/Low)</b>	Medium	





Action Worksheet			
<b>Project Name:</b>	GSP Exit 13 Flood Mitigation		
<b>Project Number:</b>	2021-CapeMayCounty-016 (Former CMC 24)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise		
<b>Description of the Problem:</b>	The intersection of Avalon Boulevard and the Parkway (Exit 13) is entirely within the Special Flood Hazard Area. This is a vulnerability for evacuation for both travelers coming from Seven Mile Island as well as the mainland.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Intersection of Avalon Boulevard and the Garden State Parkway (Middle Township) – Elevate Avalon Boulevard roadway and ramps, which will first require elevation of the Parkway bridge overpass.		
<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>	Base Flood Elevation	<b>Estimated Benefits (losses avoided):</b>	High
<b>Useful Life:</b>	50 years	<b>Goals Met:</b>	1, 3, 4
<b>Estimated Cost:</b>	High	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	Medium	<b>Desired Timeframe for Implementation:</b>	Within 10 years
<b>Estimated Time Required for Project Implementation:</b>	Long Term DOF	<b>Potential Funding Sources:</b>	Transportation Trust Fund; NJTA Capital Funds
<b>Responsible Organization:</b>	County Engineering with NJTA	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvements Plan; Parkway CIP
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
	Relocate interchange	High	No available land
	Interchange Elevation	High	Continued use of highway
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>	GSP Exit 13 Flood Mitigation	
<b>Project Number:</b>	2021-CapeMayCounty-016 (Former CMC 24)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Supports evacuation
Property Protection	1	Enhances GSP property
Cost-Effectiveness	0	
Technical	1	Project is technically feasible
Political	0	Requires coordination
Legal	1	Project is legally feasible
Fiscal	0	Project requires funding support
Environmental	0	Potential for environmental impacts
Social	1	Mitigates social disruption
Administrative	0	
Multi-Hazard	1	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise
Timeline	0	Long Term (not currently under active consideration by State)
Agency Champion	1	NJDOT and NJ Turnpike Authority
Other Community Objectives	0	
<b>Total</b>	7	
<b>Priority (High/Med/Low)</b>	Medium	



Action Worksheet			
<b>Project Name:</b>	Avalon Boulevard (CR-601) Elevation		
<b>Project Number:</b>	2021-CapeMayCounty-017c (Former CMC 25)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Hurricane & Tropical Storm, Flooding, Severe Weather		
<b>Description of the Problem:</b>	Avalon Boulevard is entirely within the Special Flood Hazard Area between the Parkway and Seven Mile Island. As a major evacuation route, the road is vulnerable to flooding from surges three feet above high tide. The road carries more than 10,000 vehicles per day in the summertime.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Elevate Avalon Boulevard from Parkway into Avalon proper (~2.5 miles).		
<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>	Base flood elevation	<b>Estimated Benefits (losses avoided):</b>	High
<b>Useful Life:</b>	50 years	<b>Goals Met:</b>	1, 3, 4
<b>Estimated Cost:</b>	High	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	Medium	<b>Desired Timeframe for Implementation:</b>	Within 10 years
<b>Estimated Time Required for Project Implementation:</b>	Long Term DOF	<b>Potential Funding Sources:</b>	County Funds; NJDOT; FMA
<b>Responsible Organization:</b>	County Engineering	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvements Plan
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Current problem continues
	Bridge across marsh	High	Cost prohibitive
	Roadbed elevation	High	Feasible
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>	Avalon Boulevard (CR-601) Elevation	
<b>Project Number:</b>	2021-CapeMayCounty-017c (Former CMC 25)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protects evacuation route
Property Protection	1	Protects State property
Cost-Effectiveness	0	
Technical	1	Technically feasible
Political	0	
Legal	1	
Fiscal	0	Project requires funding support
Environmental	-1	Potential for environmental impacts
Social	1	Project mitigates social disruption
Administrative	0	
Multi-Hazard	1	Hurricane & Tropical Storm, Flooding, Severe Weather
Timeline	1	In progress
Agency Champion	1	County Engineering
Other Community Objectives	0	
<b>Total</b>	7	
<b>Priority (High/Med/Low)</b>	Medium	



Action Worksheet			
<b>Project Name:</b>	Seven Mile Island CR-619 Stormwater Improvements		
<b>Project Number:</b>	2021-CapeMayCounty-018 (Former CMC 29)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise		
<b>Description of the Problem:</b>	Ocean Drive/Third Avenue in Avalon and Stone Harbor is a major thoroughfare connecting the communities and is the longest and busiest roadway in Avalon and Stone Harbor that is most vulnerable to flooding. Flooding impacts begin with a flood event bringing water levels just one foot above high tide. The removal of outfalls is currently in the design phase.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Upgrade stormwater system on CR-619 through Stone Harbor and Avalon.		
<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>	N/A	<b>Estimated Benefits (losses avoided):</b>	High
<b>Useful Life:</b>	30 years	<b>Goals Met:</b>	1, 3, 4, 6
<b>Estimated Cost:</b>	High	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	Medium	<b>Desired Timeframe for Implementation:</b>	Within five years
<b>Estimated Time Required for Project Implementation:</b>	Long Term DOF	<b>Potential Funding Sources:</b>	FEMA HMA grant programs, local match
<b>Responsible Organization:</b>	County Engineering with municipalities	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvements Plan; Local floodplain management plans
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
	Road elevation	High	Not currently feasible
	Drainage Upgrades	High	Less disruptive than elevation
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>	Seven Mile Island CR-619 Stormwater Improvements	
<b>Project Number:</b>	2021-CapeMayCounty-018 (Former CMC 29)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protects evacuation route
Property Protection	0	
Cost-Effectiveness	0	
Technical	1	Project is technically feasible
Political	1	Project is politically feasible
Legal	1	
Fiscal	0	Project requires funding support
Environmental	0	
Social	0	
Administrative	0	
Multi-Hazard	1	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise
Timeline	0	Long-term
Agency Champion	1	County Engineering
Other Community Objectives	1	Aligns with Borough initiatives
<b>Total</b>	8	
<b>Priority (High/Med/Low)</b>	Medium	



Action Worksheet			
<b>Project Name:</b>	GSP Exit 25 Flood Mitigation		
<b>Project Number:</b>	2021-CapeMayCounty-020 (Former CMC 31)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise		
<b>Description of the Problem:</b>	The intersection of Roosevelt Boulevard (CR-623) and the Garden State Parkway sees nearly 20,000 vehicles on average each day. The intersection is located in the Special Flood Hazard Area and begins seeing flooding impacts when water levels are at least three feet above high tide. Flooding in this intersection is a major vulnerability to a major evacuation route for Ocean City.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Intersection of Roosevelt Boulevard (CR-623) and the Garden State Parkway (Upper Township) – Roosevelt Boulevard Elevate roadway and ramps, which will first require elevation of the Parkway bridge overpass.		
