

SECTION 9. JURISDICTIONAL ANNEXES

9.23 TOWNSHIP OF MOORESTOWN

This section presents the jurisdictional annex for the Township of Moorestown that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Township of Moorestown participated in the planning process, an assessment of the Township of Moorestown's risk and vulnerability, the different capabilities used in the Township of Moorestown, and an action plan that will be implemented to achieve a more resilient community.

9.23.1 Hazard Mitigation Planning Team

The Township of Moorestown identified the hazard mitigation plan primary and alternate points of contact and developed this plan over the course of several months with input from many Township of Moorestown departments, including Emergency Management, Construction, and Township Administration. The Emergency Management Coordinator represented the community on the Burlington County Hazard Mitigation Planning Partnership and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality's planning process through Planning Partnership meetings is included in Volume 1, Section 2 (Planning Process) and Appendix C (Meeting Documentation).

Table 9.23-1. Hazard Mitigation Planning Team

Pri	Primary Point of Contact		Alternate Point of Contact
Name/Title:	James Carruthers, OEM Coordinator	Name/Title:	Kevin Aberant, Township Manager
Address:	111 West Second Street,	Address:	111 West Second Street, Moorestown, NJ
	Moorestown, NJ 08057		08057
Phone Number:	(609) 315-6787	Phone Number:	(856) 914-3001
Email:	jcarruthers@moorestown.nj.us	Email:	kaberant@moorestown.nj.us
NFIP Floodplain A	Administrator		
Name/Title:	Joseph LaRocca, Construction Official		
Address:	111 West Second Street, Moorestown, NJ 08057		
Phone Number:	(856) 914-3017		
Email:	jlarocca@moorestown.nj.us		



Additional Contributors:	
Name/Title: Method of Participation:	Don Lloyd, Director of Public Works Assisted with completion of hazard event history worksheet. Conducted review of draft annex
mountain and a patient	and provided feedback.
Name/Title:	Jordan Webster, Deputy Director of Public Works
Method of Participation:	Conducted review of draft annex and provided feedback.
Name/Title:	James Carruthers, OEM Coordinator
Method of Participation:	Completed worksheets on capabilities and hazard event history. Attended Planning Partnership and Steering Committee meetings. Conducted review of draft annex and provided feedback.
Name/Title:	Joseph LaRocca, Construction Official
Method of Participation:	Completed worksheets on NFIP, permits, and development. Conducted review of draft annex and provided feedback.
Name/Title:	Kevin Aberant, Township Manager
Method of Participation:	Attended Planning Partnership meetings. Conducted review of draft annex and provided feedback.

9.23.2 Municipal Profile

The Township of Moorestown is located in the northwestern portion of Burlington County and encompasses 16.1 square miles. The Township is bordered by Mount Laurel to the south, Maple Shade to the west, Cinnaminson to the northwest, Delran to the north and northeast, and Willingboro to the east. There are several unincorporated communities found within the Township: Bortons Landing, Moorestown-Lenola, Stanwick and West Moorestown.

Although Moorestown is over 300 years old, it was incorporated by an act of the NJ State Legislature approved on March 11, 1922. That is from Chapter 68 of the Laws of 1922 published in the 'Acts of the One Hundred and Forty-seventh Legislature of the State of New Jersey and Seventy-ninth Under the New Constitution' MacCrellish & Quigley Co., State Printers, Trenton, N.J., 1923.

The Township of Moorestown is governed under the Council-Manager (Faulkner Act) form of government. Under this form, a five-member Council is elected at large on a partisan basis. Each member is elected for a 4- year term, on an overlapping basis. The council is the legislative body of the municipality but also appoints the positions of Municipal Clerk, Tax Assessor and well as provides for appointments of members of Boards. Perhaps most importantly, the council appoints a qualified manager to serve as the chief executive.

The mayor is selected by the council members. Either way, the mayor serves as the presiding member of the council. The Manager has the full administrative responsibility for the municipality, including appointment of department heads as well as subordinates, preparation and presentation of the budget and the negotiation of contracts.

According to the U.S. Census, the 2020 population for the Township of Moorestown was 21,355, a 3 percent increase from the 2010 Census. Data from the 2021 American Community Survey 5-Year Population Estimates indicate that 16.3 percent is 65 years of age or older, 3.9 percent of the population is 5 years of age or younger, 2.8 percent is non-English speaking 7.7 percent has a disability, and 3.8 percent is below the poverty level.



The Steering Committee also identified households that are above the Federal Poverty Level, but earn less than the basic cost of living as socially vulnerable. For the Township of Moorestown, 19 percent of households earn less than the basic cost of living and are considered socially vulnerable.

Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

9.23.3 Jurisdictional Capability Assessment and Integration

The Township of Moorestown performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1, Section 5 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment includes the following analyses:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.
- The community's adaptive capacity to withstand hazard events.

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of the hazard mitigation analysis, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. The updated mitigation strategy provided an opportunity for the Township of Moorestown to identify opportunities for integration of mitigation concepts that can be incorporated into municipal procedures.

Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Township of Moorestown. The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.

Table 9.23-2. Planning, Legal, and Regulatory Capability and Integration

	Jurisdiction has this? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Codes, Ordinances, & Regulations				
Building Code	Yes	Chapter 56 Uniform	State, Local	Construction
		Construction Codes		Official
How does this reduce risk?				



	Jurisdiction has this? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
This chapter and the Building Code shall be enforced a province all buildings are in line with the Unif				
code ensures all buildings are in line with the Unifo	T T	· · ·		
Zoning/Land Use Code	Yes	Chapter 180 Zoning	Local	Zoning Officer, Zoning Board of Adjustment
How does this reduce risk? The code enables where appropriate, flexibility of c qualities, protect areas of meaningful ecological va and utilities, minimize negative environmental imp conservation of energy, increase recreational oppo	lue, reduce flood acts, improve the	hazards, facilitate the adequate ar aesthetic quality of new residentia	nd economical prov al developments, er	vision of streets ncourage the
Subdivision Ordinance	Yes	Chapter 158 Land Development and Subdivision of Land	State, Local	Planning Board, Community Development
How does this reduce risk?				
development of the Township. Land to be subdivided purposes without danger to health or peril from fire the area in which it is located. Land subject to fire, nor for such other uses as may increase danger to uses as shall not involve such danger nor produce	e, flood, or other flood or other ha health, life, or pro	menace, and without resulting in stands shall not be subdivided nor operty, or aggravate a flood hazard	significant damage developed for resid	to the ecology of lential purposes,
Site Plan Ordinance	Yes	Chapter 158 Land Development and Subdivision of Land, Article V Site Plan Review	State, Local	Planning Board
How does this reduce risk? Approval of a site plan by the Planning Board is reconstructed portion thereof for a new use; b) the expansion or portion thereof. The Planning Board sets forth app purposes, including drainage. Per the ordinance, a rate of surface runoff or otherwise contribute to do hundred-year frequency storm.	relocation of any ropriate conditio proposed stormy ownstream floodi	existing use; or c) any change of uns and safeguards which are in har water drainage system shall be adeing during a storm of any magnitud	se of a building, sti mony with several quate to prevent a de, up to and includ	ructure or lot or identified ny increase in the ding a one-
Stormwater Management Ordinance	Yes	Chapter 158 Land Development and Subdivision of Land, Article IV Improvements	State, Local	Township Manager, Public Works
How does this reduce risk? The purpose of this article is to establish minimum general health, safety, and welfare of the public resincreases in the volumes and rates of stormwater rerosion.	iding within this	agement requirements and contro jurisdiction. An identified objective	of this ordinance i	is to minimize
Post-Disaster Recovery/ Reconstruction	No	-	-	-
Ordinance How does this reduce risk?				
Real Estate Disclosure	Yes	Senate Bill 3110; P. L. 2023, c. 93, July 3, 2023	State	Sellers and Landlords of commercial or



Jurisdiction has this? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
			residential
			property

How does this reduce risk?

For leases, the law amends the New Jersey Truth-in-Renting Act, N.J.S.A. 46:8-43 et seq., to require every landlord to notify in writing each of the landlord's tenants, prior to lease signing or renewal, whether the property is located in the Federal Emergency Management Agency (FEMA) Special Flood Hazard Area ("100-year floodplain") or Moderate Risk Flood Hazard Area ("500-year floodplain") and if the landlord has actual knowledge that the rental premises or any portion of the parking areas of the real property containing the rental premises has been subjected to flooding. The law does not apply to (1) landlords who lease commercial space or residential dwellings for less than one month, (2) residential dwellings in a premises containing not more than two units, (3) owner-occupied premises containing not more than three units, or (4) hotels, motels, or other quest houses serving transient or seasonal quests for a period of less than 120 days.

The model notice is to contain the heading "Flood Risk" and questions for the landlord to answer regarding the landlord's actual knowledge of past flooding of the property. The questions regarding the property being in a FEMA Special or Moderate Risk Flood Hazard Area shall not contain the option for "unknown." To determine how the questions are to be answered, FEMA's current flood insurance rate maps for the leased premises area must be consulted. The landlord will be required to answer whether the rental premises or any portions of the parking areas of the real property containing the rental premises ever experienced any flood damage, water seepage, or pooled water due to a natural flood event and, if so, the number of times that has occurred.

The notice to residential tenants must also indicate that flood insurance may be available to renters through FEMA's National Flood Insurance Program to cover their personal property and contents in the event of a flood and that standard renter's insurance does not typically cover flood damage.

For sales, the law also amends the New Jersey Consumer Fraud Act, N.J.S.A. 56:8-1 et seq., to require sellers of real property to disclose, on the property condition disclosure statement, whether the property is located in the FEMA Special or Moderate Risk Flood Hazard Area and any actual knowledge of the seller concerning flood risks of the property to the purchaser before the purchaser becomes obligated under any contract for the purchase of the property.

