

9.25 TOWNSHIP OF WOOLWICH

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

9.25.1 Hazard Mitigation Planning Team

The Township of Woolwich followed the planning process described in Section 2 (Planning Process) in Volume I of this plan update and developed the annex over the course of several months with input from many Township departments as summarized in the table below. The primary and alternate points of contact represented the community on the 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 coronavirus pandemic resulted in a strain on local resources that limited some participation, but every effort was made to connect with staff and stakeholders and gain diverse input. Due to safety precautions, all meetings were held virtually.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity, including the Township of Woolwich's hazard mitigation plan primary and alternate points of contact. Additional documentation on the municipality's planning process through Planning Partnership meetings is included in Section 2 (Planning Process) and Appendix C (Meeting Documentation).

Table 9.25-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Chris Beckett, Police Department Sergeant and OEM Coordinator Address: 120 Village Green Drive Woolwich Township, NJ 08085 Phone Number: 856-467-1667 x1224 Email: cbeckett@woolwichtwp.org	Name/Title: Joe Morgan, Police Department Chief Address: 120 Village Green Drive Woolwich Township, NJ 08085 Phone Number: 856-467-1667 ext. 1133 Email: jmorgan@woolwichtwp.org
NFIP Floodplain Administrator	



Name/Title: Chris Beckett, Police Department Sergeant and OEM Coordinator

Address: 120 Village Green Drive Woolwich Township, NJ 08085

Phone Number: 856-467-1667 x1224 Email: cbeckett@woolwichtwp.org

Name	Title	Method of Participation
Chris Beckett	Police Department Sergeant and OEM Coordinator	Provided information on past events, previous action status, and contributed to mitigation strategy development
Matthew O'Loughlin	Deputy OEM Coordinator	Provided information on past events, previous action status, and contributed to mitigation strategy development

9.25.2 Municipal Profile

Woolwich was formed by royal charter on March 7, 1767, from portions of Greenwich Township, and was incorporated as one of New Jersey's initial 104 townships by an act of the New Jersey Legislature on February 21, 1798. The township was named for Woolwich, England.

According to the United States Census Bureau, the township had a total area of 21.39 square miles, including 21.07 square miles of land and 0.32 square miles of water. Swedesboro is an independent municipality entirely surrounded by the township. Unincorporated communities, localities and place names located partially or completely within the township include Asbury, Dilkes Mills, Lippencott, Porches Mill, Robbins, Rulons and Scull. The New Jersey Turnpike and Route 322 are the main roads that pass through the municipality. Racoon creek passes through the community which ultimately feeds into the Delaware River.

Woolwich Township is governed under the Township form of New Jersey municipal government. he Township Committee is comprised of five members, who are elected directly by the voters at-large in partisan elections to serve three-year terms of office on a staggered basis, with either one or two seats coming up for election each year as part of the November general election in a three-year cycle. 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 2010 population for the Township of Woolwich was 10,200. The estimated 2019 population was 12,549, an 18.7 percent increase from the 2010 Census. Data from the 2019 U.S. Census American Community Survey indicate that 6.3 percent of the population is 5 years of age or younger and 10.6 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

9.25.3 Jurisdictional Capability Assessment and Integration

The Township of Woolwich performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Section 5 (Capability Assessment) describes





the components included in the capability assessment and their significance for hazard mitigation planning. This section summarizes the following findings of the assessment:

- An assessment of planning, legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.
- The community's adaptive capacity 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. Annex development included reviewing planning and policy documents and surveying each jurisdiction to obtain a better understanding of their progress in plan integration and how risk reduction is supported. Areas with current mitigation integration are summarized in this jurisdictional Capability Assessment (Section 9.25.3). The updated mitigation strategy includes opportunities the Township of Woolwich identified for integration of mitigation concepts to be incorporated into municipal procedures.

9.25.3.1 Planning, Legal, and Regulatory Capability

Section 5 (Capability Assessment) provides an overview of the planning, legal, and regulatory capabilities. The table below summarizes the regulatory tools that are available to the Township of Woolwich, what is present in the jurisdiction, and code citation and date.

Table 9.25-2. Planning, Legal, and Regulatory Capability

	Jurisdiction has this? (Yes/No)	Required by State? (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, & Regulation	s				
Building Code	Yes	Yes	Chapter 68, Building Construction, 1977	State and Local	Woolwich Township Construction Code Department
How does this reduce risk? • Establishes the Uniform Construction Code for construction within the Township.					
Zoning/Land Use Code	Yes	Yes, if the jurisdiction has a planning board	Chapter 203, Zoning, 1992	Local	Joint Land Use Board
 How does this reduce risk? The purpose of this chapter is to regulate the nature and extent of the uses of land and of buildings and structures thereon for the purposes set forth in the Municipal Land Use Law and to exercise the power to zone granted to municipalities of the State of New Jersey. 					
Subdivision Ordinance	Yes	Yes, if the jurisdiction has a planning board	Chapter 163, Subdivision of Land, 1977	Local	Joint Land Use Board
How does this reduce risk?					



	Jurisdiction has this? (Yes/No)	Required by State? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
The purpose of this chapter is to require approval of subdivisions within the Township of Woolwich by the Planning Board or, in appropriate cases, by the Board of Adjustment, for the purposes set forth in the Municipal Land Use Law and to exercise the power to regulate subdivisions granted to municipalities of the State of New Jersey.					
Stormwater Management Ordinance	Yes	Yes	Chapter 157, Stormwater Management, 2006	Local	Engineer
How door this raduce risk?					

How does this reduce risk?

- Through this article, Woolwich Township has established the following goals for stormwater control:
 - (a) To reduce flood damage, including damage to life and property;
 - (b) To minimize any increase in stormwater runoff from new development;
 - (c) To reduce soil erosion from any development or construction project;
 - (d) To assure the adequacy of existing and proposed culverts and bridges, and other instream structures;
 - (e) To maintain groundwater recharge;
 - (f) To minimize any increase in nonpoint pollution;
 - (g) To maintain the integrity of stream channels for their biological functions, as well as for drainage;
 - (h) To restore, protect, maintain and enhance the quality of the streams and water resources and the ecological character and quality of Woolwich Township;
 - (i) To minimize pollutants in stormwater runoff from new and existing development in order to restore, protect, enhance and maintain the chemical, physical and biological integrity of the surface and ground waters of Woolwich Township, to protect public health and to enhance the domestic, municipal, recreational, industrial and other uses of
 - (j) To protect public safety through the proper design and operation of stormwater management basins.
- In order to achieve the goals for stormwater control set forth in this article, Woolwich Township has identified the following management techniques:
 - (a) Implementation of multiple stormwater management best management practices (BMPs) may be necessary to achieve the performance standards for stormwater runoff quantity and rate, groundwater recharge, erosion control, and stormwater runoff quality established through this article.
 - (b) Compliance with the stormwater runoff quantity and rate, groundwater recharge, erosion control, and stormwater runoff quality standards established through N.J.A.C. 7:8-1.1 et seq., and this article, shall be accomplished to the maximum extent practicable through the use of nonstructural BMPs, before relying on structural BMPs. Nonstructural BMPs are also known as low-impact development (LID) techniques.
 - (c) Nonstructural BMPs shall include both environmentally sensitive site design and source controls that prevent pollutants from being placed on the site or from being exposed to stormwater.
 - (d) Source control plans shall be developed based upon physical site conditions and the origin, nature and the anticipated quantity or amount of potential pollutants.
 - (e) Structural BMPs, where necessary, shall be integrated with nonstructural stormwater management strategies and proper maintenance plans.
 - (f) When using structural BMPs, multiple stormwater management measures, smaller in size and distributed spatially throughout the land development site, shall be used wherever possible to achieve the performance standards for water quality, quantity and groundwater recharge established through this article before relying on a single, larger stormwater management measure to achieve these performance standards.

