



SECTION 9. JURISDICTIONAL ANNEXES

9.13 TOWNSHIP OF EDGEWATER PARK

This section presents the jurisdictional annex for the Township of Edgewater Park 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 Edgewater Park participated in the planning process, an assessment of the Township of Edgewater Park's risk and vulnerability, the different capabilities used in the Township of Edgewater Park, and an action plan that will be implemented to achieve a more resilient community.

9.13.1 Hazard Mitigation Planning Team

The Township of Edgewater Park 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 Edgewater Park departments, including the Planner, Police Chief, sewerage department, administrator/treasurer, and the engineer. 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 9.13-1. Hazard Mitigation Planning Team

Primary Point of Contact		Alternate Point of Contact	
Name/Title:	Joseph T. Pullion, Township Administrator	Name/Title:	Alyssa Meredith, Emergency Management Coordinator
Address:	400 Delanco Road, Edgewater Park, NJ 08010	Address:	400 Delanco Road, Edgewater Park, NJ 08010
Phone Number:	609-877-2050 ext. 350	Phone Number:	609-334-6331
Email:	tpullion@edgewaterpark-nj.com	Email:	ameredith@edgewaterpark-nj.com
NFIP Floodplain Administrator			
Name/Title:	Harry Moscatiello, Construction Code Official		
Address:	400 Delanco Road, Edgewater Park, NJ 08010		
Phone Number:	(609) – 877-2050 ext. 315		



Email:	hmoscatiello@edgewaterpark-nj.com
Additional Contributors:	
Name/Title:	Edward Fox, AICP PP, Township and Board Planner
Method of Participation:	Completed Worksheets A, B, and D; reviewed draft annex.
Name/Title:	Brett Evans, Police Chief
Method of Participation:	Attended the Planning Partnership Risk Assessment Meeting and Mitigation Strategy Workshop; reviewed draft annex.
Name/Title:	Michelle Atzert, Administrator/Treasurer, Edgewater Park Sewerage
Method of Participation:	Completed the stakeholder survey; reviewed draft annex.
Name/Title:	Alyssa Meredith, Emergency Management Coordinator
Method of Participation:	Completed Risk Assessment Worksheet, attended planning partnership meetings, and individually scheduled meeting; reviewed draft annex.
Name/Title:	Rakesh R. Darji, PE, PP, CME, CFM, Township and Board Engineer
Method of Participation:	Completed Tables for NFIP Information; reviewed draft annex.
Name/Title:	Joseph T. Pullion, Township Administrator
Method of Participation:	Reviewed draft annex.
Name/Title:	Harry Moscatiello, Construction Code Official
Method of Participation:	Reviewed draft annex. Added information for NFIP capabilities.
Name/Title:	Jim Bernard, Public Works Superintendent
Method of Participation:	Reviewed draft annex.
Name/Title:	Patricia Clayton, Municipal Clerk
Method of Participation:	Reviewed draft annex.

9.13.2 Municipal Profile

Located along the Delaware River in northern Burlington County, the Township of Edgewater Park is bordered by the Township of Burlington to the east, the Town of Willingboro to the south, the Township of Delanco to the west, and the City of Beverly to the northwest. The Township encompasses nearly 3 square miles, and serves as a suburb of Philadelphia, Pennsylvania across the Delaware River. The Delaware River serves as a natural border to the west. The Township has a total area of 3.040 square miles, including 2.894 square miles of land and 0.146 square miles of water.

Edgewater Park Township is governed under the Township form of government with a five-member Township Committee. The Township Committee is elected directly by the voters in partisan elections to serve three-year terms of office on a staggered basis, with one or two seats coming up for election each year. At an annual reorganization meeting, the Township Committee selects one of its members to serve as Mayor and another as Deputy Mayor.

According to the U.S. Census, the 2020 population for the Township of Edgewater Park was 8,930, a 0.5 percent increase from the 2010 Census. Data from the 2021 American Community Survey 5-Year Population Estimates indicate that 17.6 percent is 65 years of age or older, 7.8 percent of the population is 5 years of age or younger, 4.1 percent is non-English speaking, 16.4 percent has a disability, and 18.4 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 Edgewater Park, 47 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.

9.13.3 Jurisdictional Capability Assessment and Integration

The Township of Edgewater Park 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 Edgewater Park 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 Edgewater Park. The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.

Table 9.13-2. 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 193 Construction Codes, Uniform	State and Local	Construction Official
<i>How does this reduce risk?</i> This chapter and the Building Code shall be enforced and administered by the Construction Official as appointed by the Township. This code ensures all buildings are in line with the Uniform Construction Code, as adopted by the Township and the State of New Jersey.				
Zoning/Land Use Code	Yes	Chapter 310 Land Development and Zoning	Local	Zoning Officer, Planning Board
<i>How does this reduce risk?</i>				



	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
No building or structure may be erected, altered, or used, and no lot or premises may be used for any use which is likely to create conditions of hazards, smoke, fumes, noise, odor, or dust or other noxious or offensive conditions detrimental to the health, safety or general welfare of the surrounding area. All uses shall be subject to such fire safety conditions as are approved by the Construction Official.				
Risk reduction recommendations for Chapter 310 were included in the 2021 Master Plan Land Use Plan Update, but implementation ordinances have not yet been prepared and adopted.				
Subdivision Ordinance	Yes	Chapter 310 Land Development and Zoning, Article 11 Development Application Procedure	Local	Zoning Officer, Planning Board
<i>How does this reduce risk?</i> Risk reduction recommendations for Chapter 310 were included in the 2021 Master Plan Land Use Plan Update, but implementation ordinances have not yet been prepared and adopted.				
Site Plan Ordinance	Yes	Chapter 310, Article 11 Development Application Procedure	Local	Zoning Officer, Planning Board
<i>How does this reduce risk?</i> All actions that qualify as changes of use and minor and major site plans shall require Board approval, except that: (1) Individual lot applications for detached one- or two-dwelling-unit buildings; and (2) Construction work found by the Zoning Officer to constitute ordinary repairs shall be exempt from site plan review. Any grading, clearing or filling of a lot shall be performed in conjunction with a development that received approval from the Board or the Zoning Officer, as the case may be. Risk reduction recommendations for Chapter 310 were included in the 2021 Master Plan Land Use Plan Update, but implementation ordinances have not yet been prepared and adopted.				
Stormwater Management Ordinance	Yes	Chapter 444 Stormwater Control	Local	Public Works
<i>How does this reduce risk?</i> The purpose of this article is to establish minimum stormwater management requirements and controls to protect and safeguard the general health, safety, and welfare of the public residing within this jurisdiction. An identified objective of this ordinance is to minimize increases in the volumes and rates of stormwater runoff from land development activities in order to reduce flooding and streambank erosion.				
Post-Disaster Recovery/ Reconstruction Ordinance	No	-	-	-
<i>How does this reduce risk?</i>				
Real Estate Disclosure	Yes	Senate Bill 3110; P. L. 2023, c. 93, July 3, 2023	State	Sellers and Landlords of commercial or residential property
<i>How does this reduce risk?</i> 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 guest houses serving transient or seasonal guests for a period of less than 120 days.				



	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
<p>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.</p> <p>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.</p> <p>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.</p> <p>The disclosure statement must contain the heading “Flood Risk” and ask the seller the following questions:</p> <ul style="list-style-type: none"> 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? <p>Not all provisions of this law have become effective at the time of the writing of this plan.</p>				
Growth Management	No	-	-	-
<p><i>How does this reduce risk?</i></p> <p>Growth management recommendations for Chapter 310 were included in the 2021 Master Plan Land Use Plan Update, but implementation ordinances have not yet been prepared and adopted.</p>				
Environmental Protection Ordinance	No	-	-	-
<p><i>How does this reduce risk?</i></p>				
Flood Damage Prevention Ordinance	Yes	Chapter 310 Land Development and Zoning, Article 32 Flood Damage Prevention	Local	Township Engineer
<p><i>How does this reduce risk?</i></p> <p>It is the purpose of this chapter to promote the public health, safety, and general welfare, and to minimize public and private losses due to flood conditions in specific areas by provisions designed to:</p> <ol style="list-style-type: none"> (1) Protect human life and health; (2) Minimize expenditure of public money for costly flood control projects; 				



	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
(3) Minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public; (4) Minimize prolonged business interruptions; (5) Minimize damage to public facilities and utilities such as water and gas mains, electric, telephone and sewer lines, streets, bridges located in areas of special flood hazard; (6) Help maintain a stable tax base by providing for the sound use and development of areas of special flood hazard so as to minimize future flood blight areas; (7) Ensure that potential buyers are notified that property is in an area of special flood hazard; and (8) Ensure that those who occupy the areas of special flood hazard assume responsibility for their actions.				
The ordinance does not follow the model code coordinated ordinance available from NJDEP and will require update				
Wellhead Protection	No	-	-	-
<i>How does this reduce risk?</i>				
Emergency Management Ordinance	Yes	Chapter 44 Emergency Management	Local	OEM
<i>How does this reduce risk?</i> It is the intent and purpose of this chapter to establish an Emergency Management Office staffed by an emergency management coordinator, as hereinafter provided, that will insure the complete and efficient utilization of all the Township's facilities to combat disaster resulting from major emergencies, natural, man-made or nuclear disasters, or enemy attack.				
Climate Change Ordinance	No	-	-	-
<i>How does this reduce risk?</i>				
Other	No	-	-	-
<i>How does this reduce risk?</i>				
Planning Documents				
Comprehensive/Master Plan	Yes	Township of Edgewater Park Master Plan, May 2021	Local	Planning Board
<i>How does this reduce risk?</i> 2021 Master Plan Land Use Plan Update included a climate change hazard vulnerability assessment.				
Capital Improvement Plan	Yes	Capital Improvement Plan, Annual	Local	All Departments
<i>How does this reduce risk?</i> The current plan's budget does not have a specific category for risk reduction.				
Disaster Debris Management Plan	Yes	Township of Edgewater Park EOP 2022	Local	OEM
<i>How does this reduce risk?</i> The efficient and rapid management of disaster debris will help to protect the health and safety of the affected population, minimize threats to the environment, and ensure that critical response and recovery activities can proceed in a timely and unencumbered manner.				
Floodplain Management or Watershed Plan	No	-	-	-
<i>How does this reduce risk?</i>				
Stormwater Management Plan	Yes	Township of Edgewater Park Municipal Stormwater Management Plan, March 2007	Local	Public Works
<i>How does this reduce risk?</i> Complies with State regulations.				



