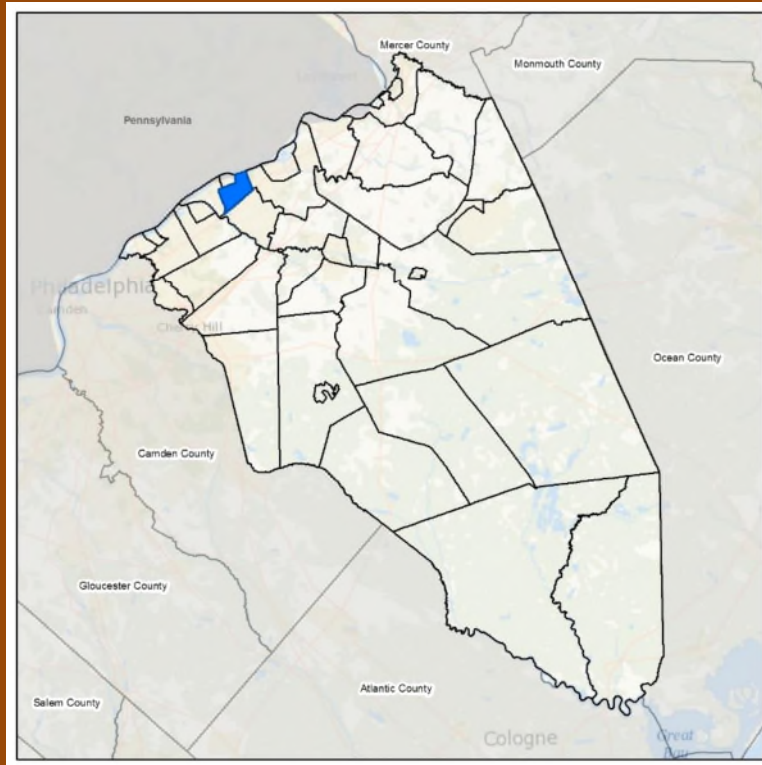




MUNICIPAL ANNEX | Edgewater Park Township



Total Population
(2010 Census)

8,881



Total Land
(square miles)

3.1



Total Number of
Buildings

2,567

Percent of Buildings
in Regulatory
Floodplain

<1%




Number of National
Flood Insurance
Program (NFIP) Policies
and Percent in
Regulatory Floodplain

10 (0%)


Number of Repetitive
Loss (RL/SRL)
Properties

0 / 0




Total Agricultural Land
(square miles)

0.3



Percent of Land on
Steep Slopes (>15%)

1%



Proposed
Project
Types

Structure and Infrastructure
Projects, Education and
Awareness Programs, Local
Plans and Regulations, and
Natural Systems Protection



Mitigation
Focus

Flood
Severe Storm



9.13 Township of Edgewater Park

This section presents the jurisdictional annex for the Township of Edgewater Park.

9.13.1 Hazard Mitigation Plan Point of Contact

The following individuals have been identified as the hazard mitigation plan’s primary and alternate points of contact.

Primary Point of Contact	Alternate Point of Contact
Darrell Booker, OEM Coordinator 400 Delanco Road, Edgewater Park, NJ 08010 609.220.3884 dbooker@edgewaterpark-nj.com	Chief Gene Di Filippo, Police Chief/Acting Twp. Administrator 400 Delanco Road, Edgewater Park, NJ 08010 856.986.2372 g_difilippo@edgewaterpark-nj.com

9.13.2 Municipal Profile

Located along the Delaware River in northern Burlington County, the Township of Edgewater Park is bordered by Burlington Township to the east, Willingboro to the south, 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. According to the 2010 Census, the community's population was 8,881. 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.

Growth/Development Trends

The following table summarizes recent residential/commercial development since 2013 to present and any known or anticipated major residential/commercial development and major infrastructure development that has been identified in the next five years within the municipality. Refer to the map in 9.13.8 of this annex which illustrates the hazard areas along with the location of potential new development.

Table 9.13-1. Growth and Development

Property or Development Name	Type (e.g. Res., Comm.)	# of Units / Structures	Location (address and/or Parcel ID)	Known Hazard Zone(s)	Description/Status of Development
Recent Development from 2013 to present					
Fox Run Development	Res	100	1238 Cooper Street	None	In Phase 3 of 3
Burlington Coat Factory Truck Lot	Com	N/A	Delanco Road	None	Completed
Bottom Dollar/Aldi	Com	1	Rt 130 Edgewater Park, NJ	None	Completed
Known or Anticipated Development in the Next Five (5) Years					
The Learning Center	Com	1	Rt 130 Edgewater Park, NJ	None	Pre-construction phase

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



9.13.3 Natural Hazard Event History Specific to the Municipality

Burlington County has a history of natural and non-natural hazard events as detailed in Volume I, Section 5.0 of this plan. 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. For the purpose of this plan update, events that have occurred in the County from 2013 to present were summarized to indicate the range and impact of hazard events in the community. Information regarding specific damages is included, if available, based on reference material or local sources. This information is presented in the table below. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.