stormwater management measure to demeve these performance standards.					
Post-Disaster Recovery/ Reconstruction Ordinance	No	No	-	-	-
How does this reduce risk?					
Real Estate Disclosure		Yes		State	
How does this reduce risk?					
Growth Management		Yes, if the jurisdiction has a planning board		Local	
How does this reduce risk?					
Site Plan Ordinance	Yes	Yes, if the jurisdiction has a planning board	Chapter 149, Site Plan Review, 1978	Local and County	Planning Board, Board of Adjustment

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	Jurisdiction has this? (Yes/No)	Required by State? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Department / Agency Responsible	
 How does this reduce risk? The purpose of this chapter is to require approval of proposed site plans within the Township of Woolwich by the Planning Board or, in appropriate cases, by the Board of Adjustment, for the purposes set forth in the Municipal Land Use Law and to exercise the power of site plan review and approval granted to municipalities of the State of New Jersey. 						
Environmental Protection Ordinance	Yes	Yes, depends on type of environmental areas	Chapter 113, Hazardous Waste, 2005	Local	Mayor and Township Committee	
How does this reduce risk? • Establishes the responsibility for cleanup and costs of hazardous waste spills in the Township.						
Flood Damage Prevention Ordinance	Yes	Yes	Chapter 103, Flood Damage Prevention, 2010	Federal, State, County and Local	Floodplain administrator	
How does this reduce risk?						

- It is the purpose of this chapter to promote the public health, safety and general welfare, and to minimize private and public losses due to flood conditions in specific areas by provisions designed to:
 - o A. Protect human life and health;
 - o B. Minimize expenditure of public money for costly flood insurance control projects;
 - o C. Minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public;
 - o D. Minimize prolonged business interruptions;
 - E. Minimize damage to public facilities and utilities such as water and gas mains, electric, telephone and sewer lines, streets and bridges located in areas of special flood hazard;
 - F. Help maintain a stable tax base by providing for the second use and development of areas of special flood hazard so
 as to minimize future flood blight areas;
 - o G. Ensure that potential buyers are notified that property is in an area of special flood hazard; and
 - o H. Ensure that those who occupy the areas of special flood hazard assume responsibility for their actions.
- In order to accomplish its purpose, this chapter includes methods and provisions for:
 - A. Restricting or prohibiting uses which are dangerous to health, safety and property due to water or erosion hazards, or which result in damaging increases in erosion or in flood heights or velocities;
 - B. Requiring that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction;
 - C. Controlling the alteration of natural floodplains, stream channels, and natural protective barriers, which help accommodate or channel floodwaters:
 - o D. Controlling filling, grading, dredging, and other development which may increase flood damage; and
 - E. Preventing or regulating the construction of flood barriers which will unnaturally divert floodwaters or which may increase flood hazards in other areas.

• The ordinance includes the state mandated one-foot freeboard requirement.

Wellhead Protection	No	No	-	-	-
How does this reduce risk?					
Emergency Management Ordinance	No	No	-	-	-
How does this reduce risk?					
Climate Change Ordinance	No	No	-	-	-
How does this reduce risk?					
Disaster Recovery Ordinance	No	No	-	-	-
How does this reduce risk?					
Disaster Reconstruction Ordinance	No	No	-	-	-
How does this reduce risk?					



	Jurisdiction has this? (Yes/No)	Required by State? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Other Codes, Ordinances, & Regulation	Connection to	- Mitigation and Caf	o Growth		
 Prior to, zoning changes, analyses to ensure consis 	or development tent and compa	t permitting, does the tible land use?	jurisdiction review the hazar	7	
floodplains? Does it contain natural or Does the ordinance requi Por rezoning procedures Do the ordinances prohib Do the subdivision regula Do the regulations provid Do the regulations allow	verlay zones that fre developers to recognize natura pit development ations restrict that de for conservati density transfers	t set conditions? take additional actional hazard areas as liming within, of filling of, we subdivision of land on subdivisions or clusters where hazard areas	ons to mitigate natural hazard its on zoning changes that all etlands, floodways, and flood within or adjacent to natural uster subdivisions in order to	l risk? low greater intensity lplains? hazard areas?	or density of use
When updating ordinance The second	es, is hazard mit	igation considered?			
Planning Documents Master Plan	Yes	Yes – County	Master Plan, 2008	Local	
How does this reduce risk?		Yes - municipality	Waster Flan, 200	20001	
Capital Improvement Plan		Allowed			
How does this reduce risk?		Tillowed			
<mark>Disaster Debris Management</mark> Plan		No			
How does this reduce risk?					
Floodplain Management or Watershed Plan		No			
How does this reduce risk?				ı	
Stormwater Management Plan	Yes	Yes	Stormwater Management Plan, 2006	Local	
How does this reduce risk?					
Stormwater Pollution Prevention Plan		Yes			
How does this reduce risk?					
<mark>Urban Water Management Plan</mark>		No			
How does this reduce risk?					
Habitat Conservation Plan		No			
How does this reduce risk?					
Economic Development Plan How does this reduce risk?		No			
Shoreline Management Plan How does this reduce risk?		No			
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Community Wildfire Protection		No			





	Jurisdiction has this? (Yes/No)	Required by State? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Community Forest Management Plan		No			
How does this reduce risk?					
Transportation Plan		No			
How does this reduce risk?					
Agriculture Plan		No			
How does this reduce risk?					
Climate Action/ Resiliency Plan		No			
How does this reduce risk?					
Tourism Plan		No			
How does this reduce risk?					
Business/ Downtown Development Plan		No			
How does this reduce risk?					
Other					
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Planning Connection to Mitigation and Safe Growth

- When constructing upcoming budgets, hazard mitigation actions will be funded as budget allows. Construction projects will be
 evaluated to see if they meet the hazard mitigation goals.
- Annually, the jurisdiction will review mitigation actions when allocating funding.
- Do budgets limit expenditures on projects that would encourage development in areas vulnerable to natural hazards?
- Do infrastructure policies limit extension of existing facilities and services that would encourage development in areas vulnerable to natural hazards?
- Do budgets provide funding for hazard mitigation projects identified in the County HMP?
- Does the future land use map clearly identify natural hazard areas? Plan
- Do the land use policies discourage development or redevelopment with natural hazard areas?
- Does the plan provide adequate space for expected future growth in areas located outside natural hazard areas?
- Does the transportation plan limit access to hazard areas?
- Is transportation policy used to guide growth to safe locations?
- Are transportation systems designed to function under disaster conditions (e.g., evacuation)?
- Are environmental systems that protect development from hazards identified and mapped?
- Do environmental policies maintain and restore protective ecosystems?
- Do environmental policies provide incentives to development that is located outside protective ecosystems?

Response/Recovery Planning					
Emergency Operations Plan	Yes	Yes	Emergency Operations Plan, 2013	Local	
How does this reduce risk?					
Strategic Recovery Planning Report		No			
How does this reduce risk?					
Threat & Hazard Identification & Risk Assessment (THIRA)		No			
How does this reduce risk?					
Post-Disaster Recovery Plan		No			
How does this reduce risk?					
Continuity of Operations Plan		No			

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How does this reduce risk?	Jurisdiction has this? (Yes/No)	Required by State? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Public Health Plan		No			
How does this reduce risk?					
Other		-			
Response/Recovery Planning Connection to Mitigation and Safe Growth					
 Does your EOP cover short-term response and long-term recovery to address communications, evacuation, and housing necessary for identified hazards? 					

