



## 9.10 BOROUGH OF HAMBURG

This section presents the jurisdictional annex for the Borough of Hamburg. The annex includes a general overview of the Borough of Hamburg; an assessment of the Borough of Hamburg’s risk, vulnerability, and mitigation capabilities; and a prioritized action plan to implement prior to a disaster to reduce future losses and achieve greater resilience to natural hazards.

### 9.10.1 Hazard Mitigation Planning Team

The Borough of Hamburg followed the planning process described in Section 2 (Planning Process). This annex was developed over the course of several months with input from many jurisdiction representatives. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization. The coronavirus pandemic resulted in a strain on local resources that limited some participation, but every effort was made to connect with staff and stakeholders and gain diverse input. Due to safety precautions, all meetings were held virtually. The following table summarizes who participated and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Section 2 (Planning Process) and Appendix C (Meeting Documentation).

*Table 9.10-1. Hazard Mitigation Planning Team*

Primary Point of Contact		Alternate Point of Contact
Name / Title: Keith Sukennikoff, OEM Coordinator Address: 16 Walkill Avenue, Hamburg, NJ 07419 Phone Number: (973) 670-0105 Email: oem@hamburgnj.org		Name / Title: Michael Postorino, Public Safety/Police Director Address: 16 Walkill Avenue, Hamburg, NJ 07419 Phone Number: (973) 827-9230 Email: mpostorino@hamburgpolice.org
NFIP Floodplain Administrator		
Name / Title: John Ruschke, Borough Engineer Address: 412 Mt. Kemble Avenue, Suite G22 Morristown NJ 07960 Phone Number: (973) 827-9230 Email: John.ruschke@mottmac.com		
Name	Title	Method of Participation
John Ruschke, PE & Samantha Anello, PE	Borough Engineer	NFIP, floodplain managers, contributed to the mitigation strategies, reviewed annex. John attended the kickoff meeting. Samantha attended the risk assessment meeting and mitigation strategy workshop.
Keith Sukennikoff	OEM Coordinator	Primary point of contact; attended the kickoff meeting
Michael Postorino	Public Safety/Police Director	Alternate point of contact

### 9.10.2 Jurisdiction Profile

The Borough of Hamburg is located in northern Sussex County. It is bordered to the north, east and west by the Township of Hardyston and to the south by the Borough of Franklin. The Borough covers an area of approximately 1.2 square miles. A tributary of the Walkill River flows through the northern section of the Borough and along the Walkill River forms the western border between the Borough and Township of Hardyston. Hamburg Creek is located in the southern end of the Borough. Hardistonville is an unincorporated area of the Borough.



According to the U.S. Census, the 2010 population for the Borough of Hamburg was 3,277. The estimated 2018 population was 3,152, a 3.8 percent decrease from the 2010 Census. Data from the 2018 U.S. Census American Community Survey indicate that 4.2 percent of the population is 5 years of age or younger and 15.4 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.

### 9.10.3 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to understanding a jurisdiction’s overall risk to its hazards of concern. Table 9.9-2 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development. The figures at the end of this annex illustrate the geographically-delineated hazard areas and the location of potential new development.

**Table 9.10-2. Recent and Expected Future Development**

Type of Development	2015		2016		2017		2018		2019	
Number of Building Permits for New Construction Issued Since the Previous HMP										
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single and Two-Family Units	0	0	0	0	0	0	0	0	0	0
Multi-Family	0	0	0	0	0	0	0	0	0	0
Other (commercial, mixed-use, etc.)	0	0	0	0	0	0	0	0	0	0
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development		
Recent Major Development and Infrastructure from 2015 to Present										
Fairways at Walkkill	Residential	68		G/B Castle Road Block 11 Lot 30 and Block 11.01 Lot 1		1% and 0.2% Flood Hazard Areas, Railway Incident Hazard Area, Hazardous Material Incident Area, Nuclear Incident Hazard Area, Carbonate Soil, Steep Slopes, Wildfire		Ongoing		
Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years										
None anticipated										

\* Only location-specific hazard zones or vulnerabilities identified.  
SFHA = Special Flood Hazard Area



### 9.10.4 Capability Assessment

Section 5 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. The Borough of Hamburg performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. This section summarizes the following findings of the assessment for this jurisdiction:

- An assessment of legal and regulatory capabilities
- Development and permitting capabilities
- An assessment of fiscal capabilities
- An assessment of education and outreach capabilities
- Information on NFIP compliance
- Classification under various community mitigation programs
- The community’s adaptive capacity for the impacts of climate change

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, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress in plan integration. Areas with current mitigation integration are summarized below. The Borough of Hamburg identified specific integration activities that will be incorporated into municipal procedures; these actions are included in the updated mitigation strategy.