<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>	Base flood elevation	<b>Estimated Benefits (losses avoided):</b>	High
<b>Useful Life:</b>	60 years	<b>Goals Met:</b>	1, 3, 4
<b>Estimated Cost:</b>	High	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	Medium	<b>Desired Timeframe for Implementation:</b>	Within 10 years
<b>Estimated Time Required for Project Implementation:</b>	Long Term DOF	<b>Potential Funding Sources:</b>	Transportation Trust Fund; NJTA Capital Funds
<b>Responsible Organization:</b>	County Engineering and NJ Turnpike Authority	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvements Plan; SJTPO
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
	Interchange Relocation	High	Cost prohibitive
	Interchange elevation	High	Feasible
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>	GSP Exit 25 Flood Mitigation	
<b>Project Number:</b>	2021-CapeMayCounty-020 (Former CMC 31)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Supports evacuation
Property Protection	1	Enhances GSP property
Cost-Effectiveness	0	
Technical	1	Project is technically feasible
Political	0	Requires coordination
Legal	1	Project is legally feasible
Fiscal	0	Project requires funding support
Environmental	0	Potential for environmental impacts
Social	1	Mitigates social disruption
Administrative	0	
Multi-Hazard	1	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise
Timeline	0	Long Term (not currently under active consideration by State)
Agency Champion	1	NJDOT and NJ Turnpike Authority
Other Community Objectives	0	
<b>Total</b>	7	
<b>Priority (High/Med/Low)</b>	Medium	



Action Worksheet			
<b>Project Name:</b>	Ocean City CR-623 Elevation		
<b>Project Number:</b>	2021-CapeMayCounty-020 (Former CMC 32)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise		
<b>Description of the Problem:</b>	Roosevelt Boulevard (CR-623) is a major access road and evacuation route between Ocean City and the mainland. The road sees average daily traffic of between 10,000 and 25,000 vehicles depending on the season. The Boulevard sees flooding beginning at water levels that are two feet above high tide.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Elevate Roosevelt Boulevard (CR-623) from the Parkway into Ocean City proper.		
<b>Is this project related to a Critical Facility or Lifeline?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
<b>Level of Protection:</b>	Base flood elevation	<b>Estimated Benefits (losses avoided):</b>	High
<b>Useful Life:</b>	40 years	<b>Goals Met:</b>	1, 3, 4
<b>Estimated Cost:</b>	High	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	Medium	<b>Desired Timeframe for Implementation:</b>	Within 10 years
<b>Estimated Time Required for Project Implementation:</b>	Long Term DOF	<b>Potential Funding Sources:</b>	HMA grants with local match
<b>Responsible Organization:</b>	County Engineering	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvements Plan
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
	Bridge	High	Environmentally prohibitive/costly
	Roadbed elevation	High	Feasible
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 City CR-623 Elevation	
<b>Project Number:</b>	2021-CapeMayCounty-020 (Former CMC 32)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protects evacuation route
Property Protection	1	Protects State property
Cost-Effectiveness	0	
Technical	1	Technically feasible
Political	0	
Legal	1	
Fiscal	0	Project requires funding support
Environmental	-1	Potential for environmental impacts
Social	1	Project mitigates social disruption
Administrative	0	
Multi-Hazard	1	Hurricane & Tropical Storm, Flooding, Severe Weather
Timeline	1	In progress
Agency Champion	1	County Engineering
Other Community Objectives	0	
<b>Total</b>	7	
<b>Priority (High/Med/Low)</b>	Medium	



Action Worksheet			
<b>Project Name:</b>	Cape May City Stormwater Pump Station Resilience		
<b>Project Number:</b>	2021-CapeMayCounty-021 (Former CMC 33)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise		
<b>Description of the Problem:</b>	Cape May is vulnerable to nuisance and stormwater flooding due to low-lying land elevations near Cape Island Creek and Frog Hollow. The City has installed stormwater pump stations to mitigate the flood risk. However, if the pumps fail due to severe storms, the stormwater pumps will not be able to function.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Install backup power to two stormwater pump stations at Madison Avenue and Grant Avenue in Cape May City. Work with the City to properly site the generator, which could be co-managed with the City to provide backup power for their station on Queen Street and Benton Avenue.		
<b>Is this project related to a Critical Facility or Lifeline?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
<b>Level of Protection:</b>	500 Year	<b>Estimated Benefits (losses avoided):</b>	High
<b>Useful Life:</b>	30 Years	<b>Goals Met:</b>	1, 3, 4, 6
<b>Estimated Cost:</b>	Medium (not high \$ cost)	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Within five years
<b>Estimated Time Required for Project Implementation:</b>	Long Term DOF	<b>Potential Funding Sources:</b>	HMA grants with local match
<b>Responsible Organization:</b>	County Engineering and Municipality	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvements Plan/Local Plans
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Current problem continues
	Microgrid	High	Too costly
	Backup generator	Medium	Feasible
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>	Cape May City Stormwater Pump Station Resilience	
<b>Project Number:</b>	2021-CapeMayCounty-021 (Former CMC 33)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	0	
Technical	1	
Political	0	
Legal	1	
Fiscal	0	Project requires funding support
Environmental	1	Enhances drainage
Social	1	Mitigates disruption due to lack of road service
Administrative	1	
Multi-Hazard	1	Severe Storm; Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise
Timeline	0	Long Term DOF
Agency Champion	1	Cape May County Public Works/County Engineer; Cape May
Other Community Objectives	1	Supports city initiatives
<b>Total</b>	8	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	Ocean City CR-619/CR-656 Upgrades		
<b>Project Number:</b>	2021-CapeMayCounty-022 (Former CMC 37)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Hurricane & Tropical Storm, Flooding, Severe Weather		
<b>Description of the Problem:</b>	County routes in Ocean City (including West Avenue and Bay Avenue) are low-lying and vulnerable to flooding. Ocean City has undertaken upgrades to some low-lying areas to address stormwater flooding, though these projects require integration.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Upgrade storm drainage in Ocean City to meet the current 25-year design storm, inclusive of larger drainage		
<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>	25-year event	<b>Estimated Benefits (losses avoided):</b>	High
<b>Useful Life:</b>	30 years	<b>Goals Met:</b>	1, 3, 5, 6
<b>Estimated Cost:</b>	High	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	Medium	<b>Desired Timeframe for Implementation:</b>	Within five years
<b>Estimated Time Required for Project Implementation:</b>	In Progress	<b>Potential Funding Sources:</b>	City; County Funds; HMA Grant
<b>Responsible Organization:</b>	County Engineering with municipal support	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvements Plan
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
	Retention ponds	High	No available real estate
	Drainage upgrade	High	Feasible
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 City CR-619/CR-656 Upgrades	
<b>Project Number:</b>	2021-CapeMayCounty-022 (Former CMC 37)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	0	