9.25.3.2 Development and Permitting Capability

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

Table 9.25-3. Development and Permitting Capability

Indicate if your jurisdiction implements the following	Yes/No	Comment
Do you issue development permits?If yes, what department is responsible?If no, what is your process for development?		
Are permits tracked by hazard area? (For example, floodplain development permits.)		
 Do you have a buildable land inventory? If yes, describe. If no, quantitatively describe the level of buildout in the jurisdiction. 		

9.25.3.3 Administrative and Technical Capability

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

Table 9.25-4. Administrative and Technical Capabilities

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Administrative Capability		
Planning Board		
Zoning Board of Adjustments		
Planning Department		
Mitigation Planning Committee		
Environmental Board/Commission		
Open Space Board/Committee		
Economic Development Commission/Committee		
Public Works/Highway Department		
Construction/Building/Code Enforcement		
Department		



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Emergency Management/Public Safety Department	(Yes/No)	mugation)
Warning Systems / Services		
(mass notification system, outdoor warning signals)		
Maintenance programs to reduce risk (stormwater		
maintenance, tree trimming, etc.)		
Mutual aid agreements		
Human Resources Manual - Do any job		
descriptions specifically include identifying or		
implementing mitigation projects or other efforts		
to reduce natural hazard risk?		
Other Other		
Technical/Staffing Capability		
Planners or engineers with knowledge of land		
development and land management practices		
Engineers or professionals trained in building or		
infrastructure construction practices		
Planners or engineers with an understanding of natural hazards		
Staff with expertise or training in benefit/cost		
analysis		
Professionals trained in conducting damage		
assessments		
Personnel skilled or trained in GIS and/or Hazards		
United States (HAZUS) – Multi-Hazards (MH)		
applications applications		
Scientist familiar with natural hazards		
Surveyor(s)		
Emergency Manager		
Grant writer(s)		Are data and maps from the HMP used to support documentation in grant applications?
Resilience Officer		
Other (this could include stormwater engineer,		
environmental specialist, etc.)		
How do your administrative/technical capabilities • PLACEHOLDER	contribute t	o risk reduction in your community?

9.25.3.4 Fiscal Capability

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

Table 9.25-5. Fiscal Capabilities

Financial Resources	Are these accessible or eligible to use for mitigation? (Yes/No) If yes, please describe. If no, can this be used to support in the future?
Community development Block Grants (CDBG, CDBG-DR)	
Capital improvements project funding	
Authority to levy taxes for specific purposes	



Are these accessible or eligible to use for mitigation? (Yes/No) If yes, please describe. If no,
can this be used to support in the future?

Fiscal Connection to Mitigation and Safe Growth

- How do your fiscal capabilities contribute to risk reduction in your community? PLACEHOLDER
- When constructing upcoming budgets, hazard mitigation actions will be funded as budget allows. Construction projects will be evaluated to see if they meet the hazard mitigation goals. PLACEHOLDER
- Annually, the jurisdiction will review mitigation actions when allocating funding. PLACEHOLDER
- Do budgets limit expenditures on projects that would encourage development in areas vulnerable to natural hazards? PLACEHOLDER
- Do infrastructure policies limit extension of existing facilities and services that would encourage development in areas vulnerable to natural hazards? PLACEHOLDER
- Do budgets provide funding for hazard mitigation projects identified in the County HMP? PLACEHOLDER

9.25.3.5 Education and Outreach Capability

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

Table 9.25-6. Education and Outreach Capabilities

Outreach Resources	Available? (Yes/No)	Comments (available staff, responsibilities, etc.)
Public information officer or		
communications office		
Personnel skilled or trained in website		
<mark>development</mark>		
Hazard mitigation information available		
<mark>on your website</mark>		
Social media for hazard mitigation		
education and outreach		
Citizen boards or commissions that		
address issues related to hazard		
mitigation		
Other programs already in place that		
could be used to communicate hazard-		
related information		
Warning systems for hazard events		



Outreach Resources	Available? (Yes/No)	Comments (available staff, responsibilities, etc.)		
Natural disaster/safety programs in place for schools				
Other				
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. • PLACEHOLDER				

9.25.3.6 Community Classifications

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

Table 9.25-7. Community Classifications

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)			
Building Code Effectiveness Grading Schedule (BCEGS)			
Public Protection (ISO Fire Protection Classes 1 to 10)			
Sustainable Jersey			
StormReady Certification			
Firewise Communities classification			

Note:

N/A Not applicable NP Not participating - Unavailable

9.25.3.7 Adaptive Capacity

Adaptive capacity is defined as "the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences" (IPCC 2014). In other words, it describes a jurisdiction's current capabilities to adjust to, protect from, or withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each hazard of concern and the jurisdiction's rating.

Table 9.25-8. Adaptive Capacity

Hazard	Adaptive Capacity - Strong/Moderate/Weak*		
Coastal Erosion	Moderate		
Dam/ Levee	Moderate		
Disease Outbreak	Moderate		
Drought	Moderate		
Earthquake	Moderate		
Ext Temp	Moderate		
Flood	Moderate		



Hazard	Adaptive Capacity - Strong/Moderate/Weak*		
Geologic	Moderate		
Hazmat	Moderate		
Hurricane	Moderate		
Invasive	Moderate		
Nor'Easter	Moderate		
Severe Storm	Moderate		
Severe Winter Storm	Strong		
Wildfire	Moderate		
Utility Failure	Moderate		

^{*}Strong = Capacity exists and is in use, Moderate = Capacity may exist; but is not used or could use some improvement, Weak = Capacity does not exist or could use substantial improvement.

9.25.4 National Flood Insurance Program (NFIP) Compliance

Th table below provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP.

Table 9.25-9. NFIP Summary

NFIP Topic	Comments
Flood Vulnerability Summary	
 # NFIP Policies: # RL properties: # SRL properties: # RL/SRL mitigated: (elevation or acquisition and funding source: XXX) 	 Total premium in force: \$ # claims filed: Total loss payments: \$
Describe areas prone to flooding in your jurisdiction.	
Do you maintain a list of properties that have been damaged by flooding?	
Do you maintain a list of property owners interested in flood mitigation, and if so, how many are interested in (elevation or acquisition)?	
 How do you make Substantial Damage determinations? How many were declared for recent flood events in your jurisdiction? 	
Detail any RiskMAP projects currently underway in your jurisdiction.	
Do your flood hazard maps adequately address the flood risk within your jurisdiction? If not, state why.	
NFIP Administration	
What local department is responsible for floodplain management?	