	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
Stormwater Pollution Prevention Plan	Yes	Township of Edgewater Park Stormwater Pollution Prevention Plan, March 2007	Local	Public Works
<i>How does this reduce risk?</i> Complies with State regulations.				
Open Space Plan	Yes	Township of Edgewater Park Master Plan Open Space and Recreational Facilities Element, May 2021	Local	Planning Board
<i>How does this reduce risk?</i> Open Space recommendations were included in the 2021 Master Plan Land Use Plan Update, but implementation ordinances have not yet been prepared and adopted.				
Urban Water Management Plan	No	-	-	-
<i>How does this reduce risk?</i>				
Habitat Conservation Plan	No	-	-	-
<i>How does this reduce risk?</i>				
Economic Development Plan	Yes	Township of Edgewater Park Master Plan Land Use Element, May 2021	Local	Planning Board
<i>How does this reduce risk?</i> Economic development recommendations were included in the 2021 Master Plan Land Use Plan Update, but implementation ordinances have not yet been prepared and adopted.				
Shoreline Management Plan	No	-	-	-
<i>How does this reduce risk?</i>				
Community Wildfire Protection Plan	No	-	-	-
<i>How does this reduce risk?</i>				
Community Forest Management Plan	No	-	-	-
<i>How does this reduce risk?</i>				
Transportation Plan	Yes	Township of Edgewater Park Master Plan Transportation Element, May 2021	Local	Planning Board
<i>How does this reduce risk?</i> Transportation recommendations were included in the 2021 Master Plan Land Use Plan Update, but implementation ordinances have not yet been prepared and adopted.				
Agriculture Plan	No	-	-	-
<i>How does this reduce risk?</i>				
Climate Action/ Resiliency/Sustainability Plan	Yes	Township of Edgewater Park Master Plan, May 2021	Local	Planning Board
<i>How does this reduce risk?</i> Recommendations were included in the 2021 Master Plan Land Use Plan Update, but implementation ordinances have not yet been prepared and adopted.				
Tourism Plan	No	-	-	-



	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
<i>How does this reduce risk?</i>				
Business/ Downtown Development Plan	No	-	-	-
<i>How does this reduce risk?</i>				
Other	No	-	-	-
<i>How does this reduce risk?</i>				
Response/Recovery Planning				
Emergency Operations Plan	Yes	Township of Edgewater Park Emergency Operations Plan 2022	Local	OEM
<i>How does this reduce risk?</i> The Emergency Operations Plan aims to assess the Township's ability to respond to emergency and identifies recommendations to improve its capacity to prepare and respond to future events. The plan address both short- and long-term recovery.				
Continuity of Operations Plan	Yes	Township of Edgewater Park Emergency Operations Plan 2022	Local	OEM
<i>How does this reduce risk?</i> The purpose of the Continuity of Operations (COOP) plan is to establish policy and guidance to ensure that essential functions for an agency are continued in the event that manmade, natural, or technological emergencies disrupt or threaten to disrupt normal operations. The COOP plan enables the agency to operate with a significantly reduced workforce and diminished availability of resources, and to operate from an alternate work site should the primary facility become uninhabitable.				
Strategic Recovery Planning Report	No	-	-	-
<i>How does this reduce risk?</i>				
Threat & Hazard Identification & Risk Assessment (THIRA)	Yes	Township of Edgewater Park Emergency Operations Plan 2022	Local	OEM
<i>How does this reduce risk?</i> The Threat and Hazard Identification and Risk Assessment (THIRA) helps the Township understand its risks and what they need to do to address those risks. The THIRA is a part of the Township's EOP.				
Post-Disaster Recovery Plan	Yes	Township of Edgewater Park Emergency Operations Plan 2022	Local	OEM
<i>How does this reduce risk?</i> The Post-Disaster Recovery Plan, covered by the long-term recovery ESF in the Emergency Operations Plan, aims to assess the Township's ability to respond to emergency and identifies recommendations to improve its capacity to prepare and respond to future events. The plan address both short- and long-term recovery.				
Public Health Plan	No	-	-	-
<i>How does this reduce risk?</i>				
Other	No	-	-	-
<i>How does this reduce risk?</i>				



Development and Permitting Capability

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

Table 9.13-3. Development and Permitting Capability

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits? <ul style="list-style-type: none">If yes, what department is responsible?	Yes	Construction
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	SFHA
Do you have a buildable land inventory? <ul style="list-style-type: none">If yes, please describe	No	-
Describe the level of build-out in your jurisdiction.	N/A	Edgewater Park is almost built out as the Township contains few vacant properties. Vacant properties, less than an acre in size, are found primarily in the residential areas in the western section and north of the railroad. Many of these vacant properties have limited development potential.

Administrative and Technical Capability

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

Table 9.13-4. Administrative and Technical Capabilities

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Administrative Capability		
Planning Board	Yes	The Planning Board serves as a Planning Board and a Zoning Board of Adjustment. The nine-member board exercises all the powers of the Zoning Board of Adjustment.
Zoning Board of Adjustment	No	See above
Planning Department	No	-
Mitigation Planning Committee	No	-
Environmental Board/Commission		The Environmental/Shade Tree Advisory Committee consists of five members and two alternate members selected by the Mayor. The Environmental/Shade Tree Advisory Committee is created for the protection, development and use of the natural land, air and water resources located within the Township.
Open Space Board/Committee	No	-



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Economic Development Commission/Committee	Yes	The Redevelopment Committee was created to analyze the economic development of the region and to promote the sound development of the Township. Furthermore, the Redevelopment Committee is charged with mobilizing the potential resources of the Township for efficient, commercial, office and economic development uses. They are to conduct a thorough study of the basic economic advantages of the Township and promote the same so that a program for managed and selected growth of clean and environmentally desirable ratables may be realized.
Public Works/Highway Department	Yes	The Public Works Department responds to the residential complaints and is also responsible for the operation and maintenance of roads, parks, recycling, trash pick-up. It oversees the administration buildings & grounds, water distribution system, the sanitary sewer collection system, and storm water systems.
Construction/Building/Code Enforcement Department	Yes	Construction/Zoning and Code Enforcement are in the Inspections Department. Permits are issued by Construction. Zoning addresses the reviewal of application related to the alteration of properties. Code Enforcement enforces the UCC.
Emergency Management/Public Safety Department	Yes	The Emergency Management Office is staffed by an emergency management coordinator who will ensure the complete and efficient utilization of all the Township's facilities to combat disaster resulting from major emergencies. The Edgewater Park Office of Emergency Management will be the coordinating agency for all activity in connection with emergency management.
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)	Yes	CivicReady
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	Yes	The Public Works Department responds to the residential complaints and is also responsible for the operation and maintenance of roads, parks, recycling, trash pick-up. It oversees the administration buildings & grounds, water distribution system, the sanitary sewer collection system, and storm water systems.
Mutual aid agreements	Yes	Endeavor EMS
Human Resources Manual <i>e.g., Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?</i>	No	-
Other	No	-
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	The Township employs Environmental Resolutions, Inc. (ERI) in Mt. Laurel, NJ as municipal and board engineers and planners for this concern.
Engineers or professionals trained in building or infrastructure construction practices	Yes	The Township employs Environmental Resolutions, Inc. (ERI) in Mt. Laurel, NJ as municipal and board engineers and planners for this concern.
Planners or engineers with an understanding of natural hazards	Yes	The Township employs Environmental Resolutions, Inc. (ERI) in Mt. Laurel, NJ as municipal and board engineers and planners for this concern.
Staff with expertise or training in benefit/cost analysis	Yes	The Township employs Environmental Resolutions, Inc. (ERI) in Mt. Laurel, NJ as municipal and board engineers and planners for this concern.
Professionals trained in conducting damage assessments	Yes	The Township employs Environmental Resolutions, Inc. (ERI) in Mt. Laurel, NJ as municipal and board engineers and planners for this concern. Public Works, Fire Officials, and OEM Coordinator the also trained in conducting damage assessments.
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	Yes	The Township employs Environmental Resolutions, Inc. (ERI) in Mt. Laurel, NJ as municipal and board engineers and planners for this concern.
Environmental scientist familiar with natural hazards	Yes	The Township employs Environmental Resolutions, Inc. (ERI) in Mt. Laurel, NJ as municipal and board engineers and planners for this concern.
Surveyor(s)	Yes	The Township employs Environmental Resolutions, Inc. (ERI) in Mt. Laurel, NJ as municipal and board engineers and planners for this concern.
Emergency Manager	Yes	The Emergency Management Office is staffed by an emergency management coordinator who will ensure the complete and efficient utilization of all the Township's facilities to combat disaster resulting from major emergencies. The Edgewater Park Office of Emergency Management will be the coordinating agency for all activity in connection with emergency management.
Grant writer(s) <i>Consider the following - Are data and maps from the HMP used to support documentation in grant applications?</i>	No	-
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	No	-

Fiscal Capability

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



Table 9.13-5. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	Yes
Capital improvements project funding	Yes
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas, or electric service	No
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	Yes
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	No
Open Space Acquisition funding programs	No
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 Edgewater Park.