Table 9.13-2. Hazard Event History

Dates of Event	Event Type (Disaster Declaration if applicable)	Burlington County Designated?	Summary of Damages/Losses
April 30-May 1, 2014	Heavy Rain and Flooding	N/A	Heavy rain caused considerable poor drainage and creek flooding in the northern Burlington County. Rancocas Creek was hit the hardest by flooding. Many roads were flooded and closed. Approximately \$1 million in property damage in the County.
June 23, 2015	Severe Storm (DR-4231)	Yes	\$10 million in property damage in the County (\$8 million in Medford, \$1 million in Mt Laurel and \$1 million in Medford Lakes)
January 22-24, 2016	Severe Winter Storm (DR-4264)	Yes	Heavy snow fell throughout the County; snowfall totals ranged from 12 inches to 16.4 inches.

Notes:

- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)
- N/A Not applicable

9.13.4 Hazard Vulnerabilities and Ranking

The hazard profiles in Section 5.0 of this plan have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the hazard vulnerabilities and their ranking in the Township of Edgewater Park. For additional vulnerability information relevant to this jurisdiction, refer to Section 5.0.

Hazard Risk/Vulnerability Risk Ranking

The table below summarizes the hazard risk/vulnerability rankings of potential hazards for the Township of Edgewater Park.

Table 9.13-3. Hazard Risk/Vulnerability Risk Ranking

Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard ^{a, c}	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking ^b
Coastal Erosion	RCV Exposed to CE Hazard Area: \$5,405,259	Rare	6	Low
Drought	Damage estimate not available.	Frequent	30	Medium
Earthquake	100-Year GBS: \$0 500-Year GBS: \$1,406,874 2,500-Year GBS: \$20,723,715	Occasional	28	Medium





Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard ^{a, c}	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking ^b
Flood	1% Annual Chance: \$1,159,758	Frequent	18	Medium
Landslide	RCV Exposed to Landslide Hazard Area \$2,307,285,215	Occasional	36	High
Severe Storm	100-year MRP: \$1,072,498 500-year MRP: \$11,983,371 Annualized: \$74,005	Frequent	48	High
Severe Winter Weather	1% GBS: \$14,579,743 5% GBS: \$72,898,713	Frequent	51	High
Wildfire	Estimated Value in the Extreme, Very High, and High Hazard Areas: \$4,201,130	Occasional	12	Low

Notes:

- a. Building damage ratio estimates based on FEMA 386-2 (August 2001)
- b. The valuation of general building stock and loss estimates was based on custom inventory for the municipality.
High = Total hazard priority risk ranking score of 31 and above
Medium = Total hazard priority risk ranking of 20-30+
Low = Total hazard risk ranking below 20
- c. Loss estimates for the severe storm and severe winter storm hazards are structural values only and do not include the value of contents.
- d. Loss estimates for the flood and earthquake hazards represent both structure and contents.
- e. The HAZUS-MH earthquake model results are reported by Census Tract.

National Flood Insurance Program (NFIP) Summary

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

Table 9.13-4. NFIP Summary

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 100-year Boundary (3)
Township of Edgewater Park	9	5	\$35,201.23	0	0	0

Source: FEMA Region 2 2017, 2018

- (1) Repetitive loss and severe repetitive loss statistics provided by FEMA Region 2 and are current as of 10/31/2017. Policy and claims statistics current as of 9/30/2018
Please note the total number of repetitive loss properties does not include the severe repetitive loss properties. The number of claims represents claims closed by 9/30/2018.
- (2) Total building and content losses from the claims file provided by FEMA Region 2.
- (3) The policies inside and outside of the flood zones are based on the addresses geocoded from the FEMA Region 2 policy file – 10/31/2017.

Notes: FEMA noted that where there is more than one entry for a property, there may be more than one policy in force or more than one GIS possibility.
A zero percentage denotes less than 1/100th percentage and not zero damages or vulnerability as may be the case.

Critical Facilities

The table below presents Hazards United States (HAZUS) – Multi-Hazards (MH) estimates of the damage and loss of use to critical facilities in the community as a result of a 1-percent annual chance flood event.



Table 9.13-5. Potential Flood Losses to Critical Facilities

Name	Type	Exposure		Potential Loss from 1% Flood Event	
		1% Event	0.2% Event	Percent Structure Damage	Percent Content Damage
None identified.					

Source: FEMA 2017, Burlington County

Note: - = Damages not calculated by HAZUS-MH v4.0

Other Vulnerabilities Identified

The municipality has not identified any vulnerabilities within their community.

9.13.5 Capability Assessment

This section identifies the following capabilities of the local jurisdiction:

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Community classification
- National Flood Insurance Program
- Integration of mitigation planning into existing and future planning mechanisms

Planning and Regulatory Capability

The table below summarizes the regulatory tools that are available to the Township of Edgewater Park.