Cost-Effectiveness	0	
Technical	1	
Political	0	
Legal	1	
Fiscal	0	Project requires funding support
Environmental	1	Enhances drainage
Social	1	Mitigates disruption due to lack of road service
Administrative	1	
Multi-Hazard	1	Severe Storm; Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise
Timeline	0	Long Term DOF
Agency Champion	1	Cape May County Public Works/County Engineer; City of Ocean City
Other Community Objectives	1	Supports city initiatives
<b>Total</b>	8	
<b>Priority (High/Med/Low)</b>	Medium	





Action Worksheet			
<b>Project Name:</b>	Bay Avenue (CR-659) Elevation		
<b>Project Number:</b>	2021-CapeMayCounty-023 (Former CMC 38)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise		
<b>Description of the Problem:</b>	Bay Avenue is a low-lying thoroughfare and County route in Ocean City. Various sections of the roadway are particularly low-lying and vulnerable to flooding at tidal levels in excess of one foot above high tide.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Elevate Bay Avenue (CR-659) to a congruent height (at least 3 ft NAVD88) in floodprone areas (33rd to 28th, 20th to 18th, 9th to 2nd)		
<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>	Base Flood Elevation	<b>Estimated Benefits (losses avoided):</b>	High
<b>Useful Life:</b>	30 years	<b>Goals Met:</b>	1, 3, 4
<b>Estimated Cost:</b>	High	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	Medium	<b>Desired Timeframe for Implementation:</b>	Within 5 years
<b>Estimated Time Required for Project Implementation:</b>	Long Term DOF	<b>Potential Funding Sources:</b>	HMA and federal programs with local match
<b>Responsible Organization:</b>	County Engineering with municipal support	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvements Plan; Local drainage plans
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
	Improved drainage	High	Does not fully mitigate hazards
	Elevation	High	
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>	Bay Avenue (CR-659) Elevation	
<b>Project Number:</b>	2021-CapeMayCounty-023 (Former CMC 38)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protects evacuation route
Property Protection	1	Protects State property
Cost-Effectiveness	0	
Technical	1	Technically feasible
Political	0	
Legal	1	
Fiscal	0	Project requires funding support
Environmental	-1	Potential for environmental impacts
Social	1	Project mitigates social disruption
Administrative	0	
Multi-Hazard	1	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise
Timeline	1	In progress
Agency Champion	1	County Engineering
Other Community Objectives	0	
<b>Total</b>	7	
<b>Priority (High/Med/Low)</b>	Medium	



Action Worksheet			
<b>Project Name:</b>	Communication Tower Mitigation		
<b>Project Number:</b>	2021-CapeMayCounty-024 (Former CMC 39)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Hurricane/Tropical Storm; Nor'easter; Severe Storm; Severe Winter Weather		
<b>Description of the Problem:</b>	The County is reliant upon several communication towers that are vulnerable to wind damage. The loss of the towers would hinder communication during emergency situations.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Retrofit or replace county communications towers (Paris Grant Program towers) including those located on water towers, which are currently rated for winds less than Cat1 strength		
<b>Is this project related to a Critical Facility or Lifeline?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
<b>Level of Protection:</b>	N/A	<b>Estimated Benefits (losses avoided):</b>	High
<b>Useful Life:</b>	65 years	<b>Goals Met:</b>	1, 3, 4, 6
<b>Estimated Cost:</b>	High	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Within five years
<b>Estimated Time Required for Project Implementation:</b>	In Progress	<b>Potential Funding Sources:</b>	County and Paris Grant funds
<b>Responsible Organization:</b>	CMC OEM & Engineering working with facility owners and municipal support	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Emergency Operations Plan
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
	Alternate communication system	High	Interoperability issues
	New towers	High	
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>	Communication Tower Mitigation	
<b>Project Number:</b>	2021-CapeMayCounty-024 (Former CMC 39)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Enhances life safety/emergency operations
Property Protection	1	Makes County property more resilient
Cost-Effectiveness	1	
Technical	1	Project is technically feasible
Political	0	
Legal	1	Project is legally feasible
Fiscal	0	Project requires funding support
Environmental	0	Potential environmental impacts
Social	1	
Administrative	1	
Multi-Hazard	1	Hurricane/Tropical Storm; Nor'easter; Severe Storm; Severe Winter Weather
Timeline	1	In Progress
Agency Champion	1	CMC OEM & Engineering working with facility owners and municipal support
Other Community Objectives	0	
<b>Total</b>	10	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	CR-657 Beaver Dam Flood Assessment		
<b>Project Number:</b>	2021-CapeMayCounty-025 (Former CMC 43)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Severe Weather, Flood; Hurricane and Tropical Storm		
<b>Description of the Problem:</b>	Certain portions of CR-657 near Beaver Dam are vulnerable to flooding owing to groundwater/high water table issues.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Conduct an engineering study to understand flooding issues and evaluate possible solutions at low areas along Court House-South Dennis Road (CR657) near Beaver Dam Road in Dennis Township.		
<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>	N/A	<b>Estimated Benefits (losses avoided):</b>	Medium- High
<b>Useful Life:</b>	N/A	<b>Goals Met:</b>	1, 3, 4, 5, 6
<b>Estimated Cost:</b>	Medium- High	<b>Mitigation Action Type:</b>	Local Plans and Regulations
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Within five years
<b>Estimated Time Required for Project Implementation:</b>	In Progress - 5% complete	<b>Potential Funding Sources:</b>	County and Local Funding
<b>Responsible Organization:</b>	County Engineering and Municipality	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvements Plan
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
	Road elevation	High	May not mitigate hazard
	Engineering study	Medium	
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>	CR-657 Beaver Dam Flood Assessment	
<b>Project Number:</b>	2021-CapeMayCounty-025 (Former CMC 43)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Will mitigate life safety impacts
Property Protection	1	Protects County property
Cost-Effectiveness	1	Study allows understanding of flooding issue
Technical	1	Project is technically feasible
Political	0	
Legal	1	Project is legally feasible
Fiscal	0	Project requires funding support
Environmental	1	Project will mitigate potential environmental damages
Social	0	
Administrative	1	Project will coordinate administration
Multi-Hazard	1	Severe Weather, Flood; Hurricane and Tropical Storm
Timeline	1	In progress
Agency Champion	1	County Engineering with municipal support
Other Community Objectives	1	
<b>Total</b>	11	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	Shunpike Road (CR620) Flood Mitigation		
<b>Project Number:</b>	2021-CapeMayCounty-026 (Former CMC 44)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Severe Weather, Flood; Hurricane and Tropical Storm		
<b>Description of the Problem:</b>	Shunpike Road in Middle Township is vulnerable to stormwater flooding from inland creeks and waterways.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Conduct an engineering study to understand flooding issues and evaluate possible solutions along the entire length of Shunpike Road (CR620) in Middle Township.		