Table 9.13-6. Education and Outreach Capabilities

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	Yes	Township Committee Public Affairs & Public Safety Committee-person
Personnel skilled or trained in website development	Yes	Contracted
Hazard mitigation information available on your website	No	-
Social media for hazard mitigation education and outreach	No	-
Citizen boards or commissions that address issues related to hazard mitigation	Yes	The Redevelopment Committee was created to analyze the economic development of the region and to promote the sound development of the Township.
Warning systems for hazard events	Yes	CivicReady
Natural disaster/safety programs in place for schools	No	-
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 and local township meetings could be used to educate citizens of Edgewater Park about natural hazards/risks and how to protect themselves.



Community Classifications

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

Table 9.13-7. 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)	No	-	-
Storm Ready Certification	No	-	-
Firewise Communities classification	No	-	-
New Jersey Sustainable Jersey Community	Yes	None	March 3, 2009
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 9.13-8. Adaptive Capacity

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



The Township of Edgewater Park indicated the following:

- The adaptive capacity for the Wildfire hazard should be increased from ‘moderate’ to ‘strong’.

9.13.4 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)

Harry Moscatiello, Construction Code Official

National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Township of Edgewater Park.

Table 9.13-9. NFIP Summary

Active Policies	Total Premium + Policy Fee	Number of Losses	Total Net Payment	Repetitive Loss Properties
6	\$3,929	5	\$16,200.85	None

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 Edgewater Park.

Table 9.13-10. NFIP Summary

NFIP Topic	Comments
Flood Vulnerability Summary	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none">Do you maintain a list of properties that have been damaged by flooding?	Areas within the township are minor. These include the northeastern portion of the Township along the Delaware River, the westerly portion of the Township near the Rancocas Creek and the southerly portion near the Rancocas Creek. These areas are identified on the FEMA FIRM’s. The Township’s construction office has a list of properties that have been damaged by flooding.
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none">How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?	Unaware of any properties interested in flood mitigation.



NFIP Topic	Comments
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> If so, state what projects are underway. 	According to FEMA records, there is a project on-going that may slightly overlap into Edgewater Park Township. This project is: Case Number 24-02-0006S, Project Name RM FY23 NJ – Cohansey-Maurice Watershed Discovery DISC (CTP). This appears to be mainly within Beverly City.
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> How many were declared for recent flood events in your jurisdiction? 	In accordance with the Township's Flood Damage Prevention Ordinance. See 310-2-2, "Substantial Damage" No damages with the substantial determination have been reported.
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"> If there are mitigated properties, how were the projects funded? 	None.
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> If not, state why. 	Yes.
NFIP Compliance	
What local department is responsible for floodplain management?	Construction Code Official
Are any certified floodplain managers on staff in your jurisdiction?	None on staff, but through the Township's Engineering consultant.
Do you have access to resources to determine possible future flooding conditions from climate change?	No, as the FIRM's have not yet been updated to include the new base flood elevation per NJDEP revisions.
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> If so, what type of assistance/training is needed? 	No. The Township relies on its consulting Engineer as necessary.
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	Engineering capability through consulting Engineer.
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	Based on the ordinance definition. See 310-2-2, "Substantial Improvement"
What are the barriers to running an effective NFIP program in the community, if any?	Lack of necessity and lack of staffing due to minimal number of properties within flood prone areas.
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> If so, state the violations. 	No.
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	N/A
What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"> Have you adopted NJDEP's Model Code Coordinated Ordinance? 	Chapter 310, Article 32



NFIP Topic	Comments
<ul style="list-style-type: none"> What is the date that your flood damage prevention ordinance was last amended? 	<p>Original Model Code adopted. Revised Model Code Coordinated Ordinance will be adopted prior to deadline of May 13, 2024.</p> <p>December 5, 2017</p>
<p>Does your floodplain management program meet or exceed minimum requirements?</p> <ul style="list-style-type: none"> If exceeds, in what ways? 	Meets 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?	Site plan reviews for planning and zoning board where properties are checked against the FEMA FIRMs to ensure proposed development is outside of flood hazard areas.
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	No, as there is a lack of properties within flood prone areas.

9.13.5 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 9.13-11. Number of Building Permits for New Construction

Type of Development	2018		2019		2020		2021		2022	
Number of Building Permits for New Construction Issued Since the previous HMP* (total/within regulatory floodplain)										
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family	10	0	0	0	1	0	9	0	89	0
Multi-Family	8	0	2	0	0	0	6	0	36	0
Other (commercial, mixed-use, etc.)	2	0	1	0	0	0	5	0	6	0
Total Permits Issued	20	0	3	0	1	0	22	0	131	0

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

* Only location-specific hazard zones or vulnerabilities identified.

Table 9.13-12. 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
Recent Major Development from 2019 to Present					



Property or Development Name	Type (e.g., Res., Comm.)	# of Units / Structures	Address and Parcel ID	Known Hazard Zone(s)	Description/Status of Development
Municipal Complex	Municipal	2	Mount Holly Road	None	Plans ready to be sent out to bid.
Ariel Realty, LLC	Res. and Comm.	136 THs, 69 MFs, 9000 SF Comm.	4329 US Route 1320	None	Partially completed and occupied.
Exeter Warehouse	Ind.	704,700 SF Ind.	4259 Route 130 South - Block 501, Lots 1 & 6	None	Completed and occupied.
Ryan Homes at Eagle Chase	Mutli-Family Residential	70	Parsons Blvd	None	Under Construction- Multi-family townhomes
Known or Anticipated Major Development in the Next Five (5) Years					
There is no known or anticipated major development in the next five (5) years.					

9.13.6 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 (Hazard Ranking) provide detailed summaries for the Township of Edgewater Park'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 Edgewater Park has significant exposure. The maps also show the location of potential new development, where available.



Figure 9.13-1. Township of Edgewater Park Flood and Sea Level Rise Hazard Area Extent and Location Map