Table 9.13-6. Planning and Regulatory Tools

Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Planning Capability				
Master Plan	Yes (2007)	-	Planning Board, Township Committee	-
Capital Improvements Plan	Yes	-	-	Annual Budget
Floodplain Management / Basin Plan	Yes	-	Township Committee	-
Stormwater Management Plan	No	-	-	-
Open Space Plan	Yes (2000)	-	Township Committee	-
Stream Corridor Management Plan	Yes	-	-	-
Watershed Management or Protection Plan	Yes (2007)	-	Planning Board, Township Committee	Title 16 Chapter 16.200
Economic Development Plan	Yes	-	Planning Board, Township Committee	-
Comprehensive Emergency Management Plan	Yes (2000)	-	Township Committee, OEM	-



Section 9.13: Township of Edgewater Park

Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Emergency Operation Plan	No	-	-	-
Post-Disaster Recovery Plan	No	-	-	-
Transportation Plan	No	-	-	-
Strategic Recovery Planning Report	No	-	-	-
Other Plans:	No	-	-	-
Regulatory Capability				
Building Code	Yes (1997)	State & Local	Construction/Inspections	Title 15, Chapter 15.04
Zoning Ordinance	Yes (2006)	Local	Planning Board, Township Committee, Zoning Officer	Title 16 Ordinance 17-2006
Subdivision Ordinance	Yes (2006)	Local	Planning Board, Township Committee, Zoning Officer	Title 16 Ordinance 17-2006
NFIP Flood Damage Prevention Ordinance	Yes	Federal, State, Local	-	-
NFIP: Cumulative Substantial Damages	No	-	-	-
NFIP: Freeboard	Yes	State, Local	-	-
Growth Management Ordinances	Yes (2000)	Local	Planning Board, Township Committee	Master Plan
Site Plan Review Requirements	Yes (2006)	Local	Inspections, Professional Services	Title 16 Chapter 62-65
Stormwater Management Ordinance	Yes (2007)	Local	Township Committee	Title 16 Chapter 16.200 Ordinance 7-2007
Municipal Separate Storm Sewer System (MS4)	No	-	-	-
Stormwater Program Ordinances <ul style="list-style-type: none"> • Pet waste • Litter Control • Improper Disposal of Waste • Wildlife Feeding • Yard Waste Collection • Illicit Connection • Private Storm Drain Retrofitting • Refuse Container / Dumpster (optional) 	Yes	Local	Township Committee	Ordinance No 12-2005, Ordinance 15-2005, Ordinance 7-2005, Ordinance 3-2006, Ordinance 5-2005
Natural Hazard Ordinance	No	-	-	-
Post-Disaster Recovery Ordinance	No	-	-	-
Real Estate Disclosure Requirement	Yes	State	-	-





Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Other (Special Purpose Ordinances [i.e., sensitive areas, steep slope])	No	-	-	-

Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Township of Edgewater Park.

Table 9.13-7. Administrative and Technical Capabilities

Resources	Is this in place? (Yes or No)	Department/ Agency/Position
Administrative Capability		
Planning Board	Yes	Planning Board
Mitigation Planning Committee	No	-
Environmental Board/Commission	Yes	Environmental Advisory Committee
Open Space Board/Committee	No	-
Economic Development Commission/Committee	Yes	Redevelopment Committee
Maintenance programs to reduce risk	No	-
Mutual aid agreements	No	-
Technical/Staffing Capability		
Planner(s) or engineer(s) with knowledge of land development and land management practices	Yes	Professional Services
Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Yes	Professional Services, Construction Code Official
Planners or engineers with an understanding of natural hazards	Yes	Professional Services
NFIP Floodplain Administrator (FPA)	Yes	Township Engineer
Surveyor(s)	Yes	Professional Services
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	Yes	Professional Services
Scientist familiar with natural hazards	No	-
Emergency Manager	Yes	Emergency Management Coordinator
Grant writer(s)	Yes	Professional Services/Staff
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	No	-

Fiscal Capability

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



Table 9.13-8. 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	Yes
Open Space Acquisition funding programs	No
Other	No

Community Classifications

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

Table 9.13-9. Community Classifications

Program	Do you have this? (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	-	-
Natural disaster/safety programs in/for schools	No	-	-
Organizations with mitigation focus (advocacy group, non-government)	No	-	-
Public education program/outreach (through website, social media)	No	-	-
Public-private partnership initiatives addressing disaster-related issues	No	-	-

Note:

- N/A Not applicable
- NP Not participating
- Unavailable

The classifications listed above relate to the community’s ability to provide effective services to lessen its vulnerability to the hazards identified. These classifications can be viewed as a gauge of the community’s capabilities in all phases of emergency management (preparedness, response, recovery and mitigation) and are used as an underwriting parameter for determining the costs of various forms of insurance. The CRS class applies to flood insurance while the BCEGS and Public Protection classifications apply to standard property insurance. CRS classifications range on a scale of 1 to 10 with class 1 being the best possible classification, and





class 10 representing no classification benefit. Firewise classifications include a higher classification when the subject property is located beyond 1000 feet of a creditable fire hydrant and is within 5 road miles of a recognized Fire Station.