Are any staff certified floodplain managers (CFMs) or is a consultant retained? Provide an explanation of who in your municipality provides NFIP administration services (permit review, GIS, education/outreach, inspections, engineering capability). What specific training or support does your floodplain management staff need to support its floodplain management torogram? How do you determine if proposed development on an existing structure would qualify as a substantial improvement? Do you have access to resources to determine possible future flooding conditions from climate change? NFIP Compliance List any outstanding NFIP compliance violations. When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)? What is the local law number or municipal code of your flood damage prevention ordinance? What is the date that your flood damage prevention ordinance was last amended? Does your floodplain management program meet or exceed minimum requirements? - If exceeds, in what ways? Are there other local ordinances, plans, or programs (site plan review, consideration of flood risk reduction when granting height variances) that support floodplain management and meeting the NFIP requirements? Does your jurisdiction participate in CRS? - If yes, is your jurisdiction interested in inproving its CRS Classification? - If no, is your jurisdiction interested in joining the CRS	NFIP Topic	Comments
Provide an explanation of who in your municipality provides NFIP administration services (permit review, GIS, education/outreach, inspections, engineering capability). What specific training or support does your floodplain management staff need to support its floodplain management staff need to support its floodplain management program? How do you determine if proposed development on an existing structure would qualify as a substantial improvement? Do you have access to resources to determine possible future flooding conditions from climate change? NFIP Compliance List any outstanding NFIP compliance violations. When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)? What is the local law number or municipal code of your flood damage prevention ordinance? What is the date that your flood damage prevention ordinance was last amended? Does your floodplain management program meet or exceed minimum requirements? I fexceeds, in what ways? Are there other local ordinances, plans, or programs (site plan review, consideration of flood risk reduction when granting height variances) that support floodplain management and meeting the NFIP requirements? Does your jurisdiction participate in CRS? If yes, is your jurisdiction interested in improving its CRS Classification?	Are any staff certified floodplain managers (CFMs) or is a	
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What specific training or support does your floodplain management staff need to support its floodplain management program? How do you determine if proposed development on an existing structure would qualify as a substantial improvement? Do you have access to resources to determine possible future flooding conditions from climate change? NFIP Compliance List any outstanding NFIP compliance violations. When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)? What is the local law number or municipal code of your flood damage prevention ordinance? What is the date that your flood damage prevention ordinance was last amended? Does your floodplain management program meet or exceed minimum requirements? If exceeds, in what ways? Are there other local ordinances, plans, or programs (site plan review, consideration of flood risk reduction when granting height variances) that support floodplain management and meeting the NFIP requirements? Does your jurisdiction participate in CRS? If yes, is your jurisdiction interested in improving its CRS Classification?		
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Does your jurisdiction participate in CRS? If yes, is your jurisdiction interested in improving its CRS Classification?		
 If yes, is your jurisdiction interested in improving its CRS Classification? 		
Classification?		
 If no, is your jurisdiction interested in joining the CRS 		
program?	program? Source: FFMA Sentember 16, 2019: NIDEP - 2021	

Source: FEMA September 16, 2019; NJDEP - 2021

Notes

RL—Repetitive Loss; SRL—Severe Repetitive Loss; NA—Not applicable

9.25.5 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 understanding 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 9.25-10. Recent and Expected Future Development

Type of Development	2016	2017	2018	2019	2020	2021
Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ outside regulatory floodplain)						



	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family	66	0	12	0	25	0	29	0	17	0	38	0
Multi-Family	3	0	0	0	0	0	1	0	0	0	0	0
Other												
(commercial,	3	0	1	0	2	0	0	0	2	0	2	0
mixed-use,					_				_		_	
etc.)												
Total Permits Issued	72	0	13	0	27	0	30	0	19	0	40	0
					Loc	ation						
Property or	Ty	уре			(ad	dress						
Development		of	# of	Units /	and/d	or block	Known Hazard			Description / Status o		
Name	Devel	opment	Stru	ctures	and	and lot) Zone(s)*						nt
		Recen	t Major	Developn	nent and	l Infrastru	cture fro	om 2015 t	o Presei	nt		
					None	Identified						
	Known	or Antici	pated M	ajor Deve	lopmen	t and Infra	astructu	re in the I	Next Fiv	e (5) Years	5	
					None A	Anticipated						

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

9.25.6 Jurisdictional Risk Assessment

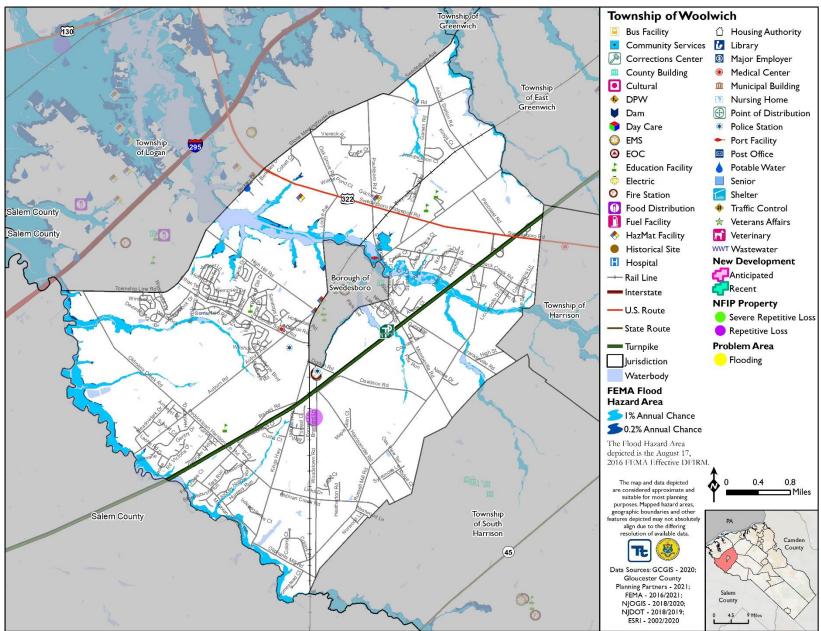
The hazard profiles in Section 4 (Risk Assessment) provide detailed information regarding each plan participant's vulnerability to the identified hazards. Section 4.1 (Identification of Hazards of Concern), Section 4.2 (Methodology and Tools), and Section 4.4 (Hazard Ranking) provide a detailed summary for the Township of Woolwich's risk assessment results, and data used to determine the hazard ranking are discussed later in this section.