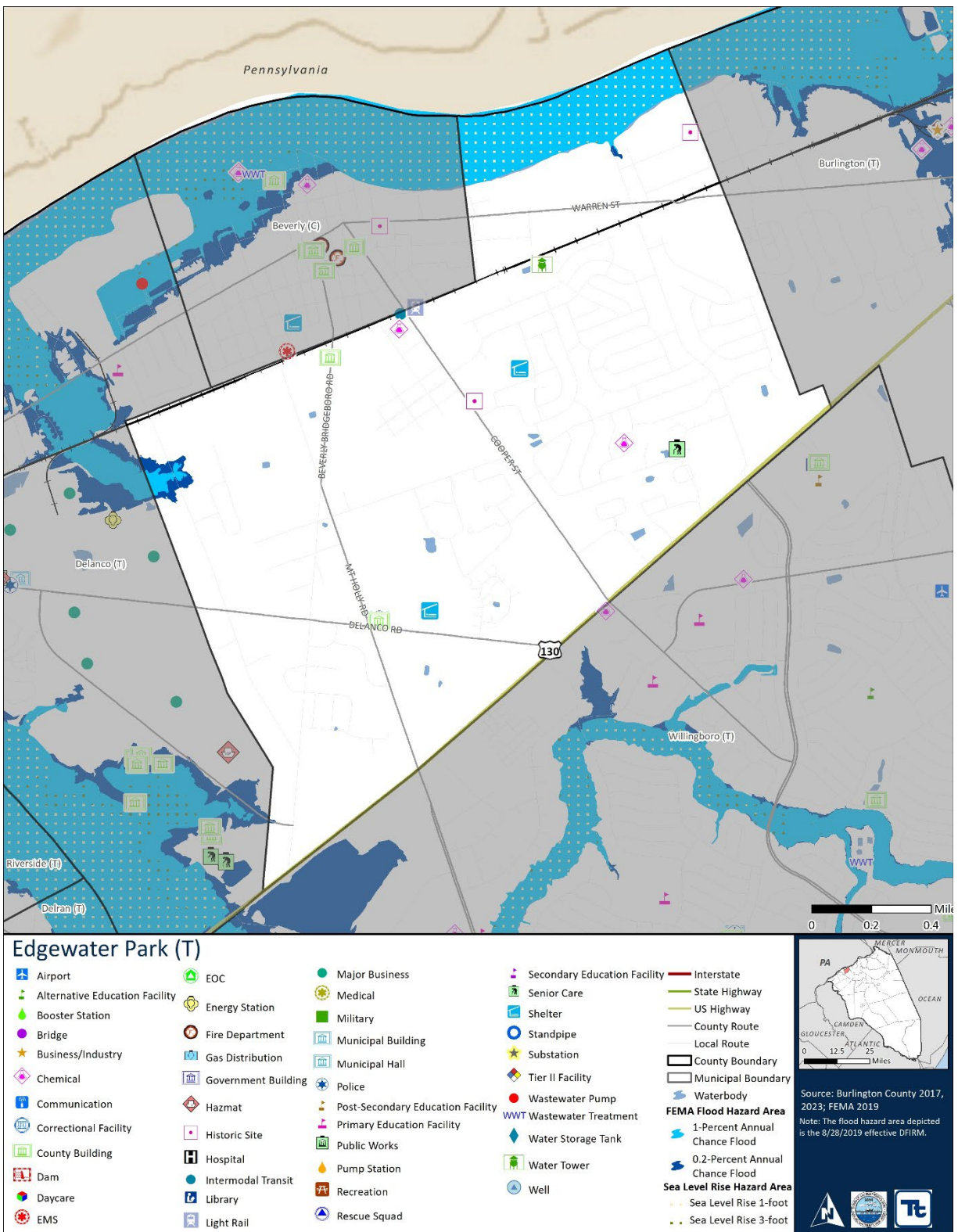
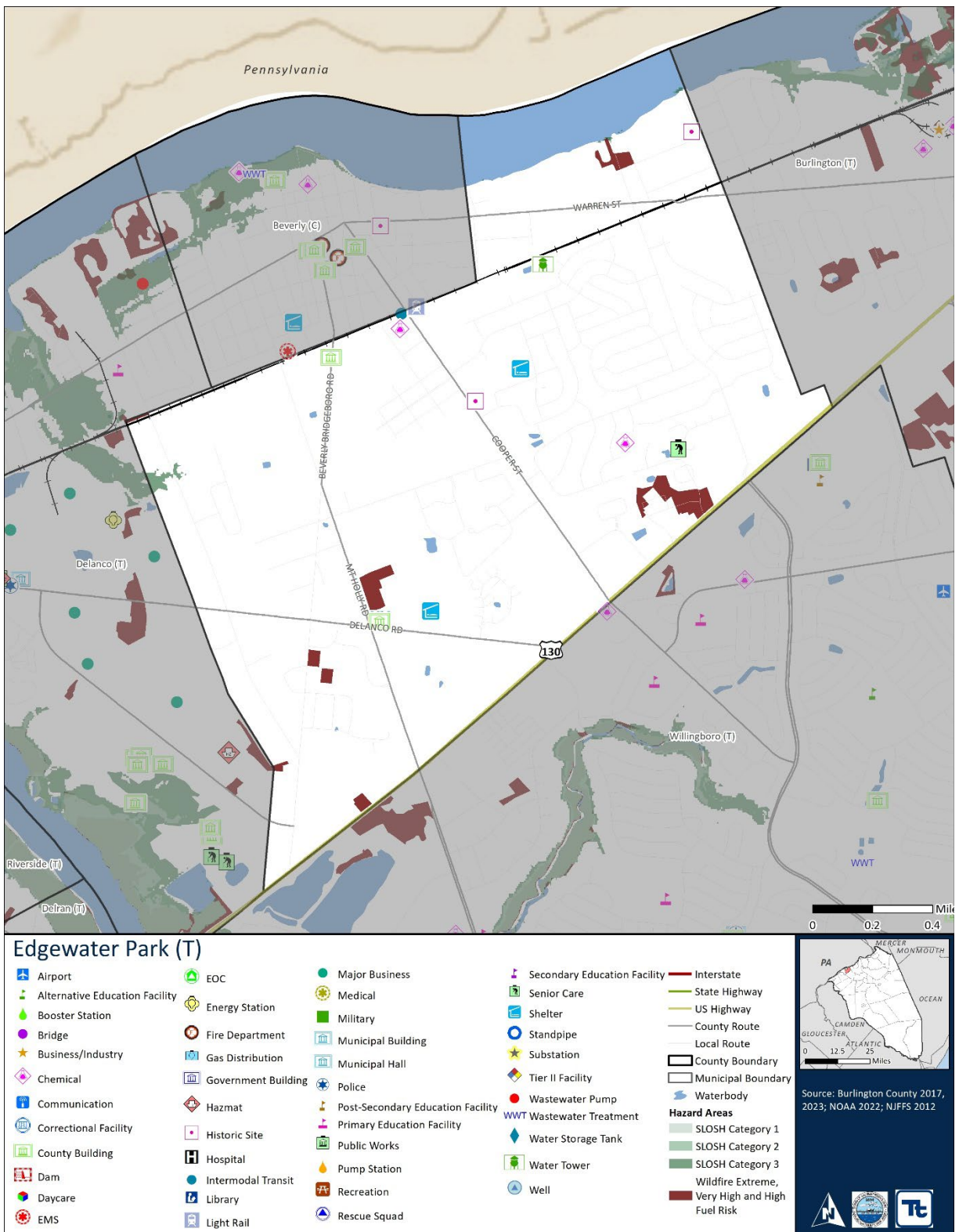




Figure 9.13-2. Township of Edgewater Park SLOSH and Wildfire Hazard Area Extent and Location Map





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 Edgewater Park'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 Edgewater Park 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 9.13-13. Hazard Event History Since 2019

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of 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.	Although the County was impacted, the Township did not incur any damages or losses from this event.
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.	The Township followed masking and social distancing mandates.
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.	Although the County was impacted, the Township did not incur any damages or losses from this event.



Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
June 9, 2021	Lightning, Thunderstorm Wind		Severe thunderstorms developed bringing a threat for damaging winds, hail, and torrential rain. Locally heavy rains of 2 to 3 inches occurred in the far northwestern part of Burlington County.	Widespread roadway flooding occurred, and a couple of downed trees and limbs were reported.
July 12, 2021	Flash Flood		Thunderstorms brought locally heavy rain; rainfall totals up to 5 to 8 inches prompting the issuance of a Flash Flood Emergency. Widespread roadway flooding occurred in Florence Township, Burlington City, Burlington Township, Edgewater Park, Beverly, Palmyra, Delanco, and Riverside causing numerous road closures. There were several water rescues.	Widespread roadway flooding occurred.
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.	Heavy rainfall and flash flooding. Tornado moved through the Township but did not cause any damages.
June 2, 2022	Thunderstorm Wind		Widespread thunderstorms developed; some of the storms became severe as they moved through the region, producing damaging winds and small hail. Trees were downed and uprooted, powerlines were downed, and tree limbs fell in Beverly, Delanco, Edgewater Park, Mount Laurel, Pemberton, Medford, and Woodland. There were no property or crop damages reported from this event in Burlington County.	Trees were downed and uprooted, powerlines were downed, and tree limbs.

Source: FEMA 2023, NOAA NCEI 2023

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 Edgewater Park'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 Edgewater Park. The Township of Edgewater Park 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 Edgewater Park indicated all the rankings were appropriate.

Table 9.13-14. Hazard Ranking Input

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

Critical Facilities

The Township does not have any critical facilities or lifelines in the community located in the 1-percent or 0.2-percent floodplain.



Identified Issues

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

- A recent audit of New Jersey's model ordinances by FEMA for conformance with NFIP, resulted in a review of existing local flood damage prevention ordinances. Based upon FEMA's review, specific language related to NFIP regulations was not consistent. Additionally, it was determined that better coordination was needed between the three sets of regulations that regulate development and construction in the floodplain.
- Major disaster events can result in large amounts of debris that overwhelm normal trash collection operations.
- 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 Township has limited training and guidance relating to how to handle and prepare for disease outbreaks, including PPE exhaustion, increased hospitalizations, and strain on emergency services.
- The Township does not currently have a building that can be used as an Emergency Operations Center and as a heating and cooling shelter as needed.
- Residents and business may not be informed on hazard risks or how to mitigate the risks associated with the hazards which may impact the Township.
- Edgewater Park Sewerage noted prior impacts from Superstorm Sandy and concerns with lightning from severe weather events impacting services.
- When the Delaware River floods, it is mostly residential roads impacted, including a low-lying bridge which spans from Warren Street to Beverly Road. On occasion, the Canoe Club, a historic site, will flood.
- Flooding occurs due to less than sufficient capacity of culverts at the Light Rail Line and Burlington Avenue which negatively impacts nearby homes and properties.
- Hendrickson Avenue and surrounding properties are inundated by water during large storm events. The hazard was minimized through completion of the Roosevelt Pump Station project, however during large storm events, the problem continues to persist.
- The Adams Avenue Basins do not have an automated pump station equipped with a backup generator, which can be used during any event that may cause a power outage.
- Stormwater infrastructure needs to be expanded due to an undersized basin, which requires pumping to alleviate free board capacity. This project is currently in progress and is scheduled for the 5-year Capital Improvement Plan.
- The National Weather Service (NWS) provides a certification called StormReady to locales that adopt certain weather preparedness principles and planning. The Township does not participate in NOAA's StormReady program.
- The Township needs additional support to address the hazards of concern that are identified in the Hazard Mitigation Plan.



- The municipalities along the U.S. Route 130 corridor in Burlington County are impacted primarily by riverine flooding that may be worsened by climate change. These communities along the Delaware River and its tributaries, including the Rancocas, Assiscunk, and Pompeston creeks, are frequently impacted by severe flooding events. A joint regional climate change resilience planning effort is needed to assess future risks and identify local and regional solutions.
- The Township residents are unaware of hazard mitigation principles and best practices and the Township does not have social media set up to share hazard related information and to send out hazard warnings.