Criteria for classification credits are outlined in the following documents:

- The Community Rating System Coordinators Manual
- The Building Code Effectiveness Grading Schedule
- The ISO Mitigation online ISO’s Public Protection website at <https://www.isomitigation.com/ppc/>
- The National Weather Service Storm Ready website at <http://www.stormready.noaa.gov/index.html>
- The National Firewise Communities website at <http://firewise.org/>

Self-Assessment of Capability

The table below provides an approximate measure of the Township of Edgewater Park’s capability to work in a hazard-mitigation capacity and/or effectively implement hazard mitigation strategies to reduce hazard vulnerabilities.

Table 9.13-10. Self-Assessment Capability for the Municipality

Area	Degree of Hazard Mitigation Capability		
	Limited (If limited, what are your obstacles?)*	Moderate	High
Planning and regulatory capability		X	
Administrative and technical capability		X	
Fiscal capability		X	
Community political capability		X	
Community resiliency capability		X	
Capability to integrate mitigation into municipal processes and activities		X	

National Flood Insurance Program

NFIP Floodplain Administrator (FPA)

Rakesh Darji, Township Engineer

Flood Vulnerability Summary

The Township of Edgewater Park does not maintain lists or inventories of properties that have been flood damaged. The majority of structures damaged in the past 3 years in storms have been related to fallen trees and storm sewer damage. The Township does not make substantial damage estimates. The FPA indicated that there are currently no residents interested in elevation or mitigation.

Resources

The FPA is a consultant who works with the Township Construction Office staff to accomplish the requisite tasks. NFIP administration services and functions provided to residents of Edgewater Park include permit review, GIS, inspections and damage assessments. The Township does not provide education to the community regarding flood hazards/risk or flood risk reduction due to very limited exposure. The FPA stated there are currently no barriers to running an effective floodplain management program and feels adequately supported and



trained to fulfill his responsibilities as the municipal floodplain administrator. The FPA would consider attending continuing education and certification training on floodplain management if it were offered in the future.

Compliance History

The Township is in good compliance with the NFIP. The FPA did not know when the last Community Assistance Visit was conducted.

Regulatory

According to the FPA, the Township of Edgewater Park's floodplain management ordinance exceeds the minimum set by FEMA and the State of New Jersey and was recently adopted. The FPA indicated that Planning Board Review includes evaluation of flood risk to support floodplain management. The FPA was stated the Township had considered joining the CRS program in the past but, due to limited impact, decided against joining.

Integration of Hazard Mitigation into Existing and Future Planning Mechanisms

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of this planning effort, each community was surveyed to obtain a better understanding of their community's progress in plan integration. A summary is provided below. In addition, the community identified specific integration activities that will be incorporated into municipal procedures.

Planning

Hazard Mitigation: The Township of Edgewater Park actively participated in the 5-year update of the Burlington County Hazard Mitigation Plan. The Borough continues to support the implementation, monitoring, maintenance, and updating of the plan.

Master Plan: The Master Plan for the Township of Edgewater Park was last updated in 2007. The plan includes safe growth practices.

Regulatory and Enforcement (Ordinances)

NJDEP Municipal Stormwater Regulation Program: New Jersey Department of Environmental Protection issued the statewide municipal stormwater permits that became effective January 1, 2018 and authorizes stormwater discharges from municipal separate storm sewer systems (MS4s) to the waters of the state. Municipalities that have been issued a Notice of Authorization (NOA) to discharge under the Tier A (urban and coastal municipalities) or Tier B (more rural municipalities) master general permit must develop and implement a stormwater program. The first New Jersey Pollutant Discharge Elimination System (NJPDES) permit authorizing discharges from MS4 municipalities became effective in 2004 (subsequently renewed in 2009 and now in 2018), so most municipalities have developed stormwater programs; however, the 2018 permit requires municipalities to maintain a stormwater management plan and enforce stormwater ordinances to address development and redevelopment consistent with the Stormwater Management rules at N.J.A.C 7:8, as well as implementation of additional requirements. For more information on the municipal stormwater regulation program, see http://www.nj.gov/dep/dwq/msrp_home.htm. The Township of Edgewater Park is a Tier A municipality.

Stormwater Management: Chapter 16.200 of the municipal code discusses stormwater management. The chapter is intended to regulate the feeding of wildlife, disposal of waste, including pet solid waste, yard waste collection, litter, and other waste and pollution that may find its way into stormwater runoff in order to improve, preserve and protect the water quality of waters and streams within the Township and surrounding communities



that may be downstream from the Township so as to protect the health safety and welfare of the public. This chapter also regulates connections to the municipal separate storm sewer system (MS4) operated by the Township and establishes penalties for violations of the provisions of this chapter.

Operational and Administration

Mutual Aid Agreements: The Township maintains mutual aid agreements with neighboring communities for continuity of operations.