#### PLANNING, LEGAL AND REGULATORY CAPABILITY

The table below summarizes the legal and regulatory tools that are available to the Borough of Hamburg and where hazard mitigation has been integrated.

**Table 9.10-3. Planning, Legal and Regulatory Capability**

	Do you have this? (Yes/No)	Authority that enforces (Federal, State, Regional, County, Local)	Is this State Mandated?	Have aspects of the HMP been integrated into your codes/ordinances/plans?	
				If yes-how? Describe in comments.	If no - add Mitigation Action #, if applicable.
<b>Codes, Ordinances, &amp; Requirements</b>					
<b>Building Code</b>	Yes	State & Local	Yes	Yes	-
<i>Comment:</i>					
<ul style="list-style-type: none"> <li>• State mandated on local level under NJAC 5:23-3.14. International Building Code – New Jersey Edition, 2018, NJAC 5:24-3.14 Adopted 9/3/2019</li> <li>• This code follows State Uniform Construction Code Act (N.J.S. 52:27D-119 et seq).</li> </ul>					
<b>Zoning Code</b>	Yes	Local	Yes – if municipality has a Planning Board	Yes	-
<i>Comment:</i>					
<ul style="list-style-type: none"> <li>• State permissive on local level. Per State of NJ Municipal Land Use Law (MLUL) L. 1975, s. 2, eff Aug 1, 1976, 40-55D-62: 49. Power to zone, requires all jurisdictions to have current zoning and other land development ordinances after the planning board has adopted the land use element and master plan.</li> <li>• The Zoning Department is responsible for this code in compliance with Chapter 215.</li> </ul>					
<b>Subdivisions</b>	Yes	Local	Yes – if municipality has a	Yes	-



	Do you have this? (Yes/No)	Authority that enforces (Federal, State, Regional, County, Local)	Is this State Mandated?	Have aspects of the HMP been integrated into your codes/ordinances/plans?	
				If yes-how? Describe in comments.	If no - add Mitigation Action #, if applicable.
			Planning Board		
<b>Comment:</b> <ul style="list-style-type: none"> <li>P.L.1975, c.291 (C.40:55D-47): 40:55D-37. Grant of power; referral of proposed ordinance; county planning board approval a. The governing body may by ordinance require approval of subdivision plats by resolution of the planning board as a condition for the filing of such plats with the county recording officer and approval of site plans by resolution of the planning board as a condition for the issuance of a permit for any development, except that subdivision or individual lot applications for detached one or two dwelling-unit buildings shall be exempt from such site plan review and approval; provided that the resolution of the board of adjustment shall substitute for that of the planning board whenever the board of adjustment has jurisdiction over a subdivision or site plan pursuant to subsection 63b. of this act . Dictated by the Municipal Land Use Law. NJ Statute 40:27-6.2 - the board of freeholders of any county having a county planning board shall provide for the review of all subdivisions of land within the county by said county planning board and for the approval of those subdivisions affecting county road or drainage facilities as set forth and limited hereinafter in this section.</li> <li>The LUB is responsible for this ordinance in compliance with Chapter 186.</li> </ul>					
<b>Stormwater Management</b>	Yes	Local	Yes	Yes	-
<b>Comment:</b> <ul style="list-style-type: none"> <li>See Title 7 of the NJ Administrative Code, N.J.A.C. 7:8</li> <li>The LUB is responsible for this ordinance in compliance with Chapter 182.</li> </ul>					
<b>Post-Disaster Recovery</b>	No	-	No	-	-
<b>Comment:</b>					
<b>Real Estate Disclosure</b>	Yes	State, Division of Consumer Affairs	Yes	Yes	
<b>Comment:</b> N.J.A.C. 13:45A-29.1 - Before signing a contract of sale, all purchasers must receive a New Jersey Public Offering Statement (POS) approved by the New Jersey Real Estate Commission. The POS provides information such as estimated completion dates for improvements, fees for services and amenities, the type of title and ownership interest being offered, its proximity to hospitals, schools, fire and police, as well as any hazards, risks or nuisances in or around the subdivision.					
<b>Growth Management</b>	No	-	Yes – if municipality has a Planning Board	-	-
<b>Comment:</b> <ul style="list-style-type: none"> <li>State Mandated on a municipal level. See Zoning Ordinance ; Also - Plan Endorsement Process via the State Development &amp; Redevelopment Plan provides for the delineation of Growth Areas and Environs; Use of the endorsed plans in the implementation of state environmental regulations makes the Plan Endorsement process a growth management strategy.</li> </ul>					
<b>Site Plan Review</b>	Yes	Local	Yes – if municipality has a Planning Board	Yes	-
<b>Comment:</b> <ul style="list-style-type: none"> <li>Dictated by the Municipal Land Use Law which sets forth minimum requirements for plans, etc., timeframes for development review. NJ Statute 40:27-6.2: The board of freeholders of any county having a county planning board shall provide for the review of all subdivisions of land within the county by said county planning board and for the approval of those subdivisions affecting county road or drainage facilities as set forth and limited hereinafter in this section. 40:27-6.10 In order that county planning boards shall have a complete file of the planning and zoning ordinances of all municipalities in the county, each municipal clerk shall file with the county planning board a copy of the planning and zoning ordinances of the municipality in effect on the effective date of this act and shall notify the county planning board of the introduction of any revision or amendment of such an ordinance which affects lands adjoining county roads or other county lands, or lands lying within 200 feet of a municipal boundary, or proposed facilities or public lands shown on the county master plan or official county map. Such notice shall be given to the county planning board at least 10 days prior to the public hearing thereon by personal delivery or by certified mail of a copy of the official notice of the public hearing together with a copy of the proposed ordinance.</li> <li>The LUB is responsible for these requirements in compliance with Chapter 171.</li> </ul>					
<b>Environmental Protection</b>	Yes	State	No	Yes	-
<b>Comment:</b> Chapter 215-20 of the Hamburg Code regulates development in critical areas. According to the code, all open water, streams, ponds, detention basins, wetlands as defined on the Army Corps of Engineers' wetlands survey and floodplains shall be excluded from the land area used by an applicant for development in the calculation of permitted densities for construction.					