<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>	N/A	<b>Estimated Benefits (losses avoided):</b>	Medium
<b>Useful Life:</b>	N/A	<b>Goals Met:</b>	1, 3, 4, 5, 6
<b>Estimated Cost:</b>	Medium	<b>Mitigation Action Type:</b>	Local Plans and Regulations
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Within five years
<b>Estimated Time Required for Project Implementation:</b>	Long Term DOF	<b>Potential Funding Sources:</b>	County and Local Funding
<b>Responsible Organization:</b>	County Engineering with municipal support	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvement Plan
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
	Road elevation	High	May not mitigate hazard
	Engineering study	Medium	
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>	Shunpike Road (CR620) Flood Mitigation	
<b>Project Number:</b>	2021-CapeMayCounty-026 (Former CMC 44)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Will mitigate life safety impacts
Property Protection	1	Protects County property
Cost-Effectiveness	1	Study allows understanding of flooding issue
Technical	1	Project is technically feasible
Political	0	
Legal	1	Project is legally feasible
Fiscal	0	Project requires funding support
Environmental	1	Project will mitigate potential environmental damages
Social	0	
Administrative	1	Project will coordinate administration
Multi-Hazard	1	Severe Weather, Flood; Hurricane and Tropical Storm
Timeline	0	Long Term DOF
Agency Champion	1	County Engineering with municipal support
Other Community Objectives	1	
<b>Total</b>	10	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	Fishing Creek/Academy Road		
<b>Project Number:</b>	2021-CapeMayCounty-027 (Former CMC 45)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Severe Weather, Flood; Hurricane and Tropical Storm		
<b>Description of the Problem:</b>	Fishing Creek/Academy Road (CR-639) is a road running through uplands and wetlands in mainland Lower Township. The road experiences nuisance stormwater flooding.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Conduct an engineering study to understand flooding issues and evaluate possible solutions along Fishing Creek/Academy Road (CR639) in Lower Township.		
<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>	N/A	<b>Estimated Benefits (losses avoided):</b>	Medium
<b>Useful Life:</b>	N/A	<b>Goals Met:</b>	1, 3, 4, 5, 6
<b>Estimated Cost:</b>	Medium	<b>Mitigation Action Type:</b>	Local Plans and Regulations
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Within five years
<b>Estimated Time Required for Project Implementation:</b>	In progress- 1% complete	<b>Potential Funding Sources:</b>	County and Local Funding
<b>Responsible Organization:</b>	County Engineering with municipal support	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvement Plan
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
	Road elevation	High	May not mitigate hazard
	Engineering study	Medium	
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>	Fishing Creek/Academy Road	
<b>Project Number:</b>	2021-CapeMayCounty-027 (Former CMC 45)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Will mitigate life safety impacts
Property Protection	1	Protects County property
Cost-Effectiveness	1	Study allows understanding of flooding issue
Technical	1	Project is technically feasible
Political	0	
Legal	1	Project is legally feasible
Fiscal	0	Project requires funding support
Environmental	1	Project will mitigate potential environmental damages
Social	0	
Administrative	1	Project will coordinate administration
Multi-Hazard	1	Severe Weather, Flood; Hurricane and Tropical Storm
Timeline	1	In progress
Agency Champion	1	County Engineering with municipal support
Other Community Objectives	1	
<b>Total</b>	11	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	Fidler Road (CR638) Drainage Mitigation		
<b>Project Number:</b>	2021-CapeMayCounty-028 (Former CMC 48)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Severe Weather, Flood; Hurricane and Tropical Storm		
<b>Description of the Problem:</b>	Fidler Road experiences localized drainage issues and requires repaving.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Conduct an engineering study to understand flooding issues and evaluate possible solutions along Fidler Road (CR638) in Dennis Township		
<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>	N/A	<b>Estimated Benefits (losses avoided):</b>	Medium
<b>Useful Life:</b>	N/A	<b>Goals Met:</b>	1, 3, 4, 5, 6
<b>Estimated Cost:</b>	Medium	<b>Mitigation Action Type:</b>	Local Plans and Regulations
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Within five years
<b>Estimated Time Required for Project Implementation:</b>	Long Term DOF and permitting issues	<b>Potential Funding Sources:</b>	County and Local Funding
<b>Responsible Organization:</b>	County Engineering with municipal support	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvements Plan
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
	Road elevation	High	May not mitigate hazard
	Engineering study	Medium	
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>	Fidler Road (CR638) Drainage Mitigation	
<b>Project Number:</b>	2021-CapeMayCounty-028 (Former CMC 48)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Will mitigate life safety impacts
Property Protection	1	Protects County property
Cost-Effectiveness	1	Study allows understanding of flooding issue
Technical	1	Project is technically feasible
Political	0	
Legal	1	Project is legally feasible
Fiscal	0	Project requires funding support
Environmental	1	Project will mitigate potential environmental damages
Social	0	
Administrative	1	Project will coordinate administration
Multi-Hazard	1	Severe Weather, Flood; Hurricane and Tropical Storm
Timeline	0	Long Term DOF
Agency Champion	1	County Engineering with municipal support
Other Community Objectives	1	
<b>Total</b>	10	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	Shunpike Road (CR644) Flood Mitigation		
<b>Project Number:</b>	2021-CapeMayCounty-029 (Former CMC 50)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Severe Weather, Flood; Hurricane and Tropical Storm		
<b>Description of the Problem:</b>	Shunpike Road in Lower Township runs through the mainland portion of Lower Township through both uplands and wooded wetlands. The road experiences flooding during rainstorms.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Conduct an engineering study to understand flooding issues and evaluate possible solutions along Shunpike Road (CR644) in Lower Township		
<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>	N/A	<b>Estimated Benefits (losses avoided):</b>	Medium
<b>Useful Life:</b>	N/A	<b>Goals Met:</b>	1, 3, 4, 5, 6
<b>Estimated Cost:</b>	Medium	<b>Mitigation Action Type:</b>	Local Plans and Regulations
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Within five years
<b>Estimated Time Required for Project Implementation:</b>	Long Term DOF	<b>Potential Funding Sources:</b>	County and Local Funding
<b>Responsible Organization:</b>	County Engineering with municipal support	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvements Plan
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
	Road elevation	High	May not mitigate hazard
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>	Shunpike Road (CR644) Flood Mitigation	
<b>Project Number:</b>	2021-CapeMayCounty-029 (Former CMC 50)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Will mitigate life safety impacts
Property Protection	1	Protects County property
Cost-Effectiveness	1	Study allows understanding of flooding issue
Technical	1	Project is technically feasible
Political	0	
Legal	1	Project is legally feasible
Fiscal	0	Project requires funding support
Environmental	1	Project will mitigate potential environmental damages
Social	0	
Administrative	1	Project will coordinate administration
Multi-Hazard	1	Severe Weather, Flood; Hurricane and Tropical Storm