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

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



Figure 9.25-1. Township of Woolwich Hazard Area Extent and Location Map 1



Section 9.25 | Township of Woolwich



Figure 9.25-2. Township of Woolwich Hazard Area Extent and Location Map 2

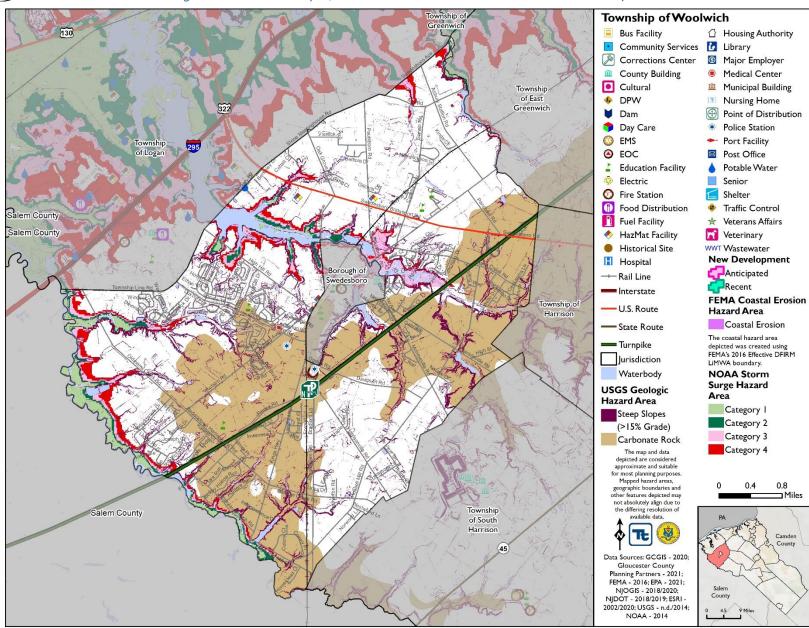




Figure 9.25-3. Township of Woolwich Hazard Area Extent and Location Map 3

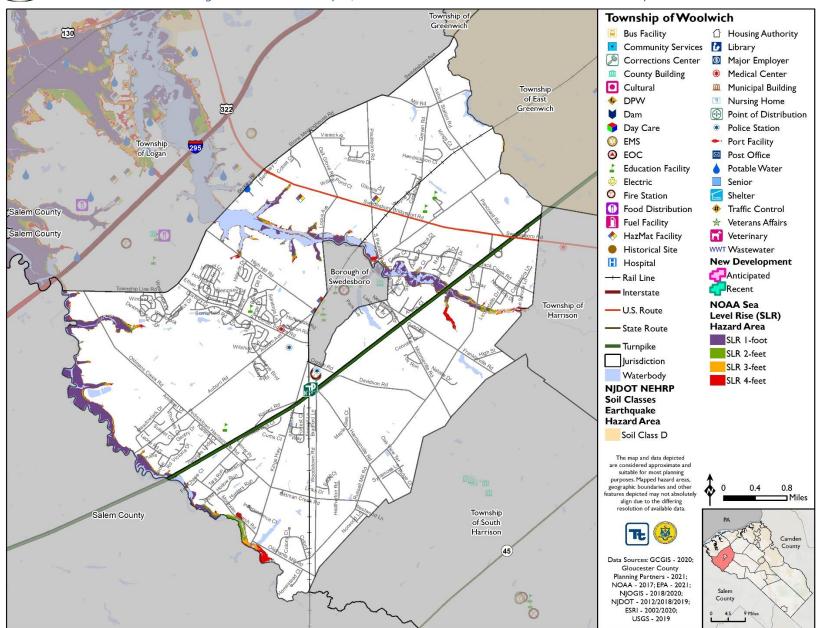
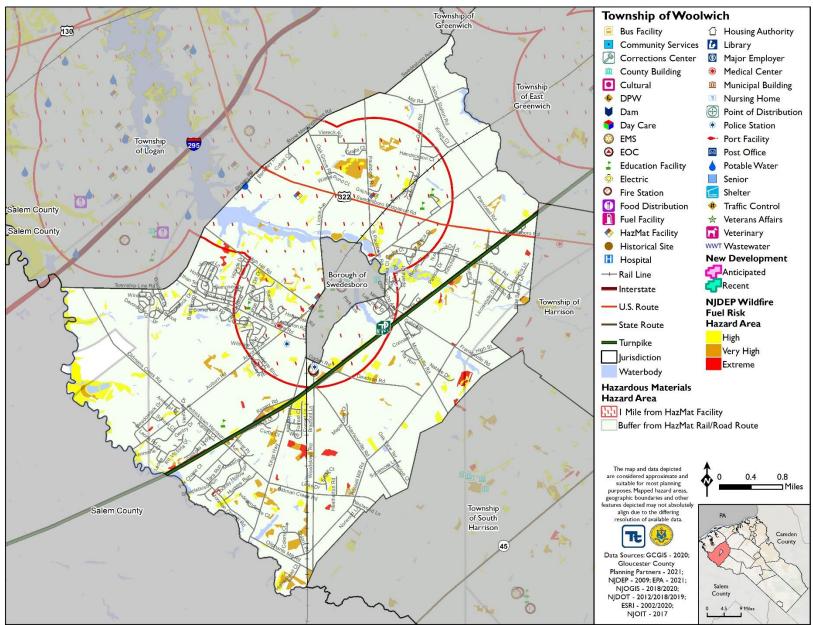




Figure 9.25-4. Township of Woolwich Hazard Area Extent and Location Map 4





9.25.6.1 Hazard Event History

Gloucester County has a history of natural hazard events as detailed in Section 4 (Risk Assessment) 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.

The Township of Woolwich's history of federal declarations (as presented by FEMA) and significant hazard events (as presented in NOAA-NCEI) is consistent with that of Gloucester County. The table below provides details regarding municipal-specific loss and damages the Township 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 9.25-11. Hazard Event History

	Event Type (Disaster			
Dates of	Declaration if	County	6	Municipal Summary of
Event	applicable)	Designated?	Summary of Event	Damages and Losses
February 15, 2015	Cold/Wind Chill	No	The center of an arctic air mass brought some of the lowest wind chills and temperatures of the winter season to New Jersey. Wind chill factors were recorded as low as 22 degrees below zero, with actual temperatures reaching -2°F.	Although the County was impacted, the Township did not report damages.
June 23, 2015	Severe Storm (DR-4231-NJ)	Yes	In Gloucester County, the Red Cross opened two comfort stations. Wind damage was most severe between Greenwich Township and Mantua Township. Lightning struck a refinery in Paulsboro, causing a loss of power and off-gas. In Wenonah, wind damage knocked down several massive oak trees. In Mantua, the microburst knocked down an estimated 2,800 trees and 100 poles. The Township's Fire Department building was severely damaged. Wind also knocked down power poles in East Greenwich along Kings Highway. Roads throughout East Greenwich were impassable. Damage was estimated at \$10 million.	Although the County was impacted, the Township did not report damages.
January 22 – 24, 2016	Severe Winter Storm and Snowstorm (DR- 4264-NJ)	Yes	Snow totals in Gloucester County included 21 inches in Deptford, 20.9 inches in Pitman, 17.5 inches in Turnersville, 14.5 inches in Williamstown, and one foot in Mullica Hill.	Although the County was impacted, the Township did not report damages.
March 6, 2018	Winter Storm	No	Gloucester County was hit with isolated heavy snow, with totals ranging from five inches in Pitman to 6.5 inches in West Deptford.	Although the County was impacted, the Township did not report damages.
January 20, 2020 – Present	Covid-19 Pandemic (EM-3451-NJ) (DR-4488-NJ)	Yes	Between March 1, 2020 and March 15, 2021, Gloucester County reported 21,065 confirmed cases of COVID-19, and 530 total fatalities.	The Township was subject to closures and social distancing/masking requirements.



Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
August 4, 2020 and August 7, 2020	Tropical Storm Isaias	Yes	On August 4, 2020 TS Isaias moved through the region dropping significant rain throughout Woolwich Township. A subsequent storm moved through the area on August 7, 2020 bringing additional rainfall that was unable to properly drain into already overflowing waterways and storm sewers.	Roadway and drainage areas resulted.

9.25.6.2 Hazard Ranking and Vulnerabilities

The hazard profiles in Section 4.1 (Identification of Hazards of Concern) of this plan have detailed information regarding each plan participant's vulnerability to the identified hazards. The following summarizes the Township of Woolwich'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 Section 4 (Risk Assessment) of the plan. The ranking process involves an assessment of the likelihood of occurrence for each hazard, along with its potential impacts on people, property, and the economy as well as community capability and changing future climate conditions. This input supports the mitigation action development to target those hazards with highest level of concern.

As discussed in Section 4.4 (Hazard Ranking), each participating jurisdiction can have differing degrees of risk exposure and vulnerability compared with Gloucester County as a whole. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Township of Woolwich. The Township of Woolwich reviewed the county hazard risk/vulnerability risk ranking table, including municipal-specific 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 indicated the following:

The Township agreed with the calculated hazard rankings.

Table 9.25-12. Hazard Ranking Input

Coastal Erosion	Dam/ Levee	Disease Outbreak	Drought	Earthquake	Extreme Temperature	Flood
Low	Low	Low	Medium	Low	Medium	Low

Geologic	Hazardous				
	Materials	Hurricane	Invasive Species	Nor'Easter	Severe Storm
Low	High	Low	Low	Medium	High





Severe Winter		
Storm	Wildfire	Utility Failure
Medium	Low	Medium

Note: The scale is based on the hazard rankings established in Section 4.4 (Hazard Ranking) and modified as appropriate during review by the jurisdiction.