The disclosure statement must contain the heading "Flood Risk" and ask the seller the following questions:

- Is any or all of the property in the Special Flood Hazard Area ("100-year floodplain") or a Moderate Risk Flood Hazard Area ("500-year floodplain") according to FEMA's current flood insurance rate maps?
- Is the property subject to any requirement under federal law to obtain and maintain flood insurance on the property? Properties in the Special Flood Hazard Area with mortgages from federally regulated or insured lenders are required to obtain and maintain flood insurance.
- Have you ever received assistance from, or are you aware of any previous owners receiving assistance from FEMA, the U.S. Small
 Business Administration, or any other federal disaster flood assistance for flood damage on the property? For properties that
 have received flood disaster assistance, the requirement to obtain flood insurance passes down to all future owners.
- Is there flood insurance on the property? A standard homeowner's insurance policy typically does not cover flood damage.
- Is there a FEMA elevation certificate available for the property? If so, it must be shared with the buyer. An elevation certificate is a FEMA form, completed by a licensed surveyor or engineer, that provides critical information about the flood risk of the property and is used by flood insurance providers to determine the appropriate insurance rating for the property.
- Have you ever filed a claim for flood damage to the property with any insurance provider? If the claim was approved, what was the amount received?
- Has the property experienced any flood damage, water seepage, or pooled water due to a natural flood event, such as heavy rainfall, coastal storm surge, tidal inundation, or river overflow? If so, how many times?

Not all provisions of this law have become effective at the time of the writing of this plan.

Growth Management	No	-	-	-
How does this reduce risk?				
				ı
Environmental Protection Ordinance	Yes	Chapter 150 Soil Removal	Local	Township
				Council
How does this reduce risk?				



This chapter restricts the excavation or removal of soil for sale or for use other than on the premises from which the soil shall be taken, except in connection with the construction or alteration of a building on such premises and excavation or grading incidental thereto, without first shang procured permission therefor from the Township Council. Flood Damage Prevention Ordinance Yes Chapter 83 Flood Damage Federal, State, Construction of South Prevention Local Official How does this reduce risk? The Flood Damage Prevention Ordinance shall promote the public health, safety, and general welfare and minimize public and private losses due to flood conditions in all areas of special flood hazard. The ordinance requires two feet of freeboard when base flood elevation data are available and three feet when it is not. Wellhead Protection No		Jurisdiction has this?	Code Citation and Date (code chapter, name of plan,	Authority (local, county,	Individual / Department /
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Wellhead Protection No		al flood hazard. T	ne ordinance requires two feet of f	reeboard when bas	e flood elevation
Emergency Management Ordinance					
Emergency Management Ordinance		No	-	-	-
Climate Change Ordinance	How does this reduce risk?				
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Could include the following areas, Water Infrastructure, Sewer infrastructure, roadway. Disaster Debris Management Plan No				l' l 6	
Disaster Debris Management Plan No				odical manner. Cap	ital improvements
Floodplain Management or Watershed Plan No	-		tructure, roadway.		
Floodplain Management or Watershed Plan No		No	-	-	-
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How does this reduce risk? Stormwater Management Plan Yes Municipal Stormwater Management Plan, March 2005; Revised September 2007,	Floodplain Management or Watershed Plan	No	-	-	-
Management Plan, March 2005; Revised September 2007,	How does this reduce risk?				
Management Plan, March 2005; Revised September 2007,	Stormwater Management Dlan	Voc	Municipal Stormwater	Local	Public Works
2005; Revised September 2007,	Stormwater Management Flan	162	·	LUCAI	rubiic vvoiks
			_		
Pavisad 2024			Revised 2024		





Jurisdiction has this? (Yes/No)

Code Citation and Date (code chapter, name of plan, date of plan)

Authority (local, county, state, federal)

Individual / Department / Agency Responsible

How does this reduce risk?

The Municipal Stormwater Management Plan documents the Township's strategy for addressing stormwater management and stormwaterrelated impacts related to land development. This plan addresses the impacts of land development on groundwater recharge, stormwater quality, and stormwater quantity. The impacts are addressed by incorporating stormwater design and performance standards for new major development, defined as projects that disturb one of more acre of land or projects that would result in 0.25 acres or more of additional impervious coverage. These standards are intended to minimize the adverse impact of stormwater runoff on water quality and water quantity and the loss of groundwater recharge that provide base flow in receiving water bodies, The plan describes long-term operation and maintenance measures for existing and future stormwater facilities.

Stormwater Pollution Prevention Plan	Yes	Stormwater Pollution	Local	Township
		Prevention Plan, August 2019		Manager

How does this reduce risk?

The Stormwater Pollution Prevention Plan is used to identify all potential pollution sources that could come into contact with stormwater leaving a site. This plan includes the following elements:

- Site map and description
- Descriptions of activities that could cause pollution
- Best Management Practices & control measures for preventing pollution
- Procedures for conducting inspections and monitoring

Plans for keeping your SWPPP up to date					
Open Space Plan	Yes	Moorestown Master Plan Open	Local	Community	
		Space and Recreation Element,		Development,	
		December 2018		Planning Board	
How does this reduce risk?					
This element of the Master Plan addresses new ope	en space acquisit	ions and programs for open space	perseveration, incl	uding farmland	
preservation. Acquiring land for open space can re-	duce the Townsh	ip's vulnerability to certain hazards	, such as flooding.		
Urban Water Management Plan	No	-	-	-	
How does this reduce risk?					
Habitat Conservation Plan	No	-	-	-	
How does this reduce risk?					
Economic Development Plan	Yes	Moorestown Master Plan	Local	Community	
		Economic Element, November		Development,	
		2009		Planning Board	
How does this reduce risk?					
The Economic Development Plan is an element of I	Moorestown's M	aster Plan - the primary policy docu	ument that identifie	es future goals for	
growth, preservation, and development in the Tow	nship. The Econo	omic Development Plan emphasizes	continued econor	nic vitality for	
Moorestown and proactively focuses on supporting	g the local econd	omy's ability to adapt to changing o	onditions. The Plar	provides a	
framework for a coordinated effort to ease the effe	ects of the busine	ess cycle on the residents and busin	esses of Mooresto	wn.	
Shoreline Management Plan	No	-	-	-	
How does this reduce risk?					

How does this reduce risk?

Community Wildfire Protection Plan No

How does this reduce risk?

Public Works Community Forest Management Plan Community Forrest Local Yes Management Plan 2019

How does this reduce risk?

This plans serves to protect the biodiversity of the township in order to maintain a healthy natural environment.



	Jurisdiction has this? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Transportation Plan	Yes	Moorestown Master Plan Circulation Element, December 2018	Local	Community Development, Planning Board
How does this reduce risk? The Circulation Element of the Master Plan provide including the street network, streetscape, sidewalks grant from the NJ Department of Transportation, w	s, and pathways. vas adopted as a	The Bicycle Safety Plan, developed		loorestown,
Agriculture Plan How does this reduce risk?	No	-	-	-
Climate Action/ Resiliency/Sustainability Plan	No	-	-	-
How does this reduce risk?	-			ı
Tourism Plan	No	-	-	-
How does this reduce risk?				
Business/ Downtown Development Plan	No	-	-	-
How does this reduce risk?	-			l
Other: Coastal Vulnerability Study	Yes	Coastal Vulnerability Study,	Local	Community
How does this reduce risk? Despite its location three miles inland of the Delaw by the tidal Rancocas and North Branch Pennsauke	are River, Moore	August 2017 estown is susceptible to the effects	of coastal flooding,	Development as it is bordered
How does this reduce risk? Despite its location three miles inland of the Delaw by the tidal Rancocas and North Branch Pennsauke coastal vulnerability assessment (CVA). The CVA processes include properties, infrastructure, or natural might be particularly vulnerable to extreme events the previously described flooding scenario, what we	are River, Moore on creeks. Moore oject team reviev resources that a (see Table 1). Th ould happen to t	August 2017 estown is susceptible to the effects stown Township staff and residents wed the impact of this "CVA scenar re of high value to the community se project team determined whethe	of coastal flooding, sworked with DVRF io" on 47 assets in I and/or facilities and r each asset would	Development as it is bordered C to conduct a Moorestown. d populations that get flooded using
How does this reduce risk? Despite its location three miles inland of the Delaw by the tidal Rancocas and North Branch Pennsauke coastal vulnerability assessment (CVA). The CVA processes include properties, infrastructure, or natural might be particularly vulnerable to extreme events	are River, Moore on creeks. Moore oject team reviev resources that a (see Table 1). Th ould happen to t	August 2017 estown is susceptible to the effects stown Township staff and residents wed the impact of this "CVA scenar re of high value to the community se project team determined whethe	of coastal flooding, sworked with DVRF io" on 47 assets in I and/or facilities and r each asset would	Development as it is bordered C to conduct a Moorestown. d populations that get flooded using
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	Jurisdiction has this? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
How does this reduce risk?				
The Emergency Operations Plan aims to assess the	Township's abili	ty to respond to emergency and id	entifies recommend	dations to improve
its capacity to prepare and respond to future event	s. The plan addre	ess both short- and long-term reco	very.	
Public Health Plan	No	-	-	-
How does this reduce risk?				
Sheltering and Reception Plan	Yes	Moorestown EOP, 2023	Local	OEM
How does this reduce risk?				
Outlines processes and procedures for short terms	sheltering and re	eception.		

Development and Permitting Capability

The table below summarizes the capabilities of the Township of Moorestown to oversee and track development.

Table 9.23-3. Development and Permitting Capability

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits? • If yes, what department is responsible?	Yes	Construction Office
If you do not issue development permits, what is your process for tracking new development?	N/A	-
Are permits tracked by hazard area? (For example, floodplain development permits.)	Yes	Specifically, the floodplain.
Do you have a buildable land inventory? • If yes, please describe	Yes	The township maintains records that indicate the remaining buildable land.
Describe the level of build-out in your jurisdiction.	N/A	The Township of Moorestown is built out to most of its extent. The Township consists primarily of residentially zoned areas, including 16 different zones for residences, affordable multi-family, residence limited-commercial, residential/professional office, senior citizen residence, age-qualified residence, and residence town center. The remaining portions of the Township are commercial, business park, town center, retail, institutional, office, and mixed use. As noted in the Township's 2018 Master Plan Re-examination Report, the Township has amassed a considerable recreation and open space inventory, as well as the fact that some lands have been acquired by Burlington County for preservation, such as the County Agricultural Center on Centerton and Hartford Roads.





Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Township of Moorestown and their current responsibilities that contribute to hazard mitigation.

Table 9.23-4. Administrative and Technical Capabilities

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard
	(103/110)	mitigation)
Administrative Capability		
Planning Board	Yes	The Planning Board has nine members and two
		alternates. The purpose of the Planning Board is to:
		Advise and recommend action on development
		regulations and policies
		 Assemble information as part of a continuous
		planning process
		Prepare a master plan
		Review and decide applications for development
Zoning Board of Adjustment	Yes	The Zoning Board of Adjustment consists of seven
		members. The Board takes action on development
		applications that do not meet the Moorestown
DI : D		Township code(s) and require a Use or Bulk Variance.
Planning Department	Yes	This Division is located in the Department of
		Community Development and houses the Planning
Mitigation Planning Committee	No	Board, to which it provides guidance and support to.
Mitigation Planning Committee Environmental Board/Commission	No	The Environmental Advisory Committee advises and
Environmental Board/Commission	Yes	The Environmental Advisory Committee advises and assists the Township Council, Manager, Planning
		Board, Zoning Board and any other municipal
		department, committee, or officials on environmental
		issues. The Committee consists of six regular members
		and two alternate members.
Open Space Board/Committee	Yes	The Township's Open Space Advisory Committee is
<u> </u>		formed of 9 members. The Committee assists with
		updating the Open Space element of the Master Plan,
		sponsor's various Township events, promotes the
		conservation of land, and performs an inventory of
		open space and recreational land within the Township.
Economic Development Commission/Committee	Yes	The Economic Development Advisory Committee
		(EDAC) is responsible for promoting the advantages of
		the township of Moorestown for business, commercial
	, -	and industrial users.
Public Works/Highway Department	Yes	The Public Works Department consists of the following
		Divisions – Water and Sewer, Roads and Property,
		Sanitation, and General Services. Duties of the full
		department include:
		- Maintain and operate the Township's water
		and sewer systems and service fire hydrants.





Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
		 Maintain, repair, construct and reconstruct public roads and streets of the Township. Maintain, repair, and provide services to the playgrounds and trim, plant and care for shade trees, public parks, and greens. Maintain township streets and roads in a clean and safe condition for passage, free of obstructions and hazards, and remove snow and ice as required. Operate and maintain township services for the collection and disposal of domestic garbage, trash, and other wastes. Operate, maintain, and repair public parking areas and facilities. Maintain and repair township buildings and properties and provide custodial services. Provide for the care, storage, use and disposition of motor vehicles and motorized equipment of the Township. Provide technical and mechanical services required by any department. Receive applications for and issue permits as provided by ordinance.
Construction/Building/Code Enforcement Department	Yes	The Department of Community Development includes the Offices of Construction, Planning, and Zoning; Planning Board; and Zoning Board of Adjustment. The Department is also the contact for the following Township Committees:





Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Emergency Management/Public Safety Department	Yes	The Township of Moorestown Office of Emergency Management exists to serve the emergency needs of the community whether it be a natural disaster, major storm system, long-term power outages, chemical or hazardous material incident or terrorist threat.
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)	Yes	The Township utilizes Nixle and Civic Ready for warnings, advisories, alerts, and notifications.
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	Yes	The Public Works Department consists of the following Divisions – Water and Sewer, Roads and Property, Sanitation, and General Services. Relevant duties of the full department include: - Maintain and operate the Township's water and sewer systems and service fire hydrants Maintain, repair, construct and reconstruct public roads and streets of the Township Maintain, repair, and provide services to playgrounds and trim, plant and care for shade trees, public parks, and greens. Maintain township streets and roads in a clean and safe condition for passage, free of obstructions and hazards, and remove snow and ice as required.
Mutual aid agreements	Yes	County Mutual Aid agreements for response grids for Police, Fire and EMS services.
Human Resources Manual e.g., Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	Yes	No job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk.
Other: Better Together Committee	Yes	The purpose of the Committee is to advise Township Council on how the township can better protect and celebrate diversity and equity while ensuring inclusion among our residents, businesses, and visitors. The Committee will promote an innovative, engaged, and informed community and will advise and assist the Township Council, Manager, and any other municipal board, department, committee, or municipal officials on matters involving diversity, equity, and inclusion in our community, with the purpose of ensuring that cultural, economic, and ethnic differences are considered in the decision-making process.
Other: Sustainable Moorestown Green Team	Yes	The mission of the Sustainable Moorestown Green Team is to lead and coordinate the Township's efforts to obtain certification in the Sustainable Jersey Municipal Certification Program.
Other: Moorestown Creates!	Yes	Moorestown Creates! (TM), a subcommittee of Sustainable Moorestown was founded to connect with, advocate for and help build a unified voice for the





Resources	Available?	Comments
	(Yes/No)	(available staff, responsibilities, support of hazard
		mitigation)
		community of creative people living and working in
		Moorestown, New Jersey.
		Moorestown Creates!(TM) seeks to increase awareness
		in the Moorestown community about the quality and
		caliber of the many artists in all genre who work and
	V	call Moorestown their home.
Other: Tree Planting and Preservation Committee	Yes	It is the mission of the Tree Planting and Preservation
		Committee to encourage and assist the community of
		Moorestown to successfully implement a tree
		management program by providing information and
		assistance to the Township Council and Management
Other: Low and Mederate Income Housing	Yes	to sustain and enhance our community forest resource. The Low- and Moderate-Income Housing Oversight
Other: Low- and Moderate-Income Housing Oversight Committee	res	Committee consists of five members appointed by the
Oversight Committee		Township Council. Committee duties include to advise
		and furnish assistance from time to time to the
		Township Council on matters regarding affordable
		housing. The Committee will meet on an as needed
		basis as requested by the Township Council.
Other: Recreation Advisory Committee	Yes	The Recreation Advisory Committee is located within
·		the Department of Parks and Recreation. The
		Committee consult with and advise the Council,
		Manager and Director from time to time with respect
		to recreational policies, programs, and activities within
		the Township.
Other: Appearance Committee	Yes	The Appearance Committee reviews applications, holds
		hearings, and makes recommendations concerning the
		proposed appearance of external architectural features
		of buildings or structures, other than single-family or
		two-family houses. In the case of an application for site plan review, conditional use or use variance,
		recommendations will be forwarded to the Planning
		Board or Zoning Board of Adjustment, depending on
		jurisdiction. The Committee also will study exterior
		design drawings, landscape and site plans and
		materials for any proposed public works or public
		improvements in the Town Center and to make
		recommendations; advise the Township Council,
		Manager or any township department, board, or
		commission on architectural or aesthetic concerns
		within any area of the Township; recommend
		legislation to the Township Council; and review
		applications, hold hearings and make
		recommendations concerning the proposed
		demolition or removal of any principal or accessory
Tachuical/Staffing Canability		building.
Technical/Staffing Capability		





Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Planners or engineers with knowledge of land development and land management practices	Yes	Engineering consulting firm provides services to township.
Engineers or professionals trained in building or infrastructure construction practices	Yes	Engineers are contracted through Pennoni. Construction Office.
Planners or engineers with an understanding of natural hazards	Yes	Engineers are contracted through Pennoni
Staff with expertise or training in benefit/cost analysis	Yes	Pennoni is contracted. Township CFO and Manage also possess these capabilities.
Professionals trained in conducting damage assessments	Yes	DA Annex Director and DA team are preassigned and tasked with conducting damage assessments post disaster.
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	Yes	Public works department employees individuals trained in GIS and HAZUS
Environmental scientist familiar with natural hazards	Yes	Emergency Manager
Surveyor(s)	Yes	Engineers are contracted through Pennoni
Emergency Manager		The Township of Moorestown Office of Emergency Management exists to serve the emergency needs of the community whether it be a natural disaster, major storm system, long-term power outages, chemical or hazardous material incident or terrorist threat. Jim Carruthers is the Township's OEM Coordinator.
Grant writer(s) Consider the following - Are data and maps from the HMP used to support documentation in grant applications?	Yes	Pennoni is contracted.
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	Yes	Township has their own water/wastewater treatment facility, which is managed by a separate Water Department.
		Lockhead Martin and OEM work together in the LEPC for hazardous material responses.

How do your administrative/technical capabilities contribute to risk reduction in your community?

Having field experts at the townships disposal across multiple discipline adds to the list of capabilities that the township possesses. Having a diversified technical team allows for the inclusion of different perspectives to hazards faced by the township.

Fiscal Capability

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

Table 9.23-5. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	Yes
Capital improvements project funding	Yes

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Financial Resources	Accessible or Eligible to Use? (Yes/No)
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas, or electric service	Yes
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	No
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	Yes
Open Space Acquisition funding programs	Yes
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	No

Education and Outreach Capability

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

Table 9.23-6. Education and Outreach Capabilities

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	Yes	Hazard warning and communication flows through two avenues in the township, PIO utilizes township social media for outreach while PD PIO amplifies messaging.
Personnel skilled or trained in website development	Yes	Deputy Public Information Officer is trained in website development.
Hazard mitigation information available on your website	Yes	This information can be found on the Emergency Management webpage.
Social media for hazard mitigation education and outreach	Yes	The Township Government and its Police Department have social media accounts which have been, and can continue to, post information relating to hazard mitigation education and outreach.
Citizen boards or commissions that address issues related to hazard mitigation	Yes	Better Together Committee, Sustainable Moorestown Green Team, Tree Planting and Preservation Committee, Appearance Committee
Warning systems for hazard events	Yes	The Township utilizes Nixle and Civic Ready for warnings, advisories, alerts, and notifications.
Natural disaster/safety programs in place for schools	Yes	Monthly drills; ASHE development with the school district. School district has a safety committee.
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? • If yes, please describe.	Yes	Social Media, NIXLE and CIVIC Ready





Community Classifications

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

Table 9.23-7. Community Classifications

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	Moorestown Fire District 1 – 3/3y Moorestown Fire District 2 - 3	2017 2017
Storm Ready Certification	No	-	-
Firewise Communities classification	No	-	-
New Jersey Sustainable Jersey Community	Yes	Silver	2023-2026
Other	No	-	-

Note:

N/A Not applicable
NP Not participating
- Unavailable

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). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction's capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.