Floodplain Administrator: The Township promotes the participation of the Floodplain Administrator within the hazard mitigation planning process and other plans and activities.

Vegetation Management: The Township's DPW maintains a tree maintenance and clearing program along roadways in high hazard areas.

Funding

The Township does not have budget line item for mitigation project funding but will look at mitigation actions when allocating funding in the future. The Capital Improvement Budget has a line item for mitigation project funding. The Township has provided funding for mitigation projects identified in the hazard mitigation plan and has provided protection to buildings/infrastructure in high hazard areas.

The Township has identified various financial resources that are available including Community Development Block Grants, Capital Improvements Project Funding, authority to levy taxes for specific purposes, user fees, impact fees for homebuyers or developers, incurring debt through general obligation, withholding public expenditures in hazard-prone areas, and state mitigation grant programs.

Education and Outreach

The Township of Edgewater Park does not provide training or outreach on hazard mitigation, grant applications, or hazard identification but plans to do so in the next five years.

Burlington County utilizes the Swift911 Emergency Notification system. Swift911 is used in order to keep residents informed during fires, outages, floods, hurricanes, evacuations, road closures and more. All notifications are delivered for the sole purpose of delivering emergency messages and public notifications that are time sensitive in order to increase the safety and security. This service is also extended to the 40 municipalities within Burlington County, including the Township of Edgewater Park.

9.13.6 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritization.

Past Mitigation Initiative Status

The following table indicates progress on the community's mitigation strategy identified in the 2013 Plan. Actions that are carried forward as part of this plan update are included in the following subsection in its own table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and may also be found under 'Capability Assessment' presented previously in this annex.



Table 9.13-11. Status of Previous Mitigation Actions

Action Number	2013 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Steps 1. Project to be included in 2019 HMP or Discontinue 2. If including action in the 2019 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
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	1. 0% complete 2. Budgeting constraints 3.	1. Include in 2019 HMP 2. Continue to work with adjacent municipality and seek alternative funding 3. Evaluate purchase of effected properties
EP-2	Adams Avenue Basins – remove separating embankment between the two basins	Lead: Edgewater OEM Support: County OEM,	No progress	1. 0% complete 2. Budget constraints 3. Proceeding with project EP-4 first	1. Include in 2019 HMP 2. 3.
EP-3	Adams Avenue Basins – construct new automated pump station with backup generator	Lead: Edgewater OEM Support: County OEM,	No progress.	1. 0% complete 2. Budget constraints 3. Proceeding with project EP-4 first	1. Include in 2019 HMP 2. 3.
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,	In progress	1. Project under design 2. Design changed to expand Roosevelt Pond and discharge Adams pond into Roosevelt. 3.	1. Include in 2019 HMP 2. 3.
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,	No progress	1. 0% progress in Const. 2. Grant Received to do portion of work 3.	1. Include in 2019 HMP 2. Put stabilization and capacity increase out to bid by 5/18, construction by 9/18
EP-6	Evaluate benefits of participating in CRS program	Twp. Committee; Planning	In progress	1. In progress 2. 3.	1. Include in 2019 HMP 2. Discuss with current participants 3.
EP-7	Conduct and facilitate community and public education and outreach for residents and businesses to promote natural hazard risk reduction to include:	Municipality with support from Planning Partners, County Planning,	No progress	1. 0% progress 2. Lack of municipal staff and resources 3.	1. Include in 2019 HMP 2. 3.



Action Number	2013 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Steps 1. Project to be included in 2019 HMP or Discontinue 2. If including action in the 2019 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
	<ul style="list-style-type: none"> Disaster preparedness Hazard mitigation 	NJOEM, FEMA			
EP-8	Improve municipal communication systems to include information sharing with county and surrounding municipalities	Municipality with support from County, NJOEM and FEMA	In progress	<ol style="list-style-type: none"> In progress 	<ol style="list-style-type: none"> Discontinue Ongoing capability
EP-9	Obtain and install backup power sources at critical facilities.	Municipality with support from County, NJOEM and FEMA	In progress	<ol style="list-style-type: none"> 10% complete Generator installed at municipal building 	<ol style="list-style-type: none"> Include in 2019 HMP
EP-10	Create/Enhance/Maintain Mutual Aid agreements with neighboring communities for continuity of operations	Municipality with support from County, NJOEM, FEMA and surrounding communities	In progress	<ol style="list-style-type: none"> In progress 	<ol style="list-style-type: none"> Discontinue Ongoing capability
EP-11	Continue to support the implementation, monitoring, maintenance, and updating of this Plan through participating in the 5 year Plan Update	Municipality with support from Planning Partners, County Planning, NJOEM, FEMA	In progress	<ol style="list-style-type: none"> In progress 	<ol style="list-style-type: none"> Discontinue Ongoing capability
EP-12	Promote the participation of Floodplain Administrator within the planning process and other related activities	Municipality with support from County, NJOEM and FEMA	Complete	<ol style="list-style-type: none"> 100% complete FPA is involved in planning activities 	<ol style="list-style-type: none"> Discontinue Ongoing capability
EP-13	Enhance resilience to severe storms by joining the NOAA "Storm Ready" program.	Municipality with support from County, NJOEM and FEMA	No progress	<ol style="list-style-type: none"> 0% progress Change in municipal staff 	<ol style="list-style-type: none"> Include in 2019 HMP