9.13.7 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 9.13-15. Status of Previous Mitigation Actions

Project #	Project	Responsible Party	What is the status? (e.g., In Progress, No Progress, Ongoing Capability, or Completed) If in progress or completed, please describe the funding source, cost and who is implementing.	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)? 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.
Twp. Edgewater Park-1 (former EP-1)	Bogg's Run - implement improvements to increase the capacity of culverts at the Light Rail Line and Burlington Avenue	Lead: Delanco OEM, Edgewater OEM Support: County OEM, NJ Transit	No Progress	Yes	Flooding occurs due to less than sufficient capacity of culverts at Bogg's Run and surrounding homes	Lead: Engineering, Support: Delanco/Edgewater Park OEM, County OEM, NJ Transit
Twp. Edgewater Park-2 (former EP-2)	Adams Avenue Basins – remove separating embankment between the two basins	Lead: Edgewater OEM Support: Edgewater DPW, County OEM,	No Progress	Yes	Hendrickson Avenue and surrounding properties are inundated by water during large storm events. Hazard was minimized through completion of Roosevelt Pump Station project, but this would still be beneficial to complete for additional stormwater storage during large rain events.	Lead: Engineering Support: Edgewater OEM, Edgewater DPW, County OEM,
Twp. Edgewater Park-3	Adams Avenue Basins – construct new automated pump station with backup generator	Lead: Edgewater OEM Support: County OEM,	No Progress	Yes	Hendrickson Avenue and surrounding properties are	Lead: Engineering



Project #	Project	Responsible Party	What is the status? (e.g., In Progress, No Progress, Ongoing Capability, or Completed) If in progress or completed, please describe the funding source, cost and who is implementing.	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)?		
				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.
(former EP-3)					inundated by water during large storm events. Hazard was minimized through completion of Roosevelt Pump Station project, but this would still be beneficial to complete for additional stormwater storage during large rain events.	Support: Edgewater OEM Edgewater DPW, County OEM,
Twp. Edgewater Park-4 (former EP-4)	Construct separate 8" discharge line for Roosevelt Pump Station so Adams Avenue Pump Station and Roosevelt Pump Station no longer need to share the line to the gravity drain	Lead: Edgewater OEM Support: County OEM,	Completed through Township and CDBG funds. The total project cost, including site amenities and other improvements, was \$774,794.81.	No	N/A	N/A
Twp. Edgewater Park-5 (former EP-5)	Expand stormwater infrastructure and construct discharge line and construct automated pump station with backup generator: Silver Park West age restricted development	Lead: Edgewater OEM Support: County OEM,	In Progress (scheduled for 5-year capital improvement plan). Estimated cost to be \$1,000,000. Funding	Yes	Basin is undersized and requires pumping to alleviate free board capacity.	Lead: Engineering Support: Edgewater OEM, County OEM



Project #	Project	Responsible Party	What is the status? (e.g., In Progress, No Progress, Ongoing Capability, or Completed) If in progress or completed, please describe the funding source, cost and who is implementing.	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)? Yes/No		
				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.
			opportunities will be explored			
Twp. Edgewater Park-6 (former EP-6)	Evaluate benefits of participating in CRS program	Twp. Committee; Planning	Completed (Not joining at this time as there is a lack of properties within flood prone areas).	No	N/A	N/A
Twp. Edgewater Park-7 (former EP-7)	Conduct and facilitate community and public education and outreach for residents and businesses to promote natural hazard risk reduction to include: <ul style="list-style-type: none"> Disaster preparedness Hazard mitigation 	Municipality with support from Planning Partners, County Planning, NJOEM, FEMA	Ongoing Capability	Yes	Public education and outreach continues to be ongoing	Lead: Municipality Support: Edgewater OEM, Planning Partners, County Planning, NJOEM, FEMA
Twp. Edgewater Park-8 (former EP-9)	Obtain and install backup power sources at critical facilities.	Municipality with support from County, NJOEM and FEMA	Completed	No	N/A	N/A
Twp. Edgewater Park-9 (former EP-13)	Enhance resilience to severe storms by joining the NOAA "Storm Ready" program.	Municipality with support from County, NJOEM and FEMA	In Progress	Yes	Edgewater Park is currently in the process of completing all criteria to join the StormReady Program	Lead: Edgewater Park OEM, Support: County, NJOEM, and FEMA



Project #	Project	Responsible Party	What is the status? (e.g., In Progress, No Progress, Ongoing Capability, or Completed) If in progress or completed, please describe the funding source, cost and who is implementing.	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)? 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.
Twp. Edgewater Park- 10 (former EP-14)	Provide public education and outreach on proper installation and/or use of backup power	Municipal Clerk	Ongoing Capability. Public education and outreach continues to be ongoing.	No	N/A	N/A
Twp. Edgewater Park-11	Continue multi-jurisdictional planning discussions between Beverly, Delanco, and Edgewater Park to develop projects to address shared flooding concerns.	Municipality with support from Beverly, Delanco	In Progress	Yes	Edgewater Park, Beverly, and Delanco continue to work together addressing flood concerns as they arise and developing plans as necessary.	Lead: Municipality Support: Beverly and Delanco



Additional Mitigation Efforts

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

- The Township has utilized training opportunities from the County, surrounding municipalities, and the State for its first responders.

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

- Staff training

Proposed Hazard Mitigation Initiatives for the HMP Update

The Township of Edgewater Park 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.

Table 9.13-16. Analysis of Mitigation Actions by Hazard and Category

Hazard	FEMA						CRS				
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES	
Dam Failure	X	X		X	X		X			X	
Disease Outbreak	X	X		X	X		X			X	
Drought	X	X		X	X		X			X	
Earthquake	X	X		X	X		X			X	
Extreme Temperatures	X	X		X	X		X			X	
Flood	X	X		X	X		X		X	X	
Severe Weather	X	X		X	X	X	X		X	X	
Severe Winter Weather	X	X		X	X		X		X	X	
Wildfire	X	X		X	X		X			X	

Note: Mitigation categories are described below the Mitigation Initiatives.



The following pages list the specific mitigation initiatives Township of Edgewater Park 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-EdgewaterPark-01. Code Coordinated Ordinance

Lead Agency:	Floodplain Administrator
Supporting Agencies:	Construction Official, Administration, NFIP State Coordinator, FEMA Regional Office
Hazard(s) of Concern:	Flood
Description of the Problem:	A recent audit of New Jersey's model ordinances by FEMA for conformance with NFIP, resulted in a review of existing local flood damage prevention ordinances. Based upon FEMA's review, specific language related to NFIP regulations was not consistent. Additionally, it was determined that better coordination was needed between the three sets of regulations that regulate development and construction in the floodplain. These regulations are: the NFIP implemented by local floodplain administrators, the New Jersey Flood Hazard Area Control Act (FHACA) implemented at the State level by the NJDEP, and the Uniform Construction Code (UCC) implemented by the local Construction Official. NJDEP used this feedback to develop a model Code Coordinated Ordinance and continues to work with municipalities to update flood damage prevention ordinances to the Code Coordinated Ordinance.
Description of the Solution:	After obtaining the appropriate review and concurrence by the NFIP State Coordinator and the FEMA Regional Office, the municipality will update and adopt the Code Coordinated Ordinance.
Estimated Cost:	Staff time
Potential Funding Sources:	Municipal budget
Implementation Timeline:	Within 5 years
Goals Met:	1, 2, 5,7
Benefits:	The updated ordinance will improve floodplain management, meet NFIP requirements, and increase resilience of new and substantially improved structures in the floodplain.
Impact on Socially Vulnerable Populations:	The action will result in better regulation of construction standards within the Special Flood Hazard Area where significant risk to socially vulnerable populations exists.
Impact on Future Development:	The action will result in stronger regulation of construction standards for future development in the Special Flood Hazard Area.
Impact on Critical Facilities/Lifelines:	Critical facilities and lifelines located in the Special Flood Hazard Area will be required to meet the same requirements as general building construction that are set forth in the ordinance.
Impact on Capabilities:	This action will improve floodplain management capabilities through better outlining of responsibilities and administrative procedures.
Climate Change Considerations:	The updated ordinance includes the State's higher standards that are in place to address heightened flood risk due to climate change such as



	those for floodway rise and mandatory freeboard have been incorporated in these new model ordinances.	
Mitigation Category:	Local Plans and Regulations	
CRS Category:	Preventative	
Priority:	High	
Alternatives:	Action	Evaluation
	No Action	Current problem exists
	Modify existing flood damage prevention ordinance	Time intensive
	Leave NFIP	Residents lose flood insurance coverage



Action 2024-EdgewaterPark-02. 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, 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 post 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:	Medium	
Alternatives:	Action	Evaluation
	No Action	-



	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-EdgewaterPark-03. 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:	<p>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. After any disaster event, they must:</p> <ul style="list-style-type: none">• 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. <p>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.</p>
Description of the Solution:	<p>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_damage_mgmt_plan.pdf). This plan will outline responsibilities for Substantial Damage determinations, determining market value, and permit approval processes following a disaster event.</p>
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 Development:	A Substantial Damage Management Plan would include all existing, current, and future development in the municipality.	
Impact on Critical Facilities/Lifelines:	A Substantial Damage Management Plan would include all critical facilities and lifelines in the municipality.	
Impact on Capabilities:	This action improves disaster recovery capabilities.	
Climate Change Considerations:	Climate change is likely to increase the intensity and frequency of many climate related disaster events. This action provides additional planning for disaster recovery.	
Mitigation Category:	Local Plans and Regulations	
CRS Category:	Emergency Services, Preventative	
Priority:	High	
Alternatives:	Action	Evaluation
	No Action	-
	Rely on state or federal resources following disaster events	Resources may not be available during major widespread events
	Establish MOUs with outside agencies to conduct Substantial Damage Determinations	A plan outlining responsibilities is still necessary to prevent missing important requirements



Action 2024-EdgewaterPark-04. Disease Outbreak Preparedness

Lead Agency:	Township Public Safety	
Supporting Agencies:	Township Administration	
Hazard(s) of Concern:	Disease Outbreak	
Description of the Problem:	The Township has limited training and guidance relating to how to handle and prepare for disease outbreaks, including PPE exhaustion, increased hospitalizations, and strain on emergency services.	
Description of the Solution:	The Township will partner with the County in attending State and Federal trainings relating to disease outbreak and will also develop a Public Health Plan that details how much PPE may be needed at the Township level and offers guidance to emergency services and hospital staff on how to handle increased hospitalizations.	
Estimated Cost:	Staff Time	
Potential Funding Sources:	Municipal Budget	
Implementation Timeline:	2 Years	
Goals Met:	1	
Benefits:	The Township will be better prepared to handle potential disease outbreak.	
Impact on Socially Vulnerable Populations:	Socially vulnerable populations will be more informed and educated as it relates to disease outbreak. The elderly, sick, and young are more at risk for disease outbreaks.	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	Emergency Services will have guidance on how to support medical staff and ensure that residents stay protected.	
Impact on Capabilities:	Increases Township capability on how to handle disease outbreak.	
Climate Change Considerations:	N/A	
Mitigation Category	Local Plans and Regulations	
CRS Category	Emergency Services	
Priority	Medium	
Alternatives	Action	Evaluation
	No Action	-
	Follow a county health plan	Not specific to Township, including specifics to hospitals
	Follow guidance from CDC when applicable	Guidance may be delayed and will be blanket issued from the federal government.