Table 9.23-8. Adaptive Capacity

Hazard	Adaptive Capacity – Strong/Moderate/Weak
Dam Failure	Moderate
Disease Outbreak	Moderate
Drought	Moderate
Earthquake	Weak
Extreme Temperatures	Strong
Flood	Moderate
Severe Weather	Strong
Severe Winter Weather	Strong
Wildfire	Moderate





The Township of Moorestown indicated the following:

Mutual aid would be relied upon for responses.

9.23.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP.

NFIP Floodplain Administrator (FPA)

Joseph LaRocca, Construction Official

National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Township of Moorestown.

Table 9.23-9. NFIP Summary

Active Poli	cies	Total Premium + Policy Fee	Number of Losses	Total Net Payment	Repetitive Loss Properties	
93		\$73,698	55	\$250,625.01	4	
Source:	NFIP 2023					
Notes:	Data current as of October 2023					
RL	Repetitive Loss					
SRL	Severe Repetitive Loss					
RL FMA Definition	Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the					
	average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.					
RL NFIP Definition	Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance					
	Program (NFIP) within any rolling ten-year period, since 1978.					

Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Township of Moorestown.

Table 9.23-10. NFIP Summary

NFIP Topic	Comments	
Flood Vulnerability Summary		
 Describe areas prone to flooding in your jurisdiction. Do you maintain a list of properties that have been damaged by flooding? 	The Pennsauken creek on the southern border of the town is subject to flooding. The Pompeston creek which runs through the center of Moorestown is prone to flooding. We do not maintain a list of properties.	
Do you maintain a list of property owners interested in flood mitigation? • How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?	No	
Are any RiskMAP projects currently underway in your jurisdiction? • If so, state what projects are underway.	No	





NFIP Topic	Comments
 How do you make Substantial Damage determinations? How many were declared for recent flood events in your jurisdiction? 	The cost of work calculated in accordance with NFIP standards is compared to the assessed value
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? • If there are mitigated properties, how were the projects funded?	0
Do your flood hazard maps adequately address the flood risk within your jurisdiction? • If not, state why.	Yes
NFIP Compliance What local department is responsible for floodplain management?	Construction
	Construction
Are any certified floodplain managers on staff in your jurisdiction?	Yes
Do you have access to resources to determine possible future flooding conditions from climate change?	No
Does your floodplain management staff need any assistance or training to support its floodplain management program? • If so, what type of assistance/training is needed?	No. The administrator is trained and receives training annually.
Provide an explanation of NFIP administration services you provide (e.g. permit review, GIS, education/outreach, inspections, engineering capability)	Permit review and inspections
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	The cost of work calculated in accordance with NFIP standards is compared to the assessed value
What are the barriers to running an effective NFIP program in the community, if any?	As the construction official and CFM, there just isn't enough time to dedicate to flood plain management
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? • If so, state the violations.	One – 2801 Riverton Road NJDEP has issued a violation for building in the floodway. This was actually in an adjacent township but the house spans both townships.
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	Spring 2023
 What is the local law number or municipal code of your flood damage prevention ordinance? Have you adopted NJDEP's Model Code Coordinated Ordinance? What is the date that your flood damage prevention ordinance was last amended? 	Township code chapter 83 Yes, Moorestown has adopted NJDEP's Model Code Coordinated Ordinance Adopted May 13 th 2024
Does your floodplain management program meet or exceed minimum requirements? • If exceeds, in what ways?	Meets minimum code requirements
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	Yes
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	No





9.23.5 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 appreciating a jurisdiction's overall risk to its hazards of concern. The table below summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.

Table 9.23-11. Number of Building Permits for New Construction

Type of Development	20	018	2	019	20	020	20	021	2	022
Number of I	Building	Permits f	or New (evious HM	P* (total/w	rithin regu	latory
			1		floodplain)				
	Total	Within	Total	Within	Total	Within	Total	Within	Total	Within
		SFHA		SFHA		SFHA		SFHA		SFHA
Single Family	6	0	16	0	13	0	9	0	24	0
Multi-Family	0	0	0	0	0	0	0	0	1	0
Other (commercial, mixed-use, etc.)	0	0	0	0	1	0	0	0	1	0
Total Permits Issued	6	0	16	0	14	0	9	0	26	0

SFHA Special Flood Hazard Area (1% annual chance flood event)

Table 9.23-12. Recent and Expected Future Development

			•		•
Property or Development Name	Type (e.g., Res., Comm.)	# of Units / Structures	Address and Parcel ID	Known Hazard Zone(s)	Description/Status of Development
	Re	cent Major Dev	elopment from 2019	to Present	:
Parkers bend	Residential	135	600 Centerton Rd.	None	Completed
Domenica Foundation	Residential	150	Block 100, Lot 1.09	None	Plan Approval Period
The Pearl	Residential	375	400 W Route 38, Block 3000	None	Construction
Harper Drive Apartments	Residential	76	Block 3201, Lot 3	None	Construction
Moorestown Family Apartments	Residential	152	Block 7401, Lot 1&2	None	Pre-Approval
The Enclave at Moorestown	Residential	76	Block 8801. Lot 3.01	None	Plan Approval Period
	Known or A	nticipated Majo	r Development in the	Next Five	(5) Years

9.23.6 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 4 (Risk Assessment) provide detailed information regarding each plan participant's vulnerability to the identified hazards. Section 4.2 (Methodology) and Section 4.4

^{*} Only location-specific hazard zones or vulnerabilities identified.



(Hazard Ranking) provide detailed summaries for the Township of Moorestown's risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Maps were generated only for those hazards that can be identified clearly using mapping techniques and technologies and for which the Township of Moorestown has significant exposure. The maps also show the location of potential new development, where available.



Figure 9.23-1. Township of Moorestown Flood and Sea Level Rise Hazard Area Extent and Location Map

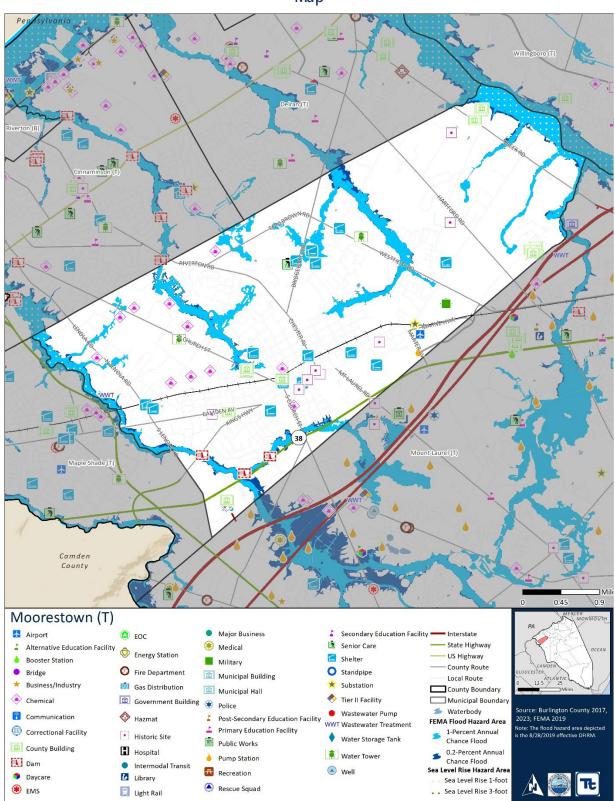
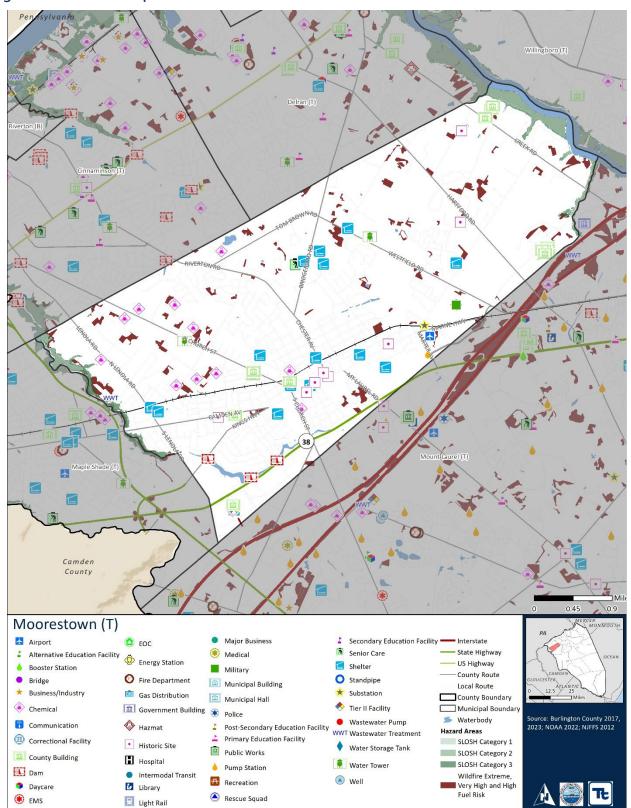






Figure 9.23-2. Township of Moorestown SLOSH and Wildfire Hazard Area Extent and Location Map







Hazard Event History

Burlington County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 4 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Township of Moorestown's history of federally declared (as presented by FEMA) and significant hazard events [as presented in NOAA-National Centers for Environmental Information (NCEI)] is consistent with that of the County. The table below provides details regarding municipal-specific loss and damages the Township of Moorestown experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

Table 9.23-13. Hazard Event History Since 2019

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Closures, Damages, and Losses
March 6-7, 2018	Severe Winter Storm (DR- 4368)	Yes Banding and thundersnow produced pockets of heavier snow in the western sections of the area, closer to the Delaware River. The snow contained large amounts of liquid, making it heavy and wet. This resulted in downed trees, limbs, and wires, leading to numerous power outages across portions of New Jersey.		Trees and wires downed from snowfall.
August 13, 2018	Flash Flood	No	Heavy rain resulted in widespread flash flooding. Heavy rain resulted in widespread roadway flooding in Palmyra, Maple Shade, and Moorestown. Sections of Route 73 and Route 38 were closed due to flooding.	Roadway flooding and road closures.
June 19-20, 2019	Flash Flood			Roadway flooding and road closures.



Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Closures, Damages, and Losses
July 22, 2019	Thunderstorm Wind	No	Severe weather developed producing widespread damaging winds. Wind gusts were recorded at 60 miles per hour. Several trees, large tree branches and powerlines were downed. A tree fell on a house in Moorestown with an occupant inside.	Trees and wires downed.
August 19, 2019	Thunderstorm Wind	No	Scattered thunderstorms developed; some with the threat of damaging winds. Trees and powerlines were downed in Moorestown, Westampton, and Mansfield; a tree collapsed onto a house in Moorestown.	Trees and wires downed.
January 20, 2020 – May 11, 2023	Covid-19 Pandemic (EM-3451-NJ, DR-4488-NJ)	Yes	Burlington County accounted for 115,985 positive cases of COVID-19 in the State of New Jersey, and 1,265 of the reported deaths. A total of 991,269 vaccinations were delivered in the County to both residents and non-residents.	First responder protocols were instated for pandemic responses.
June 3-4, 2020	Thunderstorm Wind	No	A derecho developed then moved rapidly, producing damaging winds more than 60 miles per hour. A downed tree was reported on the New Jersey Turnpike north of State Highway 73 near Moorestown. A 72 mile per hour gust was recorded in Moorestown. Numerous trees were downed in Willingboro, Beverly, Delran, Riverside, Westampton, Burlington City, and Moorestown. A tree fell on a car, also landing on a section of a home, near Moorestown; the house had no significant damage.	Downed trees.
July 6, 2020	Flash Flood	No	Thunderstorms brought heavy rain; totals were as high as 2 to 4 inches fell. Flash flooding occurred in Moorestown.	Flash flooding occurred.





Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Closures, Damages, and Losses
August 4, 2020	Tropical Storm Isaias (DR-4574-NJ)	Yes	Tropical Storm Isaias brought high winds and heavy rain to Burlington County; some areas of the County reported more than 6 inches over several hours. Burlington County Central Communications fielded over 400 emergency calls and 1,400 non-emergency calls, many for flooded basements and residences.	Areas of flooding in the Township.
February 7, 2021	Winter Storm, Winter Weather	No	A short period of snow occurred, producing several inches of snow, with local variations in the snow totals. Several reports of 4 to 5 inches of snow were received, including a report of 5.1 inches of snow in Moorestown.	No damages or losses were incurred in the municipality as a result of this event.
April 29, 2021	Thunderstorm Wind	No	Thunderstorms developed and resulted in reports of damaging wind. Multiple trees and powerlines were downed in Evesham, Moorestown, and Mount Holly.	Trees and wires downed.
June 14, 2021	Thunderstorm Wind	No	Strong and severe storms posed a risk of damaging winds along with some hail. Multiple trees and powerlines were downed in Bass River, Moorestown, Florence, and Bordentown.	Trees and wires downed.
July 6, 2021	Thunderstorm Wind	No	Storms produced damaging winds and some hail. Wires were downed in Moorestown.	Wires downed
July 12, 2021	Thunderstorm Wind	No	Scattered to widespread thunderstorms developed; some of the storms became severe. Trees and wires downed were reported in Moorestown, Maple Shade, Springfield, Willingboro, Florence, Beverly, Fieldsboro, Mansfield, Palmyra, and Riverton.	Trees and wires downed.



Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Closures, Damages, and Losses
July 21, 2021	Thunderstorm Wind	No	Widespread thunderstorms developed. Several storms became severe, posing a threat for both damaging winds and large hail. Large tree limbs were downed and blocked Bridgeboro Rd near the Westfield Rd intersection in Moorestown.	Large tree limbs were downed and blocked Bridgeboro Road.
September 1-3, 2021	Remnants of Hurricane Ida (EM-3573-NJ, DR-4614-NJ)	Yes	The remnants of Hurricane Ida produced heavy rainfall, flash floods, and a tornado (EF-1) that moved through Edgewater Park, Beverly, Burlington Township and Burlington City. Rainfall totals exceed 3 inches in parts of County; 4 water rescues occurred due to flash flooding.	Areas of flooding in the Township.
May 27, 2022	Thunderstorm Wind	No	Storm development produced instances of damaging wind. A large tree was split on Harper Drive in Moorestown.	A large tree was split on Harper Drive.
April 1, 2023	Tornado	No	Tornado touched down and impacted east end of town. Communication and power lines were damaged because of trees being knocked over. Power was lost to areas for up to 24 hours.	Public assistance total \$4,009 for storm event.
August 11, 2023	Rain/ Flash Flood	No	Between 1.5 and 2.5 in of rain over a short period caused flash flooding and pooling in some areas. W Central, Ramble wood Road, Wagon Bridge Run.	Flooding and water pooling.
December 23, 2022	Winds	No	Winds caused power to be knocked out for approx. 500 residents, unusually cold temps in single digits warranted response from OEM.	Emergency Messaging employed by county and local OEM.
September 6, 2023	In house shelter in place, critical care facility	No	Commercial vehicle fire damaged power lines, knocking out power to critical care facility.	EMS, Fire and OEM worked with facility to relocate residents to common area where AC was working with backup generator.

Source: FEMA 2023, NOAA NCEI 2023

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Notes:

DR Major Disaster Declaration (FEMA)

EM Emergency Declaration (FEMA)

FEMA Federal Emergency Management Agency

N/A Not applicable

Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 4 (Risk Assessment) have detailed information regarding each plan participant's vulnerability to the identified hazards. The following summarizes the Township of Moorestown's risk assessment results and data used to determine the hazard ranking.

Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 4 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 4.4 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each municipality ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Township of Moorestown. The Township of Moorestown reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Township of Moorestown indicated the following:

- The Dam Failure hazard ranking should be decreased from "Medium" to "Low" due to the three Category 3 dams being maintained and managed. Furthermore, all dams are annually surveyed and studied.
- The Flood hazard ranking is correctly ranked at "Low," however the Township does experience areas
 of flash flooding, especially in low-lying drainage areas.

Table 9.23-14. Hazard Ranking Input

Hazard	Hazard Ranking – High/Medium/Low
Dam Failure	Low
Disease Outbreak	Medium
Drought	Medium
Earthquake	Low
Extreme Temperatures	Medium
Flood	Low
Severe Weather	High



Hazard	Hazard Ranking – High/Medium/Low
Severe Winter Weather	Medium
Wildfire	Low

Critical Facilities

The table below identifies critical facilities and lifelines in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus-MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

Table 9.23-15. Potential Flood Losses to Critical Facilities and Community Lifelines

Name	Туре	Ехро	osure
		1% Event	0.2% Event
Hooten's Creek Dam	Dam	Yes	Yes
Lower Hooten's Dam	Dam	Yes	Yes
Moorestown Dam	Dam	Yes	Yes

Source: Burlington County 2023; Burlington County Planning Partnership 2023; FEMA 2019

Identified Issues

After review of the Township of Moorestown's hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Township of Moorestown identified the following vulnerabilities within their community:

- Major disaster events can result in large amounts of debris that overwhelm normal trash collection
 operations. Depending on the amount generated, temporary staging areas for debris collection
 may be needed. The municipality does not have a disaster debris management plan in place.
 During a disaster that results in debris, the municipality A plan with outlined responsibilities is
 needed to adequately address post-disaster cleanup operations.
- Officials in NFIP-participating communities are responsible for regulating all development in SFHAs by issuing permits and enforcing local floodplain requirements, including Substantial Damage, for the repairs of damaged buildings. The municipality does not have a Substantial Damage Management Plan in place, nor do they have a formal process in place when conducting substantial damage determinations. The municipality is in need of a formal process and plan to provide a framework for conducting such inspections and determinations.
- Moorestown Township has three (3) dams within its jurisdictional boundaries. Despite having the
 capability to respond to a dam failure, there is currently no written plan on how the Township
 would utilize its current capabilities to respond to a dam failure event.
- The Township had adequate outreach for the COVID-19 pandemic and Influenza but has not focused on outreach related to other vectors which could cause disease.
- The Township has a water conservation ordinance (Chapter 175), which encourages and supports
 water conservation efforts and was amended in October 2016 to be enforced year-round. The
 former ordinance was not in effect year-round, which may cause confusion to residents and result
 in fines.



- A portion of the Township is old, historic buildings. The property owners, and residents of the Township in general, may not be aware of how to safely prepare for an earthquake, and how to respond.
- The Township does not have its own cooling or warming center(s) to provide residents a safe location to cool or warm themselves during extreme temperature or severe winter weather events.
- Critical facilities in the Township may not have a back-up emergency generator, transfer switch, or electrical cords, which may impact their continuity of operations during an emergency.
- Portions of the Township are located within very high and high fuel risk areas for wildfires. The
 residents of the Township may not be aware of wildfire prevention methods.
- The area of Winthrop Avenue and Wagon Bridge Run repetitively flood due to waters from the Pennsauken Creek.
- Recurring flooding occurs at the intersection of New Albany Road and Glen Avenue, the area of New Albany Road, and West Central Avenue, between Dawson Street and North Washington Avenue.
- The Township experiences flooding in the in the area of New Albany Road and West Central Avenue (Pompeston Creek) and Winthrop Avenue and Wagon Bridge Run (Pennsauken Creek).
 Instances of flooding in these areas have resulted in significant roadway flooding, which has previously resulted in individuals being rescued from the swift waters. The Fire Department, who performs water rescues, are not trained in Swiftwater Rescues.
- The Township does not have a stockpile or surplus of personal protective equipment (PPE) should a disease outbreak occur.

9.23.7 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritizes actions to address over the next five years.

Past Mitigation Initiative Status

The following table indicates progress on the community's mitigation strategy identified in the 2019 HMP. Actions that are in progress are carried forward and combined with new actions as part of this plan update and are included in the tables with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such and previously presented in the 'Capability Assessment' earlier in this annex.