Timeline	0	Long Term DOF
Agency Champion	1	County Engineering with municipal support
Other Community Objectives	1	
<b>Total</b>	10	
<b>Priority (High/Med/Low)</b>	High	





Action Worksheet			
<b>Project Name:</b>	Railroad Avenue (CR626) Flood Mitigation		
<b>Project Number:</b>	2021-CapeMayCounty-031 (Former CMC 51)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Severe Weather, Flood; Hurricane and Tropical Storm		
<b>Description of the Problem:</b>	CR-626 runs through the upland portion of Middle Township near Rio Grande. The road experiences flooding issues owing to stormwater and drainage.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Conduct an engineering study to understand flooding issues and evaluate possible solutions along Railroad Avenue (CR626) in Middle Township		
<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>	N/A	<b>Estimated Benefits (losses avoided):</b>	Medium
<b>Useful Life:</b>	N/A	<b>Goals Met:</b>	1, 3, 4, 5, 6
<b>Estimated Cost:</b>	Medium	<b>Mitigation Action Type:</b>	Local Plans and Regulations
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Within five years
<b>Estimated Time Required for Project Implementation:</b>	Long Term DOF	<b>Potential Funding Sources:</b>	County and Local Funding
<b>Responsible Organization:</b>	County Engineering with municipal support	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvements Plan
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
	Road elevation	High	May not mitigate hazard
	Engineering study	Medium	
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>	Railroad Avenue (CR626) Flood Mitigation	
<b>Project Number:</b>	2021-CapeMayCounty-031 (Former CMC 51)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Will mitigate life safety impacts
Property Protection	1	Protects County property
Cost-Effectiveness	1	Study allows understanding of flooding issue
Technical	1	Project is technically feasible
Political	0	
Legal	1	Project is legally feasible
Fiscal	0	Project requires funding support
Environmental	1	Project will mitigate potential environmental damages
Social	0	
Administrative	1	Project will coordinate administration
Multi-Hazard	1	Severe Weather, Flood; Hurricane and Tropical Storm
Timeline	0	Long Term DOF
Agency Champion	1	County Engineering with municipal support
Other Community Objectives	1	
<b>Total</b>	10	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	Seashore Road (CR626) Flood Mitigation		
<b>Project Number:</b>	2021-CapeMayCounty-031 (Former CMC 52)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Severe Weather, Flood; Hurricane and Tropical Storm		
<b>Description of the Problem:</b>	Seashore Road runs from Middle Township to West Cape May through Middle Township. The road is predominantly located along uplands but experiences nuisance stormwater flooding.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Conduct an engineering study to understand flooding issues and evaluate possible solutions along Seashore Road (CR626) in Lower Township		
<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>	N/A	<b>Estimated Benefits (losses avoided):</b>	Medium
<b>Useful Life:</b>	N/A	<b>Goals Met:</b>	1, 3, 4, 5, 6
<b>Estimated Cost:</b>	Medium	<b>Mitigation Action Type:</b>	Local Plans and Regulations
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Within five years
<b>Estimated Time Required for Project Implementation:</b>	Long Term DOF	<b>Potential Funding Sources:</b>	County and Local Funding
<b>Responsible Organization:</b>	County Engineering with municipal support	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvements Plan
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
	Road elevation	High	May not mitigate hazard
	Engineering study	Medium	
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>	Seashore Road (CR626) Flood Mitigation	
<b>Project Number:</b>	2021-CapeMayCounty-031 (Former CMC 52)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Will mitigate life safety impacts
Property Protection	1	Protects County property
Cost-Effectiveness	1	Study allows understanding of flooding issue
Technical	1	Project is technically feasible
Political	0	
Legal	1	Project is legally feasible
Fiscal	0	Project requires funding support
Environmental	1	Project will mitigate potential environmental damages
Social	0	
Administrative	1	Project will coordinate administration
Multi-Hazard	1	Severe Weather, Flood; Hurricane and Tropical Storm
Timeline	0	Long Term DOF
Agency Champion	1	County Engineering with municipal support
Other Community Objectives	1	
<b>Total</b>	10	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	Dias Creek Road (CR612) Flood Mitigation		
<b>Project Number:</b>	2021-CapeMayCounty-032 (Former CMC 53)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Severe Weather, Flood; Hurricane and Tropical Storm		
<b>Description of the Problem:</b>	Dias Creek Road runs between Route 47 and Cape May Courthouse through wetlands, forest, and low-density residential areas. The area is subject to stormwater flooding. Flooding for one side of the road has been mitigated.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Conduct an engineering study to understand flooding issues and evaluate possible solutions along Dias Creek Road (CR612) in Middle Township		
<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>	N/A	<b>Estimated Benefits (losses avoided):</b>	Medium
<b>Useful Life:</b>	N/A	<b>Goals Met:</b>	1, 3, 4, 5, 6
<b>Estimated Cost:</b>	Medium	<b>Mitigation Action Type:</b>	Local Plans and Regulations
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Within five years
<b>Estimated Time Required for Project Implementation:</b>	Long Term DOF	<b>Potential Funding Sources:</b>	County and Local Funding
<b>Responsible Organization:</b>	County Engineering with municipal support	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvements Plan
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
	Road elevation	High	May not mitigate hazard
	Engineering study	Medium	
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>	Dias Creek Road (CR612) Flood Mitigation	
<b>Project Number:</b>	2021-CapeMayCounty-032 (Former CMC 53)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Will mitigate life safety impacts
Property Protection	1	Protects County property
Cost-Effectiveness	1	Study allows understanding of flooding issue
Technical	1	Project is technically feasible
Political	0	
Legal	1	Project is legally feasible
Fiscal	0	Project requires funding support
Environmental	1	Project will mitigate potential environmental damages
Social	0	
Administrative	1	Project will coordinate administration
Multi-Hazard	1	Severe Weather, Flood; Hurricane and Tropical Storm
Timeline	0	Long Term DOF
Agency Champion	1	County Engineering with municipal support
Other Community Objectives	1	
<b>Total</b>	10	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	Goshen-Swainton Road (CR646) Flood Mitigation		
<b>Project Number:</b>	2021-CapeMayCounty-033 (Former CMC 55)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Severe Weather, Flooding		
<b>Description of the Problem:</b>	Goshen-Swainton Road (CR-646) runs east-west across Middle Township connecting the neighborhoods of Goshen and Swainton. The road traverses the Cape May National Wildlife Refuge and is impacted by stormwater flooding.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Conduct an engineering study to understand flooding issues and evaluate possible solutions along Goshen-Swainton Road (CR646) in Middle Township		
<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>	N/A	<b>Estimated Benefits (losses avoided):</b>	Medium
<b>Useful Life:</b>	N/A	<b>Goals Met:</b>	1, 3, 4, 5, 6
<b>Estimated Cost:</b>	Medium	<b>Mitigation Action Type:</b>	Local Plans and Regulations
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Within five years