Action Number	2013 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Steps 1. Project to be included in 2019 HMP or Discontinue 2. If including action in the 2019 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
EP-14	Provide public education and outreach on proper installation and/or use of backup power	Municipal Clerk	No progress	<ol style="list-style-type: none"> 1. 0% progress 2. Change in municipal clerk 3. 	<ol style="list-style-type: none"> 1. Include in 2019 HMP 2. 3.
EP-15	Address dangerous trees threatening people and property through proactive tree-trimming (vegetation management) programs in conjunction with property owners and utility companies.	Municipal DPW	In progress	<ol style="list-style-type: none"> 1. Ongoing 2. 3. 	<ol style="list-style-type: none"> 1. Discontinue 2. 3. Ongoing capability

DRAFT



Completed Mitigation Initiatives Not Identified in the Previous Mitigation Strategy

The Township of Edgewater Park has identified the following mitigation projects/activities that have also been completed but were not identified in the previous mitigation strategy in the 2013 Plan:

- None identified

Proposed Hazard Mitigation Initiatives for the Plan Update

The Township of Edgewater Park participated in a mitigation action workshop in March 2018 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 Floodprone Structures’ (March 2007) and FEMA ‘Mitigation Ideas – A Resource for Reducing Risk to Natural Hazards’ (January 2013).

Table 9.13-12 summarizes the comprehensive-range of specific mitigation initiatives the Township of Edgewater Park would like to pursue in the future to reduce the effects of hazards. Some of these initiatives may be previous actions carried forward for this plan update. These 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 municipal priorities. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table below to further demonstrate the wide-range of activities and mitigation measures selected.

As discussed in Section 6, 14 evaluation/prioritization criteria are used to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing your actions as ‘High’, ‘Medium’, or ‘Low.’ The table below summarizes the evaluation of each mitigation initiative, listed by Action Number.

Table 9.13-13 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.



Table 9.13-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
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	Flood	1-1 3-1	Lead: Delanco OEM, Edgewater OEM Support: County OEM, NJ Transit	High	High	Grants/Local	Short Term	High	SIP	SP
Twp. Edgewater Park-2 (former EP-2)	Adams Avenue Basins – remove separating embankment between the two basins	Flood	1-1 3-1	Lead: Edgewater OEM Support: County OEM,	High	High	Grants/Local	Short Term	High	NSP	NR
Twp. Edgewater Park-3 (former EP-3)	Adams Avenue Basins – construct new automated pump station with backup generator	Flood	1-1 3-1	Lead: Edgewater OEM Support: County OEM,	High	High	Grants/Local	Short Term	High	SIP	SP
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	Flood	1-1 3-1	Lead: Edgewater OEM Support: County OEM,	High	High	Grants/Local	Short Term	High	SIP	SP
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	Flood	1-1 3-1	Lead: Edgewater OEM Support: County OEM,	High	High	Grants/Local	Short Term	High	SIP	SP
Twp. Edgewater Park-6 (former EP-6)	Evaluate benefits of participating in CRS program	All	1-1 1-5 2-1 2-2 3-1 4-1 5-1	Twp. Committee; Planning	Medium	Low	Twp./Public	OG	Medium	LPR	PR





Initiative	Mitigation Initiative	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
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 	All Hazards	5-1 5-2 5-3	Municipality with support from Planning Partners, County Planning, NJOEM, FEMA	Medium	Medium	Municipal Budget, HMA programs with local or county match	Short Term	High	EAP	PI
Twp. Edgewater Park-8 (former EP-9)	Obtain and install backup power sources at critical facilities.	All Hazards	1-2 1-5 3-2	Municipality with support from County, NJOEM and FEMA	Medium	Medium	Municipal Budget	Short	Medium	SIP	ES
Twp. Edgewater Park-9 (former EP-13)	Enhance resilience to severe storms by joining the NOAA "Storm Ready" program.	Severe Storm	1-1 1-5 3-1	Municipality with support from County, NJOEM and FEMA	Medium	Low	Municipal Budget	Short Term DOF	Medium	EAP	PI
Twp. Edgewater Park-10 (former EP-14)	Provide public education and outreach on proper installation and/or use of backup power	Severe Storm	1-5 5-1 5-3	Municipal Clerk	Medium	Low	Municipal Budget	Short	High	EAP	PI
Twp. Edgewater Park-11	Continue multi-jurisdictional planning discussions between Beverly, Delanco, and Edgewater Park to develop projects to address shared flooding concerns.	Flood	1-1 3-1	Municipality with support from Beverly, Delanco	Medium	Low	Municipal Budget	Short	High	LPR	PR

Notes:

Not all acronyms and abbreviations defined below are included in the table.