Table 9.23-16. Status of Previous Mitigation Actions

	•		Responsible What is the status? Party (e.g., In Progress, No Progress, Ongoing		If you did not complete the action, should the action be included in the 2024 HMP (i.e., there is still a need, this is still a priority)?			
Project#			Capability, or Completed) If in progress or completed, please describe the funding source, cost and who is implementing.	Yes/No	If Yes, please describe the original problem (i.e., hazard, location, historic losses)	If Yes, identify the responsible department/person to implement the project.		
MT-1 (Former MT-1)	Conduct an evaluation of backyard residential flooding on the south side of Winthrop Ave. from the Pennsauken Creek, including studies on: Dredging existing creek bed Bulkheading creek bed Raising affected residences Buying out affected residences	Lead: Community Development Support: Twp. DPW, NJOEM, FEMA	No Progress	Yes	The area of Winthrop Avenue from the Pennsauken Creek is prone to flooding.	Lead: Community Development Support: Twp. DPW, OEM		
MT-2	During future updates of the Master Plan, Transportation Plan, Capital Improvements Plan, the Emergency Operation Plan, or other plans, work to integrate hazard mitigation principles and recommendations into the plans. Additionally, use these hazard mitigation principles and plan recommendations to update local building and zoning codes to create a more resilient community.	Municipality	Ongoing	No	-	-		



Additional Mitigation Efforts

In addition to the mitigation initiatives completed in the table above, the Township of Moorestown identified the following mitigation efforts completed since the last HMP:

- First responder protocols were instated for pandemic responses.
- The Township has amended its Zoning and Building Codes in 2023.
- The Township launched its newsletter, "Moore News," in which the Emergency Management Coordinator provides information on various hazards, preparedness tips, and guidance.

Since the adoption of the County's first HMP, the Township of Moorestown has made significant mitigation progress in the following areas:

- Regulations and Planning
- **Emergency Response**
- **Education and Outreach**

Proposed Hazard Mitigation Initiatives for the HMP Update

The Township of Moorestown participated in a mitigation action workshop in October 2023 and was provided 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 Flood prone Structures' (March 2007) and FEMA 'Mitigation Ideas – A Resource for Reducing Risk to Natural Hazards' (January 2013).

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide range of activities and mitigation measures selected.

Hazard **FEMA CRS LPR NSP** SP SIP **EAP** PR PP PΙ NR Dam Failure Χ Χ Χ Χ Χ Χ Disease Outbreak Χ Χ Χ Χ Drought Χ Χ Χ Χ Earthquake

Table 9.23-17. Analysis of Mitigation Actions by Hazard and Category

Note: Mitigation categories are described below the Mitigation Initiatives.



The following pages list the specific mitigation initiatives Township of Moorestown would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in Township priorities.



Action 2024-Moorestown-01. Disaster Debris Management Plan

Lead Agency:	Public Works			
Supporting Agencies:	OEM			
Hazard(s) of Concern:	Dam Failure, Drought, Earthquake, Extreme Temperature, Flood, Severe Weather, Severe Winter Weather, Wildfire			
Description of the Problem:	Major disaster events can result in large amounts of debris that overwhelm normal trash collection operations. Depending on the amount generated, temporary staging areas for debris collection may be needed. The municipality does not have a disaster debris management plan in place. During a disaster that results in debris, the municipality A plan with outlined responsibilities is needed to adequately address post-disaster cleanup operations.			
Description of the Solution:	The municipality will develop a disaster debris management plan. This plan will establish procedures and guidelines for managing disaster debris in a coordinated, environmentally responsible, and cost-effective manner. The plan will identify responsibilities for execution of the plan. The plan will align with permitted temporary collection areas.			
Estimated Cost:	Staff time			
Potential Funding Sources:	Municipal budget			
Implementation Timeline:	Within 5 years			
Goals:	5, 6			
Benefits:	The action will result in increased quicker and more efficient cleanup after disaster events.			
Impact on Socially Vulnerable Populations:	N/A			
Impact on Future Development:	N/A			
Impact on Critical Facilities/Lifelines:	N/A			
Impact on Capabilities:	The action will result in increased pos	t disaster capabilities.		
Climate Change Considerations:	Climate change may result in an increase in the frequency and severity of weather-related disaster events. This action will increase the capabilities to respond to these events.			
Mitigation Category:	Local Plans and Regulations			
CRS Category:	Emergency Services			
Priority:	High			
Alternatives:	Action	Evaluation		
- Titel Hutives.	No Action	-		

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Rely on federal cleanup	These services may or may not be available
Rely on state cleanup	These services may or may not be available





Action 2024-Moorestown-02. Substantial Damage Management Plan

Lead Agency:	Floodplain Administrator	
Supporting Agencies:	Public Works, OEM, Construction Department	
Hazard(s) of Concern:	Dam Failure, Drought, Earthquake, Extreme Temperature, Flood, Severe Weather, Severe Winter Weather, Wildfire	
Description of the Problem:	Officials in NFIP-participating communities are responsible for regulating a development in SFHAs by issuing permits and enforcing local floodplain requirements, including Substantial Damage, for the repairs of damage buildings. After any disaster event, they must:	
	 Determine where the damage occurred within the community and if the damaged structures are in an SFHA. Determine what to use for "market value" and cost to repair; uniformly applying regulations will protect against liability and promote equitable administration. Determine if repairing plus improving the damaged structure equals or exceeds 50% of the structure's pre-damage value. Require permits for floodplain development. The municipality does not have a Substantial Damage Management Plan in place, nor do they have a formal process in place when conducting substantial damage determinations. The municipality is in need of a formal process and plan to provide a framework for conducting such inspections and determinations. 	
Description of the Solution:	The municipality will develop a Substantial Damage Management Plan, following the six step planning process in 2021 <i>Developing a Substantial Damage Management Plan</i> (https://crsresources.org/files/500/developing subst damge mgmt plan.pdf). This plan will outline responsibilities for Substantial Damage determinations, determining market value, and permit approval processes following a disaster event.	
Estimated Cost:	Low	
Potential Funding Sources:	Municipal budget	
Implementation Timeline:	Within 5 years to develop the plan; ongoing to maintain and update the plan	
Goals Met:	1, 2, 5, 7	
Benefits:	This plan will provide a process in making Substantial Damage Determinations and allow the municipality to make these determinations and meet NFIP requirements more quickly.	
Impact on Socially Vulnerable Populations:	Substantially damaged structures are required to be rebuilt to be compliance with current codes. Socially vulnerable populations may not have the financial means to make these improvements. This action may allow for the identification of potential resources to address substantial damages to structures owned by socially vulnerable populations.	





Impact on Future	A Substantial Damage Management Plan would include all existing, current,		
Development:	and future development in the municipality.		
Impact on Critical	A Substantial Damage Management Plan would include all critical facilities and		
Facilities/Lifelines:	lifelines in the municipality.		
Impact on Capabilities:	This action improves disaster recovery capabilities.		
Climate Change	Climate change is likely to increase the intensity and frequency of many		
Considerations:	climate related disaster events. This action provides additional planning for disaster recovery.		
Mitigation Category:	Local Plans and Regulations		
CRS Category:	Preventative Measures		
Priority:	High		
Alternatives:	Action	Evaluation	
	No Action	-	
	Rely on state or federal resources	Resources may not be available	
	following disaster events	during major widespread events	
	Establish MOUs with outside agencies	A plan outlining responsibilities is	
	to conduct Substantial Damage	still necessary to prevent missing	
	Determinations	important requirements	



Action 2024-Moorestown-03. Dam Failure Response and Recovery Plan

Lead Agency:	OEM	
Supporting Agencies:	Engineering, DPW, Dam Owners, Fire Department	
Hazard(s) of Concern:	Dam Failure, Flood	
Description of the Problem:	Moorestown Township has three (3) dams within its jurisdictional boundaries. Despite having the capability to respond to a dam failure, there is currently no written plan on how the Township would utilize its current capabilities to respond to a dam failure event.	
Description of the Solution:	Public Works, Office of Emergency	ners of each dam, the Department of Management, Fire Department, and ces to respond to a dam failure safely,
Estimated Cost:	Medium	
Potential Funding Sources:	Municipal budget	
Implementation Timeline:	Within 5 years	
Goals Met:	1, 6, 7	
Benefits:	This action will improve the safety and security of those who live within the dam inundation areas of the Hooten's Creek Dam, Lower Hooten's Creek Dam and Moorestown Dam and increase the resilience of responding agencies.	
Impact on Socially Vulnerable Populations:	The action will result in better preparedness within the Special Flood Hazard Area and inundation areas where significant risk to socially vulnerable populations exists.	
Impact on Future Development:	During the planning process to create this plan, the evaluation of each of the dams and current Township capabilities may influence how and where future dams are developed.	
Impact on Critical Facilities/Lifelines:	Dams are considered a critical facility. This action will create a response plan should the critical facility fail.	
Impact on Capabilities:	This action will improve planning and response capabilities through better outlining of responsibilities and administrative procedures.	
Climate Change Considerations:	Climate change may result in an increase in the frequency and severity of weather-related disaster events, which may contribute to the likelihood of a dam failure event. This action will increase the capabilities to respond to these events.	
Mitigation Category	Local Plans and Regulations	
CRS Category	Preventative Measures	
Priority	Medium	
Alternatives:	Action	Evaluation

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No Action	The Township will assess the situation only on scene
Rely on state or federal resources following disaster events	Resources may not be available during major widespread events
Rely solely on dam owners to create and write response plan	Dam owners may not have the capability or understanding to write a thorough response plan