Critical Facilities

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

Table 9.25-13. Potential Flood Losses to Critical Facilities

			Ехр	osure	
			1%	0.2%	
Name	Type	Lifeline?	Event	Event	Comment
Thompson Point NJ and Vicinity	Port Facility	X	Х	Х	_

Source: Gloucester County Planning Partners - 2021; HIFLD - 2020; EPA – 2021; FEMA 2016

9.25.6.3 Identified Issues

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

- Oliphant's Mill Dam is degraded and requires rehabilitation to prevent failure. Failure would impact at least one property. The dam is privately owned but the Township will work to assist the property owner as failure would impact Oliphant's Mill Road.
- High Hill Road floods during heavy rains and with high tides. There some coastal flooding impacts.
- The Township has one repetitive loss property.
- Dryden Driving Bridge at Russell Mill Road and Winding Way is an older bridge that will eventually need replacement at a higher standard.
- The Flood Damage Prevention Ordinance requires update.
- The Township lacks a Disaster Debris Management Plan.

9.25.7 Mitigation Strategy and Prioritization

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



9.25.7.1 Past Mitigation Initiative Status

The following table indicates progress on the community's mitigation strategy identified in the 2016 HMP. Actions that are carried forward as part of this plan update are included in the following subsection in its own table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and are discussed in the 'Capability Assessment' presented previously in this annex.





Table 9.25-14. Status of Previous Mitigation Actions

			Status	Include in th	e 2022 HMP?
201	6 Action Number and Action Description	Responsible Party	(In Progress, No Progress, Ongoing Capability, or Completed)	Check if Yes	Enter 2022 HMP Action #
MJ-1	Alleviate flooding at High Hill Road.	Municipal OEM, Gloucester County DPW	No Progress; floods during heavy rains up to a foot, some coastal flooding impacts.	Х	2022-Woolwich-002
MJ-2	Floodwalls for High Hill Road and Moravian Road.	Municipal OEM, Gloucester County DPW	No Progress. Other methods of ingress/egress are available when flooding does occur in rare instances. Floodwalls would not be cost effective.		
MJ-3	Alleviate flooding at Woodstown Road at Salem County border.	Municipal OEM, Gloucester County DPW, Salem County DPW	No Progress. Not a large concern.		
MJ-4	Alleviate flooding at Kings Highway County Line Bridge.	Municipal OEM, Gloucester County DPW, Salem County DPW	No Progress. Not a large concern.		
MJ-5	Critical facilities protection / hazard threat recognition of HazMat (Grasso Foods Inc is the largest pepper packing plant in the country. Services all 50 state & designated a Tier I facility).	Municipal OEM, Grasso Foods Inc	Ongoing Capability. Company is very cooperative with the Township and shares information regularly.		
M-01	Identify and pursue outreach and education opportunities	Municipal OEM	Ongoing Capability		
M-02	Prioritize critical facilities and complete site and facility surveys to identify vulnerabilities and potential mitigation measures.	Municipal OEM and Facility Managers	Ongoing Capability		
M-03	Prioritize recurrent drainage problem areas and initiate data collection to track unreimbursed damages and related response and recovery expenses.	Municipal OEM and Municipal Working Group	Ongoing Capability		
M-04	Conduct Regular Municipal Working Group Meetings	Municipal OEM and Municipal Working Group	Ongoing Capability		
M-05	Upgrade back-up emergency power generator at Governor Charles C. Stratton School (CF-9).	Municipal OEM, Public Works Department, School Board	In Progress		
M-06	Upgrade back-up emergency power generator at General Charles G. Harker School (CF-10).	Municipal OEM, Public Works Department, School Board	In Progress		



			Status	Include in the	
201	6 Action Number and Action Description	Responsible Party	(In Progress, No Progress, Ongoing Capability, or Completed)	Check if Yes	Enter 2022 HMP Action #
M-07	Upgrade back-up emergency power generator at Kingsway Regional Middles School (CF-11).	Municipal OEM, Public Works Department, School Board			
M-08	Upgrade back-up emergency power generator at Kingsway Regional High School (CF-12).	Municipal OEM, Public Works Department, School Board			
M-09	Assessment of two private dams	Municipal OEM, Public Works, Private Owners	In Progress. Pursuing Oliphant's Mill Dam.	x	2022-Woolwich-004
M-10	Elevation / acquisition of home on Liccardello Drive.	Floodplain Administrator and Private Owners	Complete. No longer on RL list.		
M-11	Upgrade Dryden Driving Bridge at Russell Mill Road and Winding Way.	Municipal OEM, Public Works Department	No Progress. Older bridge will eventually need replacement at higher standard.	х	2022-Woolwich-001



9.25.7.2 Additional Mitigation Efforts

Other than routine maintenance activities and progress noted in Table 9.25-14, the Township did not undertake any additional mitigation efforts in the last five years.

9.25.7.3 Proposed Hazard Mitigation Initiatives for the HMP Update

The Township of Woolwich participated in a mitigation action workshop in August 2021 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).

The table below indicates the range of proposed mitigation action categories.

FEMA CRS SP ES Hazard LPR SIP NSP **EAP** PR PP PΙ NR **Coastal Erosion** Χ Χ Dam/ Levee Χ Χ Χ Χ Χ Χ Disease Outbreak Χ Χ Drought **Earthquake** Χ Χ Χ Χ Ext Temp Χ Χ Χ Χ Χ Χ Flood Geologic Χ Χ Χ Χ Hazmat Χ Χ Χ Χ Hurricane Χ Χ Invasive Χ Χ Χ Nor'Easter Χ Χ Χ Χ Χ Severe Storm Severe Winter Storm Χ Χ Wildfire Χ Χ Χ Χ **Utility Failure**

Table 9.25-15. Analysis of Mitigation Actions by Hazard and Category

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

The table below (Table 9.25-16) summarizes the comprehensive range of specific mitigation initiatives the Township of Woolwich 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 (Mitigation Strategy), 14 evaluation/prioritization criteria are used to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1)



for each of the 14 evaluation criteria to assist with prioritizing your actions as 'High', 'Medium', or 'Low.' The table below summarizes the evaluation of each mitigation initiative, listed by Action Number.

Table 9.25-17 provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.





Table 9.25-16. Proposed Hazard Mitigation Initiatives and Associated Priority

Project Number	Mitigation Initiative Name	Description of Problem and Solution	New or Existin g Assets ?	Hazard(s) to be Mitigated	Goal s Met	Lead and Support Agencies	Potential Funding Sources	Estimated Benefits	Estimated Costs	Timeline	Priority	Mitigation Category	CRS Category
2022- Woolwich -001	Oliphant's Mill Dam	Problem: Oliphant's Mill Dam is degraded and requires rehabilitation to prevent failure. Failure would impact at least one property. The dam is privately owned but the Township will work to assist the property owner as failure would impact Oliphant's Mill Road. Solution: The Township will work with the private owner to provide input on necessary repairs and improvements, secure funding, and implement the desired actions.	Existin g	Dam Failure, Flood	1, 2, 7	Township of Woolwich OEM, Engineer, private property owner	HMGP, BRIC, Rehabilitatio n of High Hazard Dam Program, private owner	Dam failure avoided, meet safety requiremen ts	High	1 year	High	SIP	SP
2022- Woolwich -002	High Hill Road	Problem: A section of High Hill Road floods during heavy rains and with high tides. Solution: The Township will complete an engineering study to determine if raising the elevation of High Hill Road is possible. Roadway raising would need to take place without increasing the runoff and flooding risk to adjacent private properties. If roadway raising is able to be implemented and is costeffective, the Township will complete the action.	Existin g	Severe Storm, Flood, Nor'Easte r, Hurricane	1	Engineer	FEMA HMGP, BRIC, Township budget	Reduction in flooding frequency	TBD by engineerin g study	Within 5 years	High	SIP	PP