*Does this mitigation initiative reduce the effects of hazards on new and/or existing buildings and/or infrastructure? Not applicable (N/A) is inserted if this does not apply.

Acronyms and Abbreviations:

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

Potential FEMA HMA Funding Sources:

FMA Flood Mitigation Assistance Grant Program
 HMGP Hazard Mitigation Grant Program
 PDM Pre-Disaster Mitigation Grant Program

Timeline:

Short 1 to 5 years
 Long Term 5 years or greater
 OG On-going program





FEMA	Federal Emergency Management Agency	RFC	Repetitive Flood Claims Grant Program (discontinued in 2015)	DOF	Depending on funding
FPA	Floodplain Administrator				
HMA	Hazard Mitigation Assistance	SRL	Severe Repetitive Loss Grant Program (discontinued in 2015)		
N/A	Not applicable				
NFIP	National Flood Insurance Program				
OEM	Office of Emergency Management				

Costs:

Where actual project costs have been reasonably estimated:

- Low < \$10,000
- Medium \$10,000 to \$100,000
- High > \$100,000

Where actual project costs cannot reasonably be established at this time:

- Low Possible to fund under existing budget. Project is part of, or can be part of an existing on-going program.
- Medium Could budget for under existing work plan, but would require a reapportionment of the budget or a budget amendment, or the cost of the project would have to be spread over multiple years.
- High Would require an increase in revenue via an alternative source (i.e., bonds, grants, fee increases) to implement. Existing funding levels are not adequate to cover the costs of the proposed project.

Benefits:

Where possible, an estimate of project benefits (per FEMA's benefit calculation methodology) has been evaluated against the project costs, and is presented as:

- Low= < \$10,000
- Medium \$10,000 to \$100,000
- High > \$100,000

Where numerical project benefits cannot reasonably be established at this time:

- Low Long-term benefits of the project are difficult to quantify in the short term.
- Medium Project will have a long-term impact on the reduction of risk exposure to life and property, or project will provide an immediate reduction in the risk exposure to property.
- High Project will have an immediate impact on the reduction of risk exposure to life and property.

Mitigation Category:

- Local Plans and Regulations (LPR) – These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
- Structure and Infrastructure Project (SIP) - These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.
- Natural Systems Protection (NSP) – These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.
- Education and Awareness Programs (EAP) – These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities

CRS Category:

- Preventative Measures (PR) - Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.
- Property Protection (PP) - These actions include public activities to reduce hazard losses or actions that involve (1) modification of existing buildings or structures to protect them from a hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.
- Public Information (PI) - Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. Such actions include outreach projects, real estate disclosure, hazard information centers, and educational programs for school-age children and adults.
- Natural Resource Protection (NR) - Actions that minimize hazard loss and also preserve or restore the functions of natural systems. These actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.
- Structural Flood Control Projects (SP) - Actions that involve the construction of structures to reduce the impact of a hazard. Such structures include dams, setback levees, floodwalls, retaining walls, and safe rooms.
- Emergency Services (ES) - Actions that protect people and property during and immediately following a disaster or hazard event. Services include warning systems, emergency response services, and the protection of essential facilities





Table 9.13-13. Summary of Prioritization of Actions

Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
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	1	1	0	1	0	1	1	1	1	0	1	0	1	1	10	High
Twp. Edgewater Park-2 (former EP-2)	Adams Avenue Basins – remove separating embankment between the two basins	1	1	0	1	1	1	1	1	1	1	1	0	1	1	12	High
Twp. Edgewater Park-3 (former EP-3)	Adams Avenue Basins – construct new automated pump station with backup generator	1	1	0	1	0	1	1	1	1	0	1	0	1	1	10	High
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	1	1	0	1	1	1	1	1	1	1	1	0	1	1	12	High
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	1	1	0	1	0	1	1	1	1	0	1	0	1	1	10	High
Twp. Edgewater Park-6 (former EP-6)	Evaluate benefits of participating in CRS program	1	1	1	1	1	1	-1	1	1	-1	1	1	0	1	9	Medium
Twp. Edgewater Park-7 (former EP-7)	Conduct and facilitate community and public education and outreach	1	1	1	1	1	1	-1	1	1	1	1	1	0	1	11	High





Table 9.13-13. Summary of Prioritization of Actions

Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
	for residents and businesses to promote natural hazard risk reduction to include: <ul style="list-style-type: none"> • Disaster preparedness • Hazard mitigation 																
Twp. Edgewater Park-8 (former EP-9)	Obtain and install backup power sources at critical facilities.	1	0	0	1	1	1	1	0	1	0	1	0	0	0	8	Medium
Twp. Edgewater Park-9 (former EP-13)	Enhance resilience to severe storms by joining the NOAA “Storm Ready” program.	1	1	1	1	1	1	-1	1	1	-1	1	1	0	1	9	Medium
Twp. Edgewater Park- 10 (former EP-14)	Provide public education and outreach on proper installation and/or use of backup power	1	1	1	1	1	1	1	0	1	0	1	1	0	1	11	High
Twp. Edgewater Park-11	Continue multi-jurisdictional planning discussions between Beverly, Delanco, and Edgewater Park to develop projects to address shared flooding concerns.	1	1	1	0	1	1	1	0	1	1	0	1	1	1	11	High

Note: Refer to Section 6, which conveys guidance on prioritizing mitigation actions.