Action 2024-Moorestown-04. Disease and Health Risk Outreach

Lead Agency:	OEM
Supporting Agencies:	Burlington County Public Health
Hazard(s) of Concern:	Disease Outbreak
Description of the Problem:	The Township had adequate outreach for the COVID-19 pandemic and Influenza but has not focused on outreach related to other vectors which could cause disease.
Description of the Solution:	In partnership with the Burlington County Public Health Department, create outreach materials on Lyme disease, West Nile Virus, Coronavirus, and Influenza, and use what is already available, and share the materials to the public. Methods of distribution may include Township events, the Township newsletter, social media, the Township website, and having the materials on display for the public at Township libraries and offices.
Estimated Cost:	Low
Potential Funding Sources:	Municipal budget
Implementation Timeline:	Within 1 year
Goals Met:	1, 3, 4, 7
Benefits:	This action will inform all populations on how to prevent and protect themselves from the identified diseases.
Impact on Socially Vulnerable Populations:	Socially vulnerable populations are often the most at-risk to the disease outbreak hazard due to pre-existing conditions and socioeconomic status. This action will inform all populations, including the socially vulnerable, of how to prevent and protect themselves from the identified diseases.
Impact on Future Development:	N/A
Impact on Critical Facilities/Lifelines:	N/A
Impact on Capabilities:	N/A
Climate Change Considerations:	The relationship between climate change and increase in infectious diseases is difficult to predict with certainty, but there are scientific linkages between the two. A warming climate is likely to increase the length of the insect season, increasing the potential rates of transmission of insect borne disease. This action will inform residents of the risks associated with various diseases and how to prevent contraction.
Mitigation Category	Education and Awareness Programs
CRS Category	Public Information
Priority	Medium

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Alternatives:	Action	Evaluation
	No Action	The public will need to rely on their own research and knowledge for disease prevention and protection
	Rely on state or federal resources	Resources may be generalized and not specific to the risks in Burlington County
	Use only a few methods for distribution	Using only a few methods of distribution may hinder socially vulnerable populations from receiving the guidance





Action 2024-Moorestown-05. Water Conservation Ordinance Outreach

Lead Agency:	Township Administration
Supporting Agencies:	OEM, Sustainable Moorestown
Hazard(s) of Concern:	Drought, Extreme Temperature
Description of the Problem:	The Township has a water conservation ordinance (Chapter 175), which encourages and supports water conservation efforts and was amended in October 2016 to be enforced year-round. The former ordinance was not in effect year-round, which may cause confusion to residents and result in fines.
Description of the Solution:	Utilize social media, the Township newsletter, and the Township website to inform residents of the water conservation ordinance (Chapter 175) and of the repercussions if the ordinance is not followed. Include information on the Township's watering districts and how residents can identify which district they reside in.
Estimated Cost:	Low
Potential Funding Sources:	Municipal budget
Implementation Timeline:	Within 1 year
Goals Met:	1, 3, 4
Benefits:	This action will inform residents of changes that have occurred to the water conservation ordinance. This ordinance was written in response to drought conditions the Township had previously endured. The ordinance includes recommended water conservation guidelines set forth by the New Jersey Department of Environmental Protection and Sustainable Jersey.
Impact on Socially Vulnerable Populations:	N/A
Impact on Future Development:	N/A
Impact on Critical Facilities/Lifelines:	The water conservation ordinance mitigates potential impacts to the water sources for the Township. This action will inform residents on the importance of the ordinance and how over-utilizing water sources may impact the quality of life in the Township.
Impact on Capabilities:	This action ensures Township residents understand the water conservation ordinance.
Climate Change Considerations:	Higher temperatures are expected to increase the amount of moisture that evaporates from land and water. These changes have the potential to lead to more frequent and severe droughts, which, in turn, increases the likelihood of wildfires. This action will remind and inform residents of the Township's irrigation ordinance.
Mitigation Category	Education and Awareness Programs

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CRS Category	Public Information	
Priority	Medium	
Alternatives:	Action	Evaluation
	No Action	Residents will need to conduct their own research
	Remove the ordinance	Removing the ordinance will remove the responsibility of the Township to educate its residents on the ordinance
	Remove the ordinance's 2016 amendment	The ordinance will only be in place over the summer and not year-round





Action 2024-Moorestown-06. Earthquake Outreach

Lead Agency:	OEM	
Supporting Agencies:	-	
Hazard(s) of Concern:	Earthquake	
Description of the Problem:	· ·	toric buildings. The property owners, eneral, may not be aware of how to d how to respond.
Description of the Solution:	Create outreach materials, or utilize those from the State of New Jersey, on earthquake preparedness and response for residents. Methods of distribution may include Township events, the Township newsletter, social media, the Township website, and having the materials on display for the public at Township libraries and offices.	
Estimated Cost:	Low	
Potential Funding Sources:	Municipal budget	
Implementation Timeline:	Within 1 year	
Goals Met:	1, 3, 4	
Benefits:	This action will inform all populations on how to prepare themselves from the earthquake hazard.	
Impact on Socially Vulnerable Populations:	Socially vulnerable populations are often the most at-risk to the earthquake hazard due to potentially poor structural integrity of living spaces. This action will inform all populations, including the socially vulnerable, of how to prepare for and respond to an earthquake.	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	N/A	
Impact on Capabilities:	N/A	
Climate Change Considerations:	The potential impacts of global climate change on earthquake probability are unknown. Secondary impacts of earthquakes could be magnified by future climate change. Soils saturated by repetitive storms could experience liquefaction during seismic activity because of the increased saturation. Dams storing increased volumes of water from changes in the hydrograph could fail during seismic events. This action will inform residents on how to prepare and respond to an earthquake event.	
Mitigation Category	Education and Awareness Programs	
CRS Category	Public Information	
Priority	Medium	
Alternatives:	Action Evaluation	

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No Action	Residents will need to conduct their own research
Rely on state or federal resources	Resources may be generalized and not specific to the risks in Burlington County
Use only a few methods for distribution	Using only a few methods of distribution may hinder socially vulnerable populations from receiving the guidance





Action 2024-Moorestown-07. Establish Township Cooling and Warming Centers

Lead Agency:	OEM	
Supporting Agencies:	Township Administration	
Hazard(s) of Concern:	Extreme Temperature, Severe Winter Weather	
Description of the Problem:	·	wn cooling or warming center(s) to o cool or warm themselves during er weather events.
Description of the Solution:	Identify potential locations for its of Once established, create an operation	own cooling and warming center(s). ons plan on for each center.
Estimated Cost:	Low	
Potential Funding Sources:	Municipal budget	
Implementation Timeline:	Within 5 years	
Goals Met:	1, 6, 7	
Benefits:	· · · · · · · · · · · · · · · · · · ·	le a safe, local location for residents extreme temperature or severe winter
Impact on Socially Vulnerable Populations:	Socially vulnerable populations are more apt to utilize cooling and warming centers. This action will identify local locations the populations can use in time of need.	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	Locations identified in this action may be a critical facility and/or lifeline, such as the fire department event hall, municipal hall, or community center. These facilities may need an emergency generator to provide air conditioning or heat to vulnerable populations.	
Impact on Capabilities:	The action would create a new capability for the Township.	
Climate Change Considerations:	Climate change is likely to increase the intensity and frequency of many climate related disaster events. This action provides a safe location with air conditioning and heat for residents and visitors to locate to during extreme heat, extreme cold, and severe winter weather events.	
Mitigation Category	Local Plans and Regulations	
CRS Category	Emergency Services	
Priority	High	
Alternatives:	Action	Evaluation
	No Action	Residents would need to utilize other available locations for cooling and warming centers

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Only utilize County identified centers	Residents would need to utilize the County identified location of the Moorestown Mall as a cooling and warming center
Only utilize State identified centers	The center may not be open





Action 2024-Moorestown-08. Emergency Generators for Critical Facilities

Lead Agency:	OEM	
Supporting Agencies:	Township Administration, Engineering	
Hazard(s) of Concern:	Extreme Temperatures, Flood, Severe Weather, Severe Winter Weather	
Description of the Problem:	· ·	nay not have a back-up emergency rical cords, which may impact their mergency.
Description of the Solution:	back-up emergency generator. Wo	s within the Township which need a ork with an engineer to identify the switch, and electrical cords for each
Estimated Cost:	High	
Potential Funding Sources:	FEMA HMGP and BRIC, Municipal Bu	udget
Implementation Timeline:	Within 5 years	
Goals Met:	2, 6	
Benefits:	Each emergency generator will permit the continuity of operations for the identified critical facility or lifeline.	
Impact on Socially Vulnerable Populations:	Identified critical facility and lifeline locations may provide essential services to socially vulnerable populations, including food pantries, cooling and warming centers, and municipal facilities.	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	Each emergency generator will permit the continuity of operations for the identified critical facility or lifeline.	
Impact on Capabilities:	The action would create a new capability for the Township.	
Climate Change Considerations:	Climate change is likely to increase the intensity and frequency of many climate related disaster events. This action provides critical facilities with backup power to ensure continuity of operations.	
Mitigation Category	Structure and Infrastructure Project	
CRS Category	Property Protection	
Priority	High	
Alternatives:	Action	Evaluation
	No Action	Critical facilities will not have a back-up generator
	Rely on mutual aid	These services may or may not be available
	-	-

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Action 2024-Moorestown-09. Fire Prevention Education and Outreach

Lead Agency:	Fire Department		
Supporting Agencies:	OEM		
Hazard(s) of Concern:	Wildfire		
Description of the Problem:		d within very high and high fuel risk the Township may not be aware of	
Description of the Solution:	Create outreach materials, or utilize those from the State of New Jersey, on fire prevention for residents. Methods of distribution may include Township events, the Township newsletter, social media, the Township website, and having the materials on display for the public at Township libraries and offices.		
Estimated Cost:	Low		
Potential Funding Sources:	Municipal budget		
Implementation Timeline:	Within 1 year		
Goals Met:	1, 3, 4		
Benefits:	This action will inform all population	ns on how to prevent wildfires.	
Impact on Socially Vulnerable Populations:	Socially vulnerable populations in the Township may be located within very high and high fuel risk areas for wildfires. This action will educate these populations on how to reduce risk and prevent wildfires.		
Impact on Future Development:	N/A		
Impact on Critical Facilities/Lifelines:	N/A		
Impact on Capabilities:	N/A		
Climate Change Considerations:	Higher temperatures are expected to increase the amount of moisture that evaporates from land and water. These changes have the potential to lead to more frequent and severe droughts, which, in turn, increases the likelihood of wildfires.		
Mitigation Category	Education and Awareness Programs		
CRS Category	Public Information	Public Information	
Priority	Medium		
Alternatives:	Action	Evaluation	
	No Action	Residents will need to conduct their own research	
	Rely on state or federal resources	Resources may be generalized and not specific to the risks in Burlington County	

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Use only a few methods for distribution

Using only a few methods of distribution may hinder socially vulnerable populations from receiving the guidance