Project Number	Mitigation Initiative Name	Description of Problem and Solution	New or Existin g Assets ?	Hazard(s) to be Mitigated	Goal s Met	Lead and Support Agencies	Potential Funding Sources	Estimated Benefits	Estimated Costs	Timeline	Priority	Mitigation Category	CRS Category
2022- Woolwich -003	Repetitive Loss Mitigation	Problem: Frequent flooding events have resulted in damages to residential properties. These properties have been repetitively flooded as documented by paid NFIP claims. The Township has 1 repetitive loss property, but other properties may be impacted by flooding as well. Solution: Conduct outreach to 10 flood-prone property owners, including RL/SRL property owners and provide information on mitigation alternatives. After preferred mitigation measures are identified, collect required property-owner information and develop a FEMA grant application and BCA to obtain funding to implement acquisition/purchase/moving/elevat ing residential homes in the flood prone areas that experience frequent flooding (high risk areas).	Existin g	Severe Storm, Flood	1, 2,	NFIP Floodplain Administrato r, supported by homeowners	FEMA HMGP and FMA, local cost share by residents	Eliminates flood damage to homes and residents, creates open space for the municipality increasing flood storage.	\$1 Million	3 years	High	SIP	PP
2022- Woolwich -004	Dryden Driving Bridge	Problem: Dryden Driving Bridge at Russell Mill Road and Winding Way is an older bridge that will eventually need replacement at a higher standard. Solution: The Engineer will identify design deficiencies and assess and carry out replacement or retrofit of the Dryden Driving Bridge.	Existin g	Severe Storm, Flood	1, 2	Engineer	FEMA HMGP, BRIC, Township budget	Reduces flood risk to life, maintain access for emergency services	High	Within 5 years	High	SIP	PP



Project Number	Mitigation Initiative Name	Description of Problem and Solution	New or Existin g Assets ?	Hazard(s) to be Mitigated	Goal s Met	Lead and Support Agencies	Potential Funding Sources	Estimated Benefits	Estimated Costs	Timeline	Priority	Mitigation Category	CRS Category
2022- Woolwich -005	Flood Damage Prevention Ordinance Update	Problem: The current flood damage prevention ordinance does not meet the state's recommendation for a codecoordinated flood damage prevention ordinance. Solution: The Township will update the flood damage prevention ordinance using the NJ DEP's model code coordinated ordinance to create better coordination between NFIP implementation by the floodplain administrator, 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 Construction Official.	New	Flood	1, 2	FPA, Administration	Township budget	Meet state and FEMA standards for flood damage prevention, reduce flood risk on new developme nt	Staff time	6 month s	Mediu m	LP R	PR
2022- Woolwich -006	Disaster Debris Manageme nt Plan	Problem: The Township lacks an adopted Disaster Debris Management Plan. Solution: The Township will complete and adopt the inprogress Disaster Debris Management Plan.	Existin 9	All Hazards	5	OEM	Township budget	Increased planning for post- disaster response and cleanup.	Staff time	6 month s	High	LP R	ES

Notes:

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



Acronyms and Abbreviations:

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

EHP Environmental Planning and Historic Preservation

FEMA Federal Emergency Management Agency

FPA Floodplain Administrator HMA Hazard Mitigation Assistance

N/A Not applicable

NFIP National Flood Insurance Program
OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

FMA Flood Mitigation Assistance Grant Program HMGP Hazard Mitigation Grant Program

BRIC Building Resilient Infrastructure and Communities

Program

Timeline:

The time required for completion of the project upon implementation

Cost:

The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.

Mitigation Category:

- Local Plans and Regulations (LPR) These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
- Structure and Infrastructure Project (SIP) These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.
- Natural Systems Protection (NSP) These are actions that minimize damage and losses, and 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 9.25-17. Summary Evaluation and Action Priority

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2022-Woolwich- 001	Oliphant's Mill Dam	1	1	1	1	1	0	0	1	1	1	1	1	1	1	12	High
2022-Woolwich- 002	High Hill Road	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High
2022-Woolwich- 003	Repetitive Loss Mitigation	1	1	1	1	1	1	0	1	0	0	1	0	1	1	10	High
2022-Woolwich- 004	Dryden Driving Bridge	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High
2022-Woolwich- 005	Flood Damage Prevention Ordinance Update	0	1	1	1	1	1	1	1	1	1	0	1	1	1	12	High
2022-Woolwich- 006	Develop Disaster Debris Management Plan	0	1	1	1	1	1	1	1	1	1	1	1	1	1	13	High

Note: Section 6 (Mitigation Strategy), which conveys guidance on prioritizing mitigation actions.

Low (0-4), Medium (5-8), High (9-14).

This action has been identified as being of highest importance to the municipality and an action that the municipality would like to complete as soon as funding is received.



9.25.8 Action Worksheets

The following action worksheets have been developed by the Township of Woolwich to aid in the submittal of grant applications to support the funding of high priority proposed actions. The State of New Jersey requires at least two projects be developed with action worksheets.





Action Worksheet						
Project Name:	Oliphant's Mill Dam					
Project Number:	2022-Woolwich-001					
	Risk	/ Vul	nerabili	ty		
Hazard(s) of Concern:	Dam Failure, Flood					
Description of the Problem:	would impact at least or work to assist the prope	ne pro erty o	perty. T wner as	he dam is privately ov failure would impact (to prevent failure. Failure vned but the Township will Oliphant's Mill Road.	
	Action or Project I	ntend	led for I	mplementation		
Description of the Solution:	The Township will work with the private owner to provide input on necessary repairs and improvements, secure funding, and implement the desired actions.					
Is this project related to a C Lifeline?	Critical Facility or	Yes	\boxtimes	No 🗆		
Level of Protection:	500-year flood	500-year flood Estimated Benefits (losses avoided):				
Useful Life:	50 years Goals Met:			1, 2, 7		
Estimated Cost:	High		Mitigat	tion Action Type:	Structure and Infrastructure Project	
	Plan for	r Imp	lementa			
Prioritization:	High	High Desired Timeframe for Implementation:				
Estimated Time Required for Project Implementation:	2 years		Potent Source	ial Funding s:	HMGP, BRIC, Rehabilitation of High Hazard Dam Program, private owner	
Responsible Organization:	Township of Woolwich OEM, Engineer, private property owner		Mecha	Planning nisms to be Used lementation if any:	Hazard Mitigation Planning	
	Three Alternatives Co	onsid				
	Action		E	stimated Cost	Evaluation Current problem continues	
Alternatives:	No Action Repair Only			\$0 High	May result in continued future damages	
	Remove Dam High				Dam cannot be removed for safety reason.	
Progress Report (for plan maintenance)						
Date of Status Report:						
Report of Progress:						
Update Evaluation of the Problem and/or Solution:						



	Action Worksheet					
Project Name:	Oliphant's Mill Dam					
Project Number:	2022-Woolwich-001					
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate				
Life Safety	1	Project protects life from dam failure				
Property Protection	1	Project protects property from dam failure				
Cost-Effectiveness	1					
Technical	1					
Political	1	There is public support for the project				
Legal	0	The Township requires the legal cooperation of the private owner to complete the project				
Fiscal	0	The project requires funding support				
Environmental	1	Prevents environmental damage that would be caused by dam failure				
Social	1					
Administrative	1					
Multi-Hazard	1	Dam Failure, Flood				
Timeline	1	1 year				
Agency Champion	1	Township of Woolwich OEM, Engineer, private property owner				
Other Community Objectives	1					
Total	12					
Priority (High/Med/Low)	High					