Action 2024-EdgewaterPark-05. EOC and Sheltering

Lead Agency:	Township Administration	
Supporting Agencies:	Township Public Works	
Hazard(s) of Concern:	Dam Failure, Disease Outbreak, Drought, Earthquake, Extreme Temperature, Flood, Severe Weather, Severe Winter Weather, Wildfire	
Description of the Problem:	The Township does not currently have a building that can be used as an Emergency Operations Center and as a heating and cooling shelter as needed.	
Description of the Solution:	The Township will evaluate the feasibility and cost effectiveness of designing a new building to be used as an Emergency Operations Center and as heating and cooling shelter. The Township will then acquire funding to create and maintain the building.	
Estimated Cost:	TBD	
Potential Funding Sources:	HMGP, CDBG, EOC Grant Program, Municipal Budget	
Implementation Timeline:	Less than 5 Years	
Goals Met:	1, 2, 5, 6, 7	
Benefits:	The Township will have a homebase during hazard events and will also have a building that has heating and cooling sheltering capabilities.	
Impact on Socially Vulnerable Populations:	Socially Vulnerable populations will have sheltering capabilities.	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	An EOC building/shelter will help prepare critical facilities/lifelines for hazard impacts.	
Impact on Capabilities:	EOC increases Township capabilities to handle hazards.	
Climate Change Considerations:	Storms are increasing in frequency and severity due to climate change.	
Mitigation Category	Structure and Infrastructure Project	
CRS Category	Emergency Services	
Priority	High	
Alternatives	Action	Evaluation
	No action	The Township will continue to not have a designated EOC
	Rent a space	The space may not be availability during an emergency
	Use another government building	The room may be occupied or impacted by the emergency event



Action 2024-EdgewaterPark-06. Public Education and Outreach

Lead Agency:	OEM
Supporting Agencies:	Planning Partners, County Planning, NJOEM, FEMA
Hazard(s) of Concern:	Dam Failure, Disease Outbreak, Drought, Earthquake, Extreme Temperature, Flood, Severe Weather, Severe Winter Weather, Wildfire
Description of the Problem:	Residents and business may not be informed on hazard risks or how to mitigate the risks associated with the hazards which may impact the Township.
Description of the Solution:	<p>Conduct and facilitate community and public education and outreach for residents and businesses to include, but not be limited to, the following to promote and effect natural hazard risk reduction:</p> <ul style="list-style-type: none">• Provide and maintain links to the HMP website, and regularly post notices on the County/municipal homepage(s) referencing the HMP webpages.• Prepare and distribute informational letters to flood vulnerable property owners and neighborhood associations, explaining the availability of mitigation grant funding to mitigate their properties, and instructing them on how they can learn more and implement mitigation.• Use email notification systems and newsletters to better educate the public on flood insurance, the availability of mitigation grant funding, and personal natural hazard risk reduction measures.• Work with neighborhood associations, civic and business groups to disseminate information on flood insurance and the availability of mitigation grant funding.
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 the hazards which may occur in the Township, how to mitigate the risk associated with those hazards, potentially increase the number of flood-insured residents, potentially decrease the number of homes at risk to flooding impacts.
Impact on Socially Vulnerable Populations:	Socially vulnerable populations are often the most at-risk to hazards due to pre-existing conditions and socioeconomic status. This action will educate and inform all populations, including the socially vulnerable, on the hazards which may occur in the Township and how to mitigate the risk associated with those hazards.
Impact on Future Development:	N/A
Impact on Critical Facilities/Lifelines:	N/A



Impact on Capabilities:	N/A	
Climate Change Considerations:	Climate change is likely to increase the intensity and frequency of many climate related disaster events.	
Mitigation Category	Education and Awareness Programs	
CRS Category	Public Information	
Priority	High	
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-EdgewaterPark-07. Lightning System Upgrades

Lead Agency:	Edgewater Park Sewerage	
Supporting Agencies:	Township Administration	
Hazard(s) of Concern:	Severe Weather	
Description of the Problem:	Edgewater Park Sewerage noted prior impacts from Superstorm Sandy and concerns with lightning from severe weather events impacting services.	
Description of the Solution:	Upgrade and improve lightning systems on buildings.	
Estimated Cost:	Medium	
Potential Funding Sources:	Municipal budget	
Implementation Timeline:	2 years	
Goals Met:	2	
Benefits:	This action will reduce potential lightning impacts to the sewerage facility during severe weather events.	
Impact on Socially Vulnerable Populations:	N/A	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	This action will ensure continuity of operations for the capabilities of this critical facility.	
Impact on Capabilities:	This action will ensure continuity of operations for the capabilities of this critical facility.	
Climate Change Considerations:	Climate change is likely to increase the intensity and frequency of many climate related disaster events, including severe weather events.	
Mitigation Category	Structure and Infrastructure Projects	
CRS Category	Property Protection	
Priority	Medium	
Alternatives	Action	Evaluation
	No Action	Current problem remains
	Lower height of structure	Cost and functionally prohibitive
	Install generator back-up	Generator may be impacted by lightning strike



Action 2024-EdgewaterPark-08. Delaware River Flood Mitigation

Lead Agency:	OEM	
Supporting Agencies:	Planning Partners, County Planning, NJOEM, FEMA	
Hazard(s) of Concern:	Flood	
Description of the Problem:	When the Delaware River floods, it is mostly residential roads impacted, including a low-lying bridge which spans from Warren Street to Beverly Road. On occasion, the Canoe Club, a historic site, will flood.	
Description of the Solution:	Work with partnering agencies to identify feasible mitigation measures to provide relief from flooding impacts caused by the Delaware River.	
Estimated Cost:	High	
Potential Funding Sources:	FEMA BRIC, HMGP	
Implementation Timeline:	5 years	
Goals Met:	2	
Benefits:	This action would reduce the flooding impacts felt by the Township from the Delaware River.	
Impact on Socially Vulnerable Populations:	This action will assist socially vulnerable populations whose properties are impacted by flooding from the Delaware River. Furthermore, this action will assist in keeping roadways clear of flood waters for the populations which may need to attend medical appointments or require medical attention from first responders.	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	This action would assist in the reduction of roadway flooding from the Delaware River, permitting first responders to traverse the roadways safely.	
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. Sea level rise associated with climate change may cause water levels in the tidal Delaware River to increase.	
Mitigation Category	Structure and Infrastructure Projects	
CRS Category	Structural Flood Control Projects	
Priority	Medium	
Alternatives	Action	Evaluation
	No Action	Current problem continues
	Built seawall	Cost prohibitive



	Implement green infrastructure to restore natural floodplain function	May be insufficient space for green infrastructure to be effective
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Action 2024-EdgewaterPark-09. Bogg's Run Flooding

Lead Agency:	Engineering	
Supporting Agencies:	Delanco, Edgewater Park OEM, County OEM, NJ Transit	
Hazard(s) of Concern:	Flood, Severe Weather, Severe Winter Weather	
Description of the Problem:	Flooding occurs due to less than sufficient capacity of culverts at the Light Rail Line and Burlington Avenue which negatively impacts nearby homes and properties.	
Description of the Solution:	The Township will conduct a study to determine the correct sized culverts needed to reduce flooding at Bogg's Run and the surrounding homes and properties. After a study is complete, the Township will acquire the funding for the construction and implementation of new culverts at Light Rail Line and Burlington Avenue. The Township will conduct routine maintenance on the culverts.	
Estimated Cost:	TBD after Study	
Potential Funding Sources:	HMGP, FMA, Township Budget	
Implementation Timeline:	Within 5 years	
Goals Met:	2, 4, 5	
Benefits:	The completion of this action will lead to reduced flooding at Bogg's Run as well as the surrounding homes and properties.	
Impact on Socially Vulnerable Populations:	Socially vulnerable populations may not have flood insurance and may not have the funds to repair homes/assets that are damaged by flooding. This action would reduce flooding issues and therefore reduce the amount of homes/assets that are affected by flooding.	
Impact on Future Development:	This action reduces flooding in the area which may make the area more appealing for future development.	
Impact on Critical Facilities/Lifelines:	Any critical facilities/lifelines that may be located at or around Bogg's Run will experience a reduction of flooding issues.	
Impact on Capabilities:	This action increases the Township's capability to handle flooding issues.	
Climate Change Considerations:	Climate change is leading to an increase in intensity and frequency of precipitation events, which can lead to an increase in flooding.	
Mitigation Category	Structure and Infrastructure Projects	
CRS Category	Structural Flood Control Projects	
Priority	High	
Alternatives	Action	Evaluation
	No Action	Current problem continues
	Increased municipal flood services	The flood issue continues