9.13.7 Future Needs To Better Understand Risk/Vulnerability

None at this time.

9.13.8 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the Township of Edgewater Park that illustrate the probable areas impacted within the municipality. These maps are based on the best available data at the time of the preparation of this plan and are considered to be adequate for planning purposes. Maps have only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which the Township of Edgewater Park has significant exposure. These maps are illustrated in the hazard profiles within Section 5.4, Volume I of this Plan.

9.13.9 Additional Comments

None at this time.

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Figure 9.13-1. Township of Edgewater Park Hazard Area Extent and Location Map 1

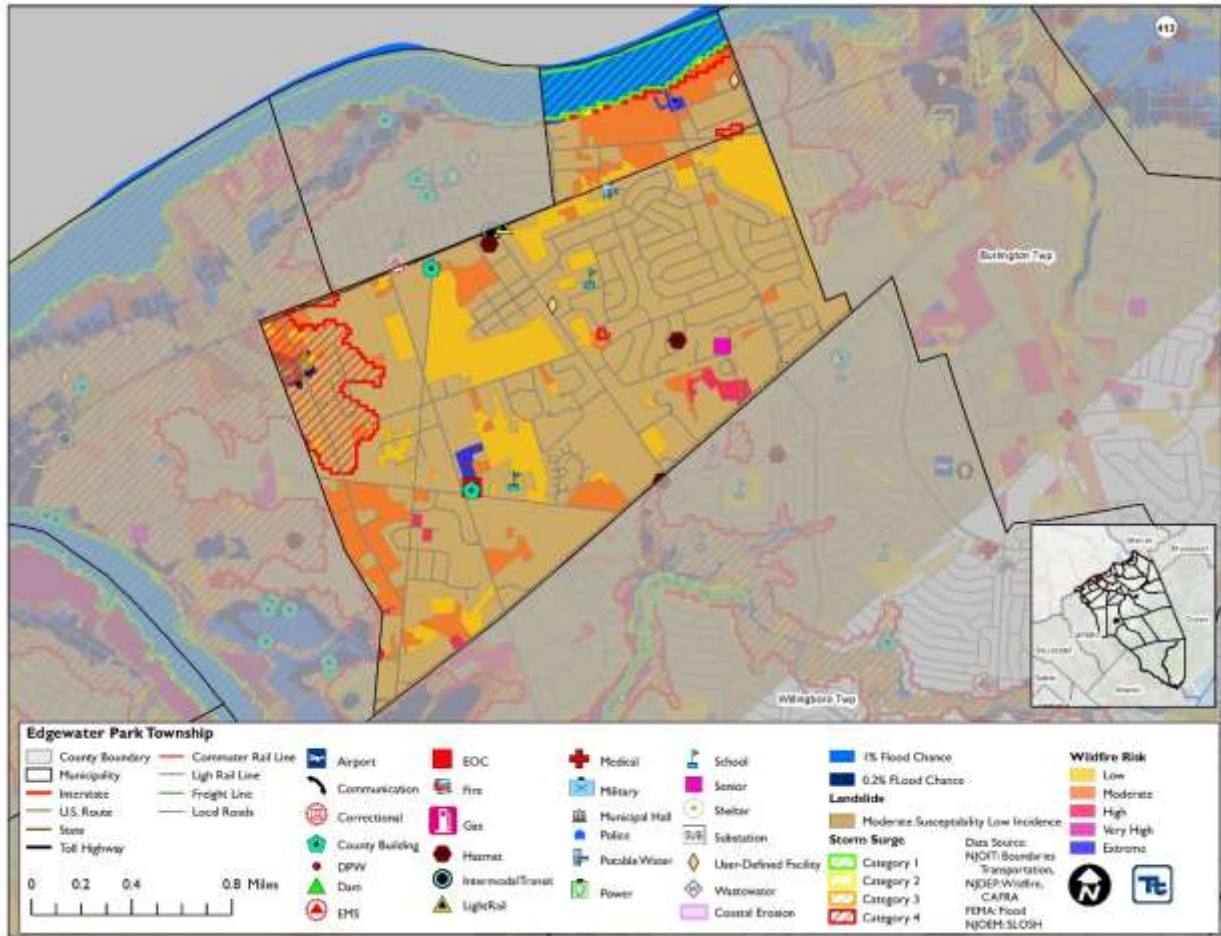


Figure 9.13-2. Township of Edgewater Park Hazard Area Extent and Location Map 2