<b>Estimated Time Required for Project Implementation:</b>	Long Term DOF	<b>Potential Funding Sources:</b>	County and Local Funding
<b>Responsible Organization:</b>	County Engineering with municipal support	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvements Plan
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
	Road elevation	High	May not mitigate hazard
	Engineering study	Medium	
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>	Goshen-Swainton Road (CR646) Flood Mitigation	
<b>Project Number:</b>	2021-CapeMayCounty-033 (Former CMC 55)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Will mitigate life safety impacts
Property Protection	1	Protects County property
Cost-Effectiveness	1	Study allows understanding of flooding issue
Technical	1	Project is technically feasible
Political	0	
Legal	1	Project is legally feasible
Fiscal	0	Project requires funding support
Environmental	1	Project will mitigate potential environmental damages
Social	0	
Administrative	1	Project will coordinate administration
Multi-Hazard	1	Severe Weather, Flooding
Timeline	0	Long Term DOF
Agency Champion	1	County Engineering with municipal support
Other Community Objectives	1	
<b>Total</b>	10	
<b>Priority (High/Med/Low)</b>	High	





Action Worksheet			
<b>Project Name:</b>	West Cape May Drainage Improvements		
<b>Project Number:</b>	2021-CapeMayCounty-034 (Former CMC 58)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Hurricane & Tropical Storm, Severe Weather, Flooding		
<b>Description of the Problem:</b>	The Perry Street (CR-633) outfall in West Cape May receives and conveys the Borough's drainage. The outfall requires reconfiguration due to the volume of water, causing the potential for backups		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Develop a stormwater master plan for West Cape May.		
<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>	N/A	<b>Estimated Benefits (losses avoided):</b>	Medium- decreased nuisance flooding
<b>Useful Life:</b>	N/A	<b>Goals Met:</b>	1, 3, 4, 6
<b>Estimated Cost:</b>	Low	<b>Mitigation Action Type:</b>	Local Plans and Regulations
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Within five years
<b>Estimated Time Required for Project Implementation:</b>	Short Term	<b>Potential Funding Sources:</b>	County and Local Funding
<b>Responsible Organization:</b>	County Engineering with municipal support	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Local stormwater plan/Capital Improvements Plan
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
	Ad hoc improvements	Medium	Does not mitigate
	Stormwater Plan	Low	Proactively address flooding
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>	West Cape May Drainage Improvements	
<b>Project Number:</b>	2021-CapeMayCounty-034 (Former CMC 58)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	0	
Cost-Effectiveness	0	
Technical	1	
Political	1	
Legal	1	Project is legally feasible
Fiscal	0	Project requires funding support
Environmental	1	Project enhances drainage
Social	1	Mitigates disruption due to loss of road
Administrative	1	
Multi-Hazard	1	Hurricane & Tropical Storm, Severe Weather, Flooding
Timeline	1	Short Term
Agency Champion	1	County Engineering with municipal support
Other Community Objectives	1	Supports municipal efforts
<b>Total</b>	10	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	Ocean Drive (CR619) Shore Protection at Townsends Inlet		
<b>Project Number:</b>	2021-CapeMayCounty-035 (Former CMC 60)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise; Coastal Erosion		
<b>Description of the Problem:</b>	Townsends Inlet in Avalon experiences wave overtopping due to a lack of beach fill and protective measures. This threatens traveling vehicles and the integrity of the roadway.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Install shore protection along Ocean Drive (CR619) at Townsends Inlet in Avalon.		
<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>	Base flood elevation	<b>Estimated Benefits (losses avoided):</b>	Medium
<b>Useful Life:</b>	40 years	<b>Goals Met:</b>	1, 3, 4, 6
<b>Estimated Cost:</b>	Low	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Within 10 years
<b>Estimated Time Required for Project Implementation:</b>	In progress- full implementation DOF	<b>Potential Funding Sources:</b>	County and local funding
<b>Responsible Organization:</b>	County Engineering/ Planning with municipal support	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvements Plan
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
	Road abandonment	Medium	Not feasible
	Shore protection	Low	Feasible
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 Drive (CR619) Shore Protection at Townsends Inlet	
<b>Project Number:</b>	2021-CapeMayCounty-035 (Former CMC 60)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Supports evacuation
Property Protection	1	Protects County property
Cost-Effectiveness	0	
Technical	1	Project is technically feasible
Political	1	
Legal	1	
Fiscal	0	Project requires funding support
Environmental	0	Potential environmental impacts
Social	1	
Administrative	1	
Multi-Hazard	1	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise; Coastal Erosion
Timeline	1	In progress- full implementation DOF
Agency Champion	1	County Engineering/Planning with municipal support
Other Community Objectives	1	Supports municipal initiatives
<b>Total</b>	11	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	Ocean Drive (CR619) Flood Mitigation at Nummy Island		
<b>Project Number:</b>	2021-CapeMayCounty-036 (Former CMC 62)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise; Coastal Erosion		
<b>Description of the Problem:</b>	Ocean Drive runs for just over a mile in Middle Township between Stone Harbor and Grassy Sound. The road traverses a low-lying marsh island and can be impacted by tides between three and four feet above typical high tide.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Install shore/roadway protection along Ocean Drive (CR619) in Middle Township		
<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>	N/A	<b>Estimated Benefits (losses avoided):</b>	High
<b>Useful Life:</b>	30 Years	<b>Goals Met:</b>	1, 3, 4, 6
<b>Estimated Cost:</b>	High	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Less than five years
<b>Estimated Time Required for Project Implementation:</b>	Long Term DOF	<b>Potential Funding Sources:</b>	HMA Grants, County and Local Funding
<b>Responsible Organization:</b>	County Engineering with municipal support	<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
	Roadway Abandonment	Low	Loss of access
	Shore protection	High	Continued use of roadway
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 Drive (CR619) Flood Mitigation at Nummy Island	
<b>Project Number:</b>	2021-CapeMayCounty-036 (Former CMC 62)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Supports evacuation
Property Protection	1	Protects County property
Cost-Effectiveness	0	
Technical	1	Project is technically feasible
Political	1	
Legal	1	
Fiscal	0	Project requires funding support
Environmental	0	Potential environmental impacts
Social	1	
Administrative	1	
Multi-Hazard	1	Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise; Coastal Erosion
Timeline	0	Long Term DOF
Agency Champion	1	County Engineering with municipal support
Other Community Objectives	0	
<b>Total</b>	9	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	West Cape May Drainage Improvements		
<b>Project Number:</b>	2021-CapeMayCounty-036 (Former CMC 58)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Hurricane & Tropical Storm, Severe Weather, Flooding		
<b>Description of the Problem:</b>	The Perry Street outfall in West Cape May receives and conveys the Borough's drainage. The outfall requires reconfiguration due to the volume of water, causing the potential for backups		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Develop a stormwater master plan for West Cape May.		