	Elevate all properties and homes	Not as cost effective as reconstructing the culverts
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Action 2024-EdgewaterPark-10. Hendrickson Avenue Flooding

Lead Agency:	Engineer	
Supporting Agencies:	Edgewater OEM, Edgewater DPW, County OEM	
Hazard(s) of Concern:	Flood, Severe Weather, Severe Winter Weather	
Description of the Problem:	Hendrickson Avenue and surrounding properties are inundated by water during large storm events. The hazard was minimized through completion of the Roosevelt Pump Station project, however during large storm events, the problem continues to persist.	
Description of the Solution:	Removing the separating embankment between the Adams Avenue Basins would reduce flooding problems	
Estimated Cost:	TBD after Study	
Potential Funding Sources:	HMGP, FMA	
Implementation Timeline:	Within 5 Years	
Goals Met:	2, 4, 5	
Benefits:	Hendrickson Avenue will not have as many flood related issues.	
Impact on Socially Vulnerable Populations:	Socially vulnerable populations may not have flood insurance and may not have the funds to repair homes/assets that are damaged by flooding. This action would reduce flooding issues and therefore reduce the amount of homes/assets that are affected by flooding.	
Impact on Future Development:	This action reduces flooding in the area which may make the area more appealing for future development.	
Impact on Critical Facilities/Lifelines:	Any critical facilities/lifelines that may be located at or near the Hendrickson Avenue will experience a reduction of flooding issues.	
Impact on Capabilities:	This action increases the Township's capability to handle flooding issues.	
Climate Change Considerations:	Climate change is leading to an increase in intensity and frequency of precipitation events, which can lead to an increase in flooding.	
Mitigation Category	Structure and Infrastructure Projects	
CRS Category	Structural Flood Control Projects	
Priority	High	
Alternatives	Action	Evaluation
	No Action	Current problem continues
	Increased municipal flood services	The flood issue continues
	Elevate all properties and homes	Not as cost effective as reconstructing the culverts



Action 2024-EdgewaterPark-11. Automated Pump Stations

Lead Agency:	Engineer	
Supporting Agencies:	Edgewater OEM, Edgewater DPW, County OEM	
Hazard(s) of Concern:	Flood, Severe Weather, Severe Winter Weather	
Description of the Problem:	The Adams Avenue Basins do not have an automated pump station equipped with a backup generator, which can be used during any event that may cause a power outage.	
Description of the Solution:	The Township will install an automated pump station that is equipped with backup power to ensure that the station can run during power outages.	
Estimated Cost:	TBD after engineer study	
Potential Funding Sources:	HMGP, FMA, Township Budget	
Implementation Timeline:	Within 5 Years	
Goals Met:	2, 5, 6	
Benefits:	The Township's pump station will be able to run during power outages.	
Impact on Socially Vulnerable Populations:	Socially vulnerable populations may not have flood insurance and may not have the funds to repair homes/assets that are damaged by flooding. This action would reduce flooding issues and therefore reduce the amount of homes/assets that are affected by flooding.	
Impact on Future Development:	This action reduces flooding in the area which may make the area more appealing for future development.	
Impact on Critical Facilities/Lifelines:	Any critical facilities/lifelines that may be located at or near the Hendrickson Avenue will experience a reduction of flooding issues.	
Impact on Capabilities:	This action increases the Township's capability to handle flooding issues.	
Climate Change Considerations:	Climate change is leading to an increase in intensity and frequency of precipitation events, which can lead to an increase in flooding.	
Mitigation Category	Structure and Infrastructure Projects	
CRS Category	Structural Flood Control Projects	
Priority	High	
Alternatives	Action	Evaluation
	No Action	Current problem continues
	Increased municipal flood services	The flood issue continues
	Elevate all properties and homes	Not as cost effective as reconstructing the culverts



Action 2024-EdgewaterPark-12. Stormwater Infrastructure

Lead Agency:	Engineer	
Supporting Agencies:	Edgewater OEM, County OEM	
Hazard(s) of Concern:	Flood, Severe Weather, Severe Winter Weather	
Description of the Problem:	Stormwater infrastructure needs to be expanded due to an undersized basin, which requires pumping to alleviate free board capacity. This project is currently in progress and is schedules for the 5-year Capital Improvement Plan.	
Description of the Solution:	The Township will expand stormwater infrastructure and construct a discharge line and construct an automated pump station with a backup generator.	
Estimated Cost:	\$1,000,000	
Potential Funding Sources:	HMGP, FMA, Township Budget	
Implementation Timeline:	Within 5 Years	
Goals Met:	1, 2, 5, 6	
Benefits:	The Township will experience reduced flooding due to the increased stormwater infrastructure capacity.	
Impact on Socially Vulnerable Populations:	Socially vulnerable populations may not have flood insurance and may not have the funds to repair homes/assets that are damaged by flooding. This action would reduce flooding issues and therefore reduce the amount of homes/assets that are affected by flooding.	
Impact on Future Development:	This action reduces flooding in the area which may make the area more appealing for future development.	
Impact on Critical Facilities/Lifelines:	Any critical facilities that are located within the Township may experience reduced flooding due to an expanded stormwater infrastructure.	
Impact on Capabilities:	This action increases the Township's capability to handle flooding issues.	
Climate Change Considerations:	Climate change is leading to an increase in intensity and frequency of precipitation events, which can lead to an increase in flooding.	
Mitigation Category	Structure and Infrastructure Projects	
CRS Category	Structural Flood Control Projects	
Priority	High	
Alternatives	Action	Evaluation
	No Action	Current problem continues
	Increased municipal flood services	The flood issue continues
	Elevate all properties and homes	Not as cost effective as reconstructing the culverts



Action 2024-EdgewaterPark-13. NOAA StormReady

Lead Agency:	Edgewater Part OEM
Supporting Agencies:	County, NJOEM, FEMA
Hazard(s) of Concern:	Severe Weather, Severe Winter Weather
Description of the Problem:	The National Weather Service (NWS) provides a certification called StormReady to locales that adopt certain weather preparedness principles and planning. The Township does not participate in NOAA's StormReady program.
Description of the Solution:	The Township will coordinate with the local NWS office to complete all necessary requirements to become a StormReady community.
Estimated Cost:	Low
Potential Funding Sources:	Municipal Budget
Implementation Timeline:	3 years
Goals Met:	1, 2, 3, 5, 6
Benefits:	StormReady is a nationwide program that helps communities better protect their citizens during severe weather. The program encourages communities to take a proactive approach to improving local hazardous weather operations. StormReady provides emergency managers with clear-cut guidelines on how to improve their hazardous weather operations. Community Rating System (CRS) points will become available that can reduce flood insurance premiums for home and business owners.
Impact on Socially Vulnerable Populations:	To become a participant in the StormReady program, a community must have more than one way to receive severe weather warnings and forecasts and to alert the public. Increasing methods of communication to socially vulnerable populations can assist in the safety and security of residents.
Impact on Future Development:	This action will result in increased warning system capabilities for all current and future development.
Impact on Critical Facilities/Lifelines:	Being a part of the StormReady program would result in improved critical facility readiness.
Impact on Capabilities:	Participating in the StormReady program will increase the capabilities of the Township. To become a participant in the program, a community must establish a 24-hour warning point and emergency operations center, have more than one way to receive severe weather warnings and forecasts and to alert the public, create a system that monitors weather conditions locally, promote the importance of public readiness through community seminars, and develop a formal hazardous weather plan, which includes training severe weather spotters and holding emergency exercises.



Climate Change Considerations:	Climate change is likely to increase the intensity and frequency of many climate related disaster events. This action will increase emergency response capabilities to increasing storm risks.	
Mitigation Category	Local Plans and Regulations, Education and Awareness Programs	
CRS Category	Emergency Services, Preventative Measures	
Priority	High	
Alternatives	Action	Evaluation
	No Action	Current problem continues
	Complete half of the program requirements	The Township would not be eligible to participate in the Storm Ready Program
	Participate in the program, but do not utilize resources	The Township would miss opportunities to strengthen communication and safety skills



Action 2024-EdgewaterPark-14. Multi-Jurisdictional Support

Lead Agency:	Edgewater Township Administration	
Supporting Agencies:	Beverly, Delanco	
Hazard(s) of Concern:	Dam Failure, Disease Outbreak, Drought, Earthquake, Extreme Temperature, Flood, Severe Weather, Severe Winter Weather, Wildfire	
Description of the Problem:	The Township needs additional support to address the hazards of concern that are identified in the Hazard Mitigation Plan.	
Description of the Solution:	The Township will continue multi-jurisdictional planning discussions between Beverly and Delanco and will start to develop projects that address shared concerns.	
Estimated Cost:	Township Budget	
Potential Funding Sources:	HMGP, Township Budget	
Implementation Timeline:	Ongoing	
Goals Met:	1, 2, 3, 4, 6	
Benefits:	The Township will be better prepared to handle hazard events.	
Impact on Socially Vulnerable Populations:	Socially vulnerable populations will have additional support from other jurisdictions.	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	The Township can coordinate with other jurisdictions to ensure access to various critical facilities.	
Impact on Capabilities:	This action increases the Township's capability to handle mitigation issues.	
Climate Change Considerations:	Climate change is leading to an increase in intensity and frequency of precipitation events, which can lead to an increase in flooding.	
Mitigation Category	Local Plans and Regulations	
CRS Category	Preventative, Emergency Services	
Priority	High	
Alternatives	Action	Evaluation
	No Action	Current problem continues
	Outsource for additional needs	The cost may be higher to outsource and time frame to wait may be longer
	Ask County for additional support	Time frame to wait for emergencies may be longer