Action 2024-Moorestown-10. Pennsauken Creek Flood Mitigation Study

Lead Agency:	Floodplain Administrator									
Supporting Agencies:	Engineering									
Hazard(s) of Concern:	Flood									
Description of the Problem:	The area of Winthrop Avenue and \dolsa due to waters from the Pennsauken	Nagon Bridge Run repetitively flood Creek.								
Description of the Solution:	Conduct a flood mitigation study of the Pennsauken Creek to identify plausible solutions to mitigate the flooding of yards and homes. Studies may include: Dredging existing creek bed Bulkheading creek bed Raising affected residences Buying out affected residences									
Estimated Cost:	Low									
Potential Funding Sources:	FEMA BRIC, Municipal Budget									
Implementation Timeline:	Within 5 years									
Goals Met:	2									
Benefits:	Areas currently experiencing flooding will see a decrease or elimination of flood impacts.									
Impact on Socially Vulnerable Populations:	Socially vulnerable populations who live in the area of Winthrop Avenue and Wagon Bridge Run will be positively impacted by flood mitigation activities implemented as a result of this action.									
Impact on Future Development:	This study may result in the upda development in flood hazard areas.	te of ordinances to further restrict								
Impact on Critical Facilities/Lifelines:	N/A									
Impact on Capabilities:	N/A									
Climate Change Considerations:	A warmer atmosphere means storms have the potential to be more intense and occur more often, including increased periods of intense rain events.									
Mitigation Category	Natural Systems Protection									
CRS Category	Natural Resource Protection									
Priority	High									
Alternatives:	Action	Evaluation								
	No Action	The yards and properties will continue to flood								

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Perform flood mitigation measures without conducting a study	The action being taken may not be feasible and could worsen the flooding
-	-





Action 2024-Moorestown-11. Pompeston Creek Flood Mitigation Study

Lead Agency:	Floodplain Administrator	Floodplain Administrator								
Supporting Agencies:	Engineering									
Hazard(s) of Concern:	Flood									
Description of the Problem:	Recurring flooding occurs at the intersection of New Albany Road and Glen Avenue, the area of New Albany Road, and West Central Avenue, between Dawson Street and North Washington Avenue.									
Description of the Solution:	Conduct a flood mitigation study of the Pompeston Creek to identical plausible solutions to mitigate the flooding of yards and homes. Studical may include: Dredging existing creek bed Bulkheading creek bed Raising affected residences Buying out affected residences									
Estimated Cost:	Low									
Potential Funding Sources:	FEMA BRIC, Municipal Budget									
Implementation Timeline:	Within 5 years									
Goals Met:	2									
Benefits:	Areas currently experiencing flooding will see a decrease or elimination of flood impacts.									
Impact on Socially Vulnerable Populations:	Socially vulnerable populations who live in the area of New Albany Road and West Central Avenue will be positively impacted by flood mitigation activities implemented as a result of this action.									
Impact on Future Development:	This study may result in the upda development in flood hazard areas.	te of ordinances to further restrict								
Impact on Critical Facilities/Lifelines:	N/A									
Impact on Capabilities:	N/A									
Climate Change Considerations:	A warmer atmosphere means storms have the potential to be more intense and occur more often, including increased periods of intense rain events.									
Mitigation Category	Natural Systems Protection									
CRS Category	Natural Resource Protection									
Priority	High									
Alternatives:	Action	Evaluation								
	No Action The yards and prope continue to floor									

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Perform flood mitigation measures without conducting a study	The action being taken may not be feasible and could worsen the flooding
-	-





Action 2024-Moorestown-12. Swiftwater Rescue Training

Lead Agency:	OEM
Supporting Agencies:	Fire Department
Hazard(s) of Concern:	Flood, Severe Weather
Description of the Problem:	The Township experiences flooding in the in the area of New Albany Road and West Central Avenue (Pompeston Creek) and Winthrop Avenue and Wagon Bridge Run (Pennsauken Creek). Instances of flooding in these areas have resulted in significant roadway flooding, which has previously resulted in individuals being rescued from the swift waters. The Fire Department, who performs water rescues, are not trained in Swiftwater Rescues.
Description of the Solution:	Train Fire Department personnel in Swiftwater Rescue training which may include the following courses, which meet or exceed NJ PEOSHA and NFPA 1670 standards: - Swiftwater Awareness On-Line Training - NFPA 1006 Swiftwater Rescue Levels I & II - Water Rescue for the First Responder – NFPA 1670 Awareness Level - Water Rescue and Emergency Response – Operations - Advanced Line Systems Rescue – Technician - Emergency Boat Operations and Rescue
Estimated Cost:	Low
Potential Funding Sources:	PSPG, HSPG, Municipal Budget
Implementation Timeline:	Within 3 years
Goals Met:	1, 7
Benefits:	This action will permit the Township's Fire Department to be self- sustaining in performing Swiftwater rescues to safely pull residents out of dangerous flooding conditions.
Impact on Socially Vulnerable Populations:	Socially vulnerable populations who live in the in the area of New Albany Road and West Central Avenue (Pompeston Creek) and Winthrop Avenue and Wagon Bridge Run (Pennsauken Creek) will be positively impacted by this action.
Impact on Future Development:	N/A
Impact on Critical Facilities/Lifelines:	N/A
Impact on Capabilities:	This action will create a new capability for the Township.
Climate Change Considerations:	A warmer atmosphere means storms have the potential to be more intense and occur more often, including increased periods of intense rain events.
Mitigation Category	Education and Awareness Programs

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CRS Category	Emergency Services										
Priority	Medium										
Alternatives:	Action	Evaluation									
	No Action	Residents will need to free themselves from areas experiencing swift, rushing water									
	Rely on mutual aid	Mutual aid may be tied up in other impacted areas									
	Rely on State response	State resources may be tied up in other impacted areas									





Action 2024-Moorestown-13. Disease Outbreak Preparedness

Lead Agency:	OEM										
Supporting Agencies:	Burlington County Public Health, To	wnship Administration									
Hazard(s) of Concern:	Disease Outbreak										
Description of the Problem:	The Township does not have a stockpile or surplus of personal protective equipment (PPE) should a disease outbreak occur.										
Description of the Solution:	Purchase PPE for a stockpile or surplus in preparation of a potential disease outbreak. Perform regular inventory of the PPE to ensure viability.										
Estimated Cost:	Medium										
Potential Funding Sources:	Municipal Budget										
Implementation Timeline:	Within 5 years										
Goals Met:	1, 6										
Benefits:	This action will ensure the Township is adequately prepared should a disease outbreak occur.										
Impact on Socially Vulnerable Populations:	Socially vulnerable populations are often the most at-risk to the disease outbreak hazard due to pre-existing conditions and socioeconomic status. This action will ensure the Township has the PPE available at the start of a disease outbreak to assist socially vulnerable populations.										
Impact on Future Development:	N/A										
Impact on Critical Facilities/Lifelines:	This action may be able to assist hospitals, long-term care facilities, and first responders at the beginning of a disease outbreak by providing PPE.										
Impact on Capabilities:	N/A										
Climate Change Considerations:	diseases is difficult to predict with linkages between the two. A warm	change and increase in infectious in certainty, but there are scientific ing climate is likely to increase the ing the potential rates of transmission									
Mitigation Category	Local Plans and Regulations										
CRS Category	Preventative Measures										
Priority	Medium										
Alternatives:	Action	Evaluation									
	No Action No additional items will be to the stockpile										
	Wait for federal declaration to purchase items from grant funds	Unknown when federal funds will become available to purchase items for stockpile									

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Use old items in stockpile

Expired items are eligible for use during emergency situations, but could not be distributed to the public and may negatively impact those who use them





The prioritization criteria provided in Volume 1, Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as 'High', 'Medium', or 'Low.' The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

Table 9.23-18. Summary of Prioritization of Actions

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Political	Legal	Fiscal	Environmental	Social Vulnerability	Administrative	Hazards of Concern	Climate Change	Timeline	Community Lifelines	Other Community Objectives	Total	High / Medium / Low
2024-Moorestown-01	Disaster Debris Management Plan	0	1	1	1	1	1	1	0	1	1	1	1	0	1	11	High
2024-Moorestown-02	Substantial Damage Management Plan	0	1	1	1	1	1	0	1	1	1	1	1	1	0	11	High
2024-Moorestown-03	Dam Failure Response and Recovery Plan	1	1	1	1	0	0	0	1	1	1	0	1	1	0	9	Medium
2024-Moorestown-04	Disease and Health Risk Outreach	1	0	1	0	1	1	0	1	1	0	0	1	0	0	7	Medium
2024-Moorestown-05	Water Conservation Ordinance Outreach	0	1	1	0	1	1	1	0	1	1	1	1	0	0	9	Medium
2024-Moorestown-06	Earthquake Outreach	1	1	1	0	1	1	0	0	1	0	0	1	0	0	7	Medium
2024-Moorestown-07	Establish Township Cooling and Warming Centers	1	1	1	1	1	1	0	1	1	1	1	1	1	0	12	High
2024-Moorestown-08	Emergency Generators for Critical Facilities	0	1	1	0	1	1	0	1	1	1	1	1	1	0	10	High
2024-Moorestown-09	Fire Prevention Education and Outreach	1	1	1	0	1	1	0	0	1	0	1	1	0	0	8	Medium
2024-Moorestown-10	Pennsauken Creek Flood Mitigation Study	1	1	1	1	1	1	1	1	1	0	1	1	0	0	11	High
2024-Moorestown-11	Pompeston Creek Flood Mitigation Study	1	1	1	1	1	1	1	1	1	0	1	1	0	0	11	High
2024-Moorestown-12	Swiftwater Rescue Training	1	0	1	0	1	0	0	1	0	1	1	1	0	0	7	Medium

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Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Political	Legal	Fiscal	Environmental	Social Vulnerability	Administrative	Hazards of Concern	Climate Change	Timeline	Community Lifelines	Other Community Objectives	Total	High / Medium / Low
2024-Moorestown-13	Disease Outbreak Preparedness	1	0	1	0	1	1	0	1	1	0	1	1	0	0	8	Medium

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-6), Medium (7-10), High (11-14).