<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>	N/A	<b>Estimated Benefits (losses avoided):</b>	Medium- decreased nuisance flooding
<b>Useful Life:</b>	N/A	<b>Goals Met:</b>	1, 3, 4, 6
<b>Estimated Cost:</b>	Low	<b>Mitigation Action Type:</b>	Local Plans and Regulations
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Within five years
<b>Estimated Time Required for Project Implementation:</b>	Short Term	<b>Potential Funding Sources:</b>	County and Local Funding
<b>Responsible Organization:</b>	County Engineering with municipal support	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Local stormwater plan/Capital Improvements Plan
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
	Ad hoc improvements	Medium	Does not mitigate
	Stormwater Plan	Low	Proactively address flooding
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>	West Cape May Drainage Improvements	
<b>Project Number:</b>	2021-CapeMayCounty-036 (Former CMC 58)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	0	
Cost-Effectiveness	0	
Technical	1	
Political	1	
Legal	1	Project is legally feasible
Fiscal	0	Project requires funding support
Environmental	1	Project enhances drainage
Social	1	Mitigates disruption due to loss of road
Administrative	1	
Multi-Hazard	1	Hurricane & Tropical Storm, Severe Weather, Flooding
Timeline	1	Short Term
Agency Champion	1	County Engineering with municipal support
Other Community Objectives	1	Supports municipal efforts
<b>Total</b>	10	
<b>Priority (High/Med/Low)</b>	High	





Action Worksheet			
<b>Project Name:</b>	Goshen Road (CR615) Drainage Improvements		
<b>Project Number:</b>	2021-CapeMayCounty-037 (Former CMC 63)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Flood, Severe Weather; Hurricane and Tropical Storm		
<b>Description of the Problem:</b>	Goshen Road (CR-615) traverses through forested uplands and is vulnerable to stormwater flooding along a portion of its route in Middle Township.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Construction of storm drain pipe to minimize flooding on Goshen Road (CR615) from Johnson Lane to Church Street in Middle Township.		
<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>	N/A	<b>Estimated Benefits (losses avoided):</b>	Medium- decreased nuisance flooding
<b>Useful Life:</b>	N/A	<b>Goals Met:</b>	1, 3, 4, 6
<b>Estimated Cost:</b>	Low	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Within five years
<b>Estimated Time Required for Project Implementation:</b>	Short Term	<b>Potential Funding Sources:</b>	County and Local Funding
<b>Responsible Organization:</b>	County Engineering with municipal support	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Local stormwater plan/Capital Improvements Plan
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
	Ad hoc improvements	Medium	Does not mitigate
	Storm drain construction	Low	Address flooding
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>	Goshen Road (CR615) Drainage Improvements	
<b>Project Number:</b>	2021-CapeMayCounty-037 (Former CMC 63)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	0	
Cost-Effectiveness	0	
Technical	1	
Political	1	
Legal	1	Project is legally feasible
Fiscal	0	Project requires funding support
Environmental	1	Project enhances drainage
Social	1	Mitigates disruption due to loss of road
Administrative	1	
Multi-Hazard	1	Hurricane & Tropical Storm, Severe Weather, Flooding
Timeline	1	In progress
Agency Champion	1	County Engineering with municipal support
Other Community Objectives	1	Supports municipal efforts
<b>Total</b>	10	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	34 <sup>th</sup> Street Stormwater Pump Station		
<b>Project Number:</b>	2021-CapeMayCounty-041 (Former CMC-77)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Severe Storm; Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise		
<b>Description of the Problem:</b>	34 <sup>th</sup> Street/Roosevelt Boulevard (CR-623) is a major thoroughfare into Ocean City and also an evacuation route. The AADT on 34 <sup>th</sup> Street ranges from nearly 12,500 vehicles in the off-season to nearly 25,000 vehicles in the summer months. The route is vulnerable to stormwater and tidal flooding owing to the low-lying elevation of the roadway and the lack of a structural barrier to flooding along Roosevelt Boulevard in the wetlands section.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	The County proposes to install a stormwater pump station serving 34 <sup>th</sup> Street to alleviate nuisance flooding on the road and maintain the utility of the evacuation route during flooding events.		
<b>Is this project related to a Critical Facility or Lifeline?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
<b>Level of Protection:</b>	N/A	<b>Estimated Benefits (losses avoided):</b>	Life safety- maintenance of evacuation route utility
<b>Useful Life:</b>	30 years	<b>Goals Met:</b>	1, 3, 4, 6
<b>Estimated Cost:</b>	High	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	Medium	<b>Desired Timeframe for Implementation:</b>	Less than five years
<b>Estimated Time Required for Project Implementation:</b>	Long Term DOF	<b>Potential Funding Sources:</b>	HMGP; County/local funds; FMA
<b>Responsible Organization:</b>	Cape May County Public Works/County Engineer; City of Ocean City	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvements Plan, Local stormwater master plan
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
	Enhanced drainage	High	Does not completely mitigate flooding
	Pump station	High	Continued function of roadway
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>	34 <sup>th</sup> Street Stormwater Pump Station	
<b>Project Number:</b>	2021-CapeMayCounty-041 (Former CMC-77)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	0	
Cost-Effectiveness	0	
Technical	1	
Political	0	
Legal	1	
Fiscal	0	Project requires funding support
Environmental	1	Enhances drainage
Social	1	Mitigates disruption due to lack of road service
Administrative	1	
Multi-Hazard	1	Severe Storm; Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise
Timeline	0	Long Term DOF
Agency Champion	1	Cape May County Public Works/County Engineer; City of Ocean City
Other Community Objectives	1	Supports city initiatives
<b>Total</b>	8	
<b>Priority (High/Med/Low)</b>	Medium	



Action Worksheet			
<b>Project Name:</b>	Strathmere Drainage Improvements		
<b>Project Number:</b>	2021-CapeMayCounty-043 (Former CMC-79)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Severe Storm; Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise		
<b>Description of the Problem:</b>	The Strathmere section of Upper Township is a low-lying barrier island community. Commonwealth Ave/CR-619 is the major north-south route through Strathmere and connects the neighborhood to evacuation routes to the north in Ocean City and to the South in Sea Isle City. When Commonwealth Avenue is flooded, evacuation from the neighborhood is impeded. The Avenue will continue to experience inhibited access during rain and tidal events.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	The County, in conjunction with Upper Township, proposes improvements to Commonwealth Avenue to alleviate drainage issues and reduce flooding. Proposed upgrades include upgrading, upsizing, and redirecting stormwater outfall pipes to allow for the enhanced drainage of stormwater. Stormwater pump stations will be considered for feasibility.		