Action 2024- EdgewaterPark-15. Burlington County – U.S. Route 130 Corridor Climate Change-Related Hazard Vulnerability Assessment

Lead Agency:	Edgewater Park Administration
Supporting Agencies:	Burlington County Department of Public Works, NJDEP Office of Climate Resilience Resilient NJ: Municipal Assistance Program, Beverly City, Burlington City, Burlington Township, Cinnaminson Township, Delran Township, Florence Township, Palmyra Borough, Riverton Borough, Riverside Township, and Willingboro Township.
Hazard(s) of Concern:	Drought, Extreme Temperature, Flood, Severe Weather, Severe Winter Weather, Wildfire
Description of the Problem:	The municipalities along the U.S. Route 130 corridor in Burlington County are impacted primarily by riverine flooding that may be worsened by climate change. These communities along the Delaware River and its tributaries, including the Rancocas, Assiscunk, and Pompeston creeks, are frequently impacted by severe flooding events. A joint regional climate change resilience planning effort is needed to assess future risks and identify local and regional solutions.
Description of the Solution:	<p>The NJ DEP will engage consultants on behalf of the communities to complete this work. The resilience planning process to develop the Climate Change-Related Hazard Vulnerability Assessment (CCRHVA) involves the following:</p> <ul style="list-style-type: none">• Community engagement and outreach to plan for each municipality;• Examination of current local conditions through research and review of data, reports, plans, and other information that have shaped the community's and the region's character;• Assessments to understand the current and future local impacts of climate change; and• Identification and prioritization of appropriate strategies, design standards and other resilience actions that address and/or minimize the impacts of climate change and other natural hazards assessed in the CCRHVA. <p>In response to the vulnerabilities identified in the vulnerability assessment, potential strategies, regulations, and design standards that could be implemented to reduce, mitigate, or avoid risks, as well as increase resilience will be identified. Considerations include land use strategies, design standards/ building codes, zoning ordinances, and programming. Resilience actions appropriate for the county or other state/regional entities, and those where cooperation/ coordination by multiple municipalities, if necessary, will be identified in addition to municipal-specific actions. For each action, responsible parties, estimated rough costs for implementation (if applicable), possible sources of funding, and the estimated timelines will be identified.</p>
Estimated Cost:	\$760,000 for full region
Potential Funding Sources:	NOAA through the New Jersey Coastal Management Program
Implementation Timeline:	Within 3 years
Goals Met:	1, 2, 3, 4, 5, 6, 7
Benefits:	<p>This effort will result in the following benefits:</p> <ul style="list-style-type: none">• Current and future threats to, and vulnerabilities of, each municipality associated with climate-related hazards, including,



	<p>but not limited to, increased temperatures, drought, all types of flooding, hurricanes, increased risk of fire, and sea-level rise will be analyzed.</p> <ul style="list-style-type: none"> • Assess the threats to, and vulnerabilities of, socially vulnerable populations will be assessed and actions to address the impacts will be identified. • A buildout analysis of future residential, commercial, industrial, and other development in each municipality, and an assessment of the threats and vulnerabilities to that development will be developed • Critical facilities, utilities, roadways, and infrastructure necessary for evacuation purposes and sustaining quality of life during a natural disaster and immediately thereafter will be identified. • Potential impacts of natural hazards on the relevant elements of each individual master plan will be analyzed. Considerations include community facilities plans, open space, housing, economic development, circulation/ transportation, sustainability, health, capital improvements, redevelopment, etc. • Potential strategies and design standards that could be implemented to reduce or avoid risks associated with natural hazards will be identified.
Impact on Socially Vulnerable Populations:	This effort will assess the potential risks and impacts of hazards on socially vulnerable and underserved populations and describe how they may exacerbate disadvantages. Actions will be developed to reduce risks for these populations.
Impact on Future Development:	The assessments will include a geographically based build-out analysis of current and future residential, commercial, industrial, and other development in each municipality on developed, underdeveloped, and undeveloped land, to inform an assessment of the exposure and vulnerabilities of those land uses in relation to the hazards identified.
Impact on Critical Facilities/Lifelines:	The assessments will identify and assess the exposure and vulnerability of critical facilities, systems, utilities, roadways, and other infrastructure necessary for evacuation purposes and sustaining quality of life during and immediately after a natural disaster. The assessments will also identify and assess the exposure and vulnerability of community assets important to community character, regional significance, and sustaining daily quality of life (e.g. neighborhood centers, gas stations, and grocery stores). This includes but is not limited to natural resources and systems, economic assets, social, cultural, government, or professional services, and other community priorities be assessed. Access to important and critical assets and services located outside of the municipalities should also be evaluated as well as community liabilities that have the potential to cause harm, such as contaminated sites.
Impact on Capabilities:	This effort will allow for incorporation of climate resilience into municipal master plans to enhance planning and regulatory capabilities.
Climate Change Considerations:	Climate change is likely to increase the frequency and severity of climate related events. This project will include a comprehensive assessment of the vulnerability to current and future climate change-related hazards of the entire multi-municipal region as well as for each of the individual municipalities. The vulnerability assessment will consider all climate change impacts through 2100.
Mitigation Category	Local Plans and Regulations



CRS Category	Preventative Measures	
Priority	High	
Alternatives:	Action	Evaluation
	No Action	-
	Elect not to participate in program but develop municipal specific CCRHVA	Costly and lacking regional coordination
	Elect not to participate in program but develop municipal specific assessment without climate change impacts	Costly, lacking regional coordination, and not meeting state requirements



Action 2024- EdgewaterPark-16. Social Media and Meeting Outreach

Lead Agency:	Edgewater Park Administration	
Supporting Agencies:	OEM, NJOEM	
Hazard(s) of Concern:	Dam Failure, Disease Outbreak, Drought, Earthquake, Extreme Temperature, Flood, Severe Weather, Severe Winter Weather, Wildfire	
Description of the Problem:	The Township residents are unaware of hazard mitigation principles and best practices and the Township does not have social media set up to share hazard related information and to send out hazard warnings.	
Description of the Solution:	The Township will prepare routine meetings to educate the public on hazard mitigation principles and will also create social media to share hazard related information and warnings.	
Estimated Cost:	Staff Time	
Potential Funding Sources:	HMGP, Township Budget	
Implementation Timeline:	Ongoing	
Goals Met:	1, 3, 5	
Benefits:	The Township residents will be better prepared to handle hazard events.	
Impact on Socially Vulnerable Populations:	Socially vulnerable populations may not speak English and can use a translator on social media, and those that may not have access to technology can attend support meetings.	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	N/A	
Impact on Capabilities:	This action improves the Township's capabilities to distribute hazard information.	
Climate Change Considerations:	Climate change is increasing the intensity and frequency of precipitation events.	
Mitigation Category	Education and Awareness Program	
CRS Category	Public Information	
Priority	High	
Alternatives:	Action	Evaluation
	No Action	-
	Rely on County outreach	County outreach may not span as widely as local Township outreach would
	Rely on FEMA for a warning signal	FEMA may not be notified of more localized hazards until later on



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 9.13-17. 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-EdgewaterPark-01	Code Coordinated Ordinance	1	1	1	1	1	1	1	1	1	0	1	1	0	0	11	High
2024-EdgewaterPark-02	Disaster Debris Management Plan	0	0	1	1	1	1	0	0	1	1	1	1	0	1	9	Medium
2024-EdgewaterPark-03	Substantial Damage Management Plan	0	1	1	1	1	1	0	1	1	1	1	1	1	0	11	High
2024-EdgewaterPark-04	Disease Outbreak Preparedness	1	0	1	1	1	1	0	1	1	0	0	1	0	1	9	Medium
2024-EdgewaterPark-05	EOC and Sheltering	1	1	1	1	1	0	0	1	1	1	1	1	1	0	11	High
2024-EdgewaterPark-06	Public Education and Outreach	1	1	1	1	1	1	0	1	1	1	1	1	0	0	11	High
2024-EdgewaterPark-07	Lightning System Upgrades	0	1	1	1	1	1	0	0	1	0	1	1	1	0	9	Medium
2024-EdgewaterPark-08	Delaware River Flood Mitigation	0	1	1	1	1	0	1	0	1	0	1	1	0	1	9	Medium
2024-EdgewaterPark-09	Bogg's Run Flooding	1	1	1	1	1	1	0	1	1	1	1	1	1	0	12	High
2024-EdgewaterPark-10	Hendrickson Avenue Flooding	1	1	1	1	1	1	0	1	1	1	1	1	1	0	12	High
2024-EdgewaterPark-11	Automated Pump Stations	1	1	1	1	1	1	0	1	1	1	1	1	1	0	12	High
Action 2024-EdgewaterPark-12	Stormwater Infrastructure	1	1	1	1	1	1	0	1	1	1	1	1	1	0	12	High



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
Action 2024-EdgewaterPark-13	NOAA StormReady	1	1	1	1	1	1	1	1	1	1	1	1	0	0	12	High
Action 2024-EdgewaterPark-14	Multi-Jurisdictional Support	1	1	1	1	1	1	0	1	1	1	1	1	1	1	13	High
Action 2024-EdgewaterPark-15	Burlington County – U.S. Route 130 Corridor Climate Change-Related Hazard Vulnerability Assessment	1	1	1	1	1	1	1	1	1	1	1	1	1	0	13	High
Action 2024-EdgewaterPark-16	Social Media and Meeting Outreach	1	0	1	1	1	1	0	1	1	1	1	1	0	1	11	High

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