Action Worksheet							
Project Name:	High Hill Road						
Project Number:	2022-Woolwich-002						
Risk / Vulnerability							
Hazard(s) of Concern:	Severe Storm, Flood,	Nor'Eas	ter, H	urricane			
Description of the Problem:	A section of High Hil	ll Road f	loods	during heavy rains and with	high tides.		
Action or Project Intended							
Description of the Solution:	The Township will complete an engineering study to determine if raising the elevation of High Hill Road is possible. Roadway raising would need to take place without increasing the graph of the discontinuity to edicent private properties. If readway raising is able to be						
Is this project related to a	Critical Facility?	Yes		No 🖾			
Level of Protection:	Roadway raised	d		nated Benefits ses avoided):	Reduction in flooding frequency		
Useful Life:	15 years		_	s Met:	1, 2		
Estimated Cost:				gation Action Type:	Structure and Infrastructure Project		
Plan for Implementation							
Prioritization:	High			red Timeframe for lementation:	Within 5 years		
Estimated Time Required for Project Implementation:	3 months		Pote	ntial Funding Sources:	FEMA HMGP, BRIC, Township budget		
Responsible Organization:	Engineer	Local Planning Mechanisms to be Used in Implementation if any:					
Three Alternatives Conside		ction)					
	Action			Estimated Cost	Evaluation		
Alternatives:	No Action	w and		\$0	Problem continues.		
Atternatives:	Retreat from roadway end Replace bulkhead but not raise road Roadway flooding still likely						
Progress Report (for plan	maintenance)						
Date of Status Report:							
Report of Progress:)				
Update Evaluation of the Problem and/or Solution:							



	Act	ion Worksheet			
Project Name:	Brown's Lane				
Project Number:	2020-Bellport-002				
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate			
Life Safety	1	Project will allow for maintained emergency access during flooding events			
Property Protection	1	Project will protect roadway from flood damage			
Cost-Effectiveness	1				
Technical	1	The project is technically feasible			
Political	1				
Legal	1	The Township has the legal authority to complete the project			
Fiscal	0	Project requires funding support			
Environmental	1				
Social	1				
Administrative	1				
Multi-Hazard	1	Flood, Hurricane, Nor'Easter, Severe Storm, Severe Winter Storm			
Timeline	0	Within 5 years			
Agency Champion	1	Engineer			
Other Community Objectives	1				
Total	12				
Priority (High/Med/Low)	High				



	A	ction W	orkshee	et				
Project Name:	Repetitive Loss Mit							
Project Number:	2022-Woolwich-003	3						
,	Risk / Vulnerability							
Hazard(s) of Concern:	Severe Storm, Flood	Severe Storm, Flood						
Description of the Problem:	properties have been Township has 1 repe flooding as well.	Frequent flooding events have resulted in damages to residential properties. These properties have been repetitively flooded as documented by paid NFIP claims. The Township has 1 repetitive loss property, but other properties may be impacted by						
	Action or Projec							
Description of the Solution:								
Is this project related to a C Lifeline?	Critical Facility or	Yes		No 🖂				
Level of Protection:	1% annual chance floo event + freeboard (in accordance with flood ordinance)			ted Benefits avoided):	Eliminates flood damage to homes and residents, creates open space for the municipality increasing flood storage.			
Useful Life:	Acquisition: Lifetime Elevation: 30 years (residential)		Goals N	Met:	1, 2, 3			
Estimated Cost:	\$1 Million		Mitigat	tion Action Type:	Structure and Infrastructure Project			
	Plan	for Imp	lementa	ntion				
Prioritization:	High			d Timeframe for nentation:	6-12 months			
Estimated Time Required for Project Implementation:	Three years			ial Funding	FEMA HMGP and FMA, local cost share by residents			
Responsible Organization:	NFIP Floodplain Administrator, support homeowners	_	Mechai in Imp	Planning nisms to be Used lementation if any:	Hazard Mitigation			
	Three Alternatives	Consid						
	Action No Action		E	stimated Cost \$0	Evaluation Current problem continues			
Alternatives:	Elevate homes			\$500,000	Current problem continues When this area floods, the entire area is impacted; elevating homes would not eliminate the problem and still lead to road closures and impassable roads			
	Elevate roads			\$500,000	Elevated roadways would not protect the homes from flood damages			
	Progress Rep	ort (fo	r plan m	aintenance)				
Date of Status Report:								
Report of Progress:								
Update Evaluation of the Problem and/or Solution:								



	Action Worksheet					
Project Name:	Repetitive Loss Mitigation					
Project Number:	2022-Woolwich-003					
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate				
Life Safety	1	Families moved out of high-risk flood areas.				
Property Protection	1	Properties removed from high-risk flood areas.				
Cost-Effectiveness	1	Cost-effective project				
Technical	1	Technically feasible project				
Political	1					
Legal	1	The Township has the legal authority to conduct the project.				
Fiscal	0	Project will require grant funding.				
Environmental	1					
Social	0	Project would remove families from the flood prone areas of the Township.				
Administrative	0					
Multi-Hazard	1	Severe Storm, Flood				
Timeline	0					
Agency Champion	1	NFIP Floodplain Administrator, supported by homeowners				
Other Community Objectives	1					
Total	10					
Priority (High/Med/Low)	High					



	A	ction W	orkshee	t			
Project Name:	Dryden Driving Bridg	;e					
Project Number:	2022-Woolwich-004						
	Ri	sk / Vul	nerabilit	ty			
Hazard(s) of Concern:	Severe Storm, Flood						
Description of the Problem:	Dryden Driving Bridge at Russell Mill Road and Winding Way is an older bridge that will eventually need replacement at a higher standard.						
	Action or Projec	ct Intend	ded for I	nplementation			
Description of the Solution: The Engineer will identify design deficiencies and assess and carry out replacement or retrofit of the Dryden Driving Bridge.							
Is this project related to a (Lifeline?	Critical Facility or	Yes	Ø	No 🗵			
Level of Protection:	• 500-year ev	ent		ted Benefits avoided):	Infrastructure protected from hazard damages		
Useful Life:	• 25 years		Goals M	let:			
Estimated Cost:	• High		Mitigat	ion Action Type:	Structure and Infrastructure Project		
	Plan	for Imp	lementa				
Prioritization:	High			d Timeframe for nentation:	Within 5 years		
Estimated Time Required for Project Implementation:	Within 5 years		Potenti Source	al Funding s:	FEMA HMGP, BRIC, Township budget		
Responsible Organization:	Engineer		Mechai	lanning nisms to be Used ementation if any:	Hazard Mitigation		
	Three Alternatives	Consid					
	Action			stimated Cost	Evaluation		
	No Action			\$0	Current problem continues		
Alternatives:	Remove bridges a causeways			High	Loss of access		
	Rebuild all bridges causeways	and		High	Costly and unnecessary.		
	Progress Re	port (fo	r plan m	aintenance)			
Date of Status Report:							
Report of Progress:							
Update Evaluation of the Problem and/or Solution:							



	Action Worksheet					
Project Name:	Dryden Driving Bridge					
Project Number:	2022-Woolwich-004					
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate				
Life Safety	1	Reduces flood risk to life, maintain access for emergency services				
Property Protection	1	Reduces damage risk to bridges and causeways				
Cost-Effectiveness	1	Cost-effective project				
Technical	1	Technically feasible project				
Political	1					
Legal	1	The Township has the legal authority to conduct the project.				
Fiscal	0	Project will require grant funding.				
Environmental	1					
Social	1					
Administrative	1					
Multi-Hazard	1	Severe Storm, Flood				
Timeline	0	Within 5 years				
Agency Champion	1	Engineer				
Other Community Objectives	1					
Total	12					
Priority (High/Med/Low)	High					