<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>	N/A	<b>Estimated Benefits (losses avoided):</b>	High
<b>Useful Life:</b>	40 years	<b>Goals Met:</b>	1, 3, 4, 6
<b>Estimated Cost:</b>	High	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	Medium	<b>Desired Timeframe for Implementation:</b>	Less than five years
<b>Estimated Time Required for Project Implementation:</b>	Long Term DOF	<b>Potential Funding Sources:</b>	County
<b>Responsible Organization:</b>	CMC Engineering Working with Upper Township	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvements Plan, Repetitive Loss Area Analysis
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
	Road elevation	High	Not currently feasible
	Drainage Improvements	High	Mitigation of flooding issues
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>	Strathmere Drainage Improvements	
<b>Project Number:</b>	2021-CapeMayCounty-043 (Former CMC-79)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	0	
Cost-Effectiveness	0	
Technical	1	
Political	0	
Legal	1	
Fiscal	0	Project requires funding support
Environmental	1	Project enhances drainage
Social	1	Project mitigates social disruption due to loss of road service
Administrative	1	
Multi-Hazard	1	Severe Storm; Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise
Timeline	0	Long Term DOF
Agency Champion	1	CMC Engineering Working with Upper Township
Other Community Objectives	1	Supports Township initiatives
<b>Total</b>	8	
<b>Priority (High/Med/Low)</b>	Medium	



Action Worksheet			
<b>Project Name:</b>	Sea Isle City Drainage Improvements		
<b>Project Number:</b>	2021-CapeMayCounty-044 (Former CMC-80)		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Severe Storm; Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise		
<b>Description of the Problem:</b>	CR-619 (Landis Avenue) and CR-625 (JFK Boulevard) are major thoroughfares in Sea Isle City and carry stormwater drainage infrastructure. The City experiences frequent nuisance flooding on these streets.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	The County proposes to undertake drainage improvements to these roadways and coordinate with Sea Isle City to facilitate drainage in the vicinity. Outfall pipes require upgrading and upsizing. Stormwater pump stations will be considered.		
<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>	N/A	<b>Estimated Benefits (losses avoided):</b>	Reduced disruption due to stormwater flooding
<b>Useful Life:</b>	30 years	<b>Goals Met:</b>	1, 3, 4, 6
<b>Estimated Cost:</b>	Medium	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	Medium	<b>Desired Timeframe for Implementation:</b>	Within five years
<b>Estimated Time Required for Project Implementation:</b>	Long Term DOF	<b>Potential Funding Sources:</b>	County Funds; BRIC
<b>Responsible Organization:</b>	CMC Engineering working with Sea Isle City	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Local drainage plan
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Current problem continues
	Road elevations	High	Not currently feasible at scale
	Drainage improvements	Medium	Mitigated flooding
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>	Sea Isle City Drainage Improvements	
<b>Project Number:</b>	2021-CapeMayCounty-044 (Former CMC-80)	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	0	
Cost-Effectiveness	0	
Technical	1	
Political	0	
Legal	1	
Fiscal	0	Project requires funding support
Environmental	1	Project enhances drainage
Social	1	Project mitigates social disruption due to loss of road service
Administrative	1	
Multi-Hazard	1	Severe Storm; Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise
Timeline	0	Long Term DOF
Agency Champion	1	CMC Engineering working with Sea Isle City
Other Community Objectives	1	Supports City initiatives
<b>Total</b>	8	
<b>Priority (High/Med/Low)</b>	Medium	





Action Worksheet			
<b>Project Name:</b>	Construct a Sea Wall barrier around the Ocean City Wastewater Treatment Facility		
<b>Project Number:</b>	2021-CapeMayCounty-046		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Severe Storm; Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise		
<b>Description of the Problem:</b>	The Ocean City Wastewater Treatment Facility located at 45 <sup>th</sup> and Simpson Ave in Ocean City treats all of the wastewater from the island of Ocean City, NJ. It is a critical piece of infrastructure that currently is not hardened against a major flood. Furthermore, it resides directly adjacent to the intercostal waterway and just two city blocks from the Atlantic Ocean. In the event of a major flood caused by hurricane, nor'easter storm or the like that resulted in the facility going completely underwater, the facility's ability to treat wastewater from the island of Ocean City would be compromised. In the worst case scenario, the facility could be out of service for several weeks.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	The construction of a sea wall around the perimeter of the Ocean City Wastewater Facility would mitigate the catastrophic flood risk.		
<b>Is this project related to a Critical Facility or Lifeline?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
<b>Level of Protection:</b>	500 Year	<b>Estimated Benefits (losses avoided):</b>	Eliminate or reduce risk of loss of the Wastewater Treatment facility essential to public health of Ocean City.
<b>Useful Life:</b>	50	<b>Goals Met:</b>	1, 3, 4, 6
<b>Estimated Cost:</b>	\$5,000,000 - \$10,000,000	<b>Mitigation Action Type:</b>	Structure and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	10 years
<b>Estimated Time Required for Project Implementation:</b>	3 years	<b>Potential Funding Sources:</b>	FMA; BRIC; County Funds
<b>Responsible Organization:</b>	CMCMUA Engineer	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Capital Improvements Plan
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
	Construct Sea Wall	5,000,000 - \$10,000,000	Mitigate current risk
	Install flood gates on doors, hatches and manholes	\$100,000 - \$500,000	Risk of catastrophic outage still present. Could help with smaller storm surges that only last a short period.
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>	Construct a Sea Wall barrier around the Ocean City Wastewater Treatment Facility	
<b>Project Number:</b>	2021-CapeMayCounty-046	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Staff at facility protected
Property Protection	1	Protect MUA property
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	1	Project requires funding support
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	Severe Storm; Flood; Hurricane/Tropical Storm; Nor'easter; Climate Change and Sea Level Rise
Timeline	0	3 years
Agency Champion	1	CMCMUA Engineer
Other Community Objectives	1	Capital Improvement Plan; County
<b>Total</b>	13	
<b>Priority (High/Med/Low)</b>	High	