	Do you have this? (Yes/No)	Authority that enforces (Federal, State, Regional, County, Local)	Is this State Mandated?	Have aspects of the HMP been integrated into your codes/ordinances/plans?	
				If yes-how? Describe in comments.	If no - add Mitigation Action #, if applicable.
<b>Flood Damage Prevention</b>	Yes	Federal, State & Local	Yes	Yes	-
<i>Comment:</i>					
<ul style="list-style-type: none"> <li>The NJ State Law Flood Area Control Act (N.J.S.A. 58:16A-52) and the National Flood Control Act of 1968 (NFIP) are state and federal acts to support minimization of flood losses. They do not require local adoption but as enforced by the NJDEP, the floodplain ordinances of each municipality must be reviewed for compliance with these regulations. In addition, participation in the NFIP requires a floodplain ordinance. Regulations for the Flood Control Hazards Act were adopted in 2007 and amended effective June 20, 2016.</li> <li>The Construction Official is responsible for this ordinance in compliance with Chapter 215-20.</li> </ul>					
<b>Wellhead Protection</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Emergency Management</b>	Yes	State and Local	No	No	-
<i>Comment:</i>					
<ul style="list-style-type: none"> <li>Chapter 20 Fire Department</li> <li>Chapter 44 Police Department</li> </ul>					
<b>Climate Change</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Disaster Recovery Ordinance</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Disaster Reconstruction Ordinance</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Other: Municipal Separate Storm Sewer System (MS4)</b>	Yes	Local	No	Yes	-
<i>Comment: The DPW is responsible for this ordinance in compliance with Chapter 182.</i>					
<b>Planning Documents</b>					
<b>Comprehensive / Master Plan</b>	Yes	Local	Yes	Yes	-
<i>Comment:</i>					
<ul style="list-style-type: none"> <li>2018 Revised NJ Statute 40:27-2; the county planning board shall make and adopt a master plan for the physical development of the county. The master plan of a county, with the accompanying maps, plats, charts, and descriptive and explanatory matter, shall show the county planning board's recommendations for the development of the territory covered by the plan, and may include, among other things, the general location, character, and extent of streets or roads, viaducts, bridges, waterway and waterfront developments, parkways, playgrounds, forests, reservations, parks, airports, and other public ways, grounds, places and spaces; the general location and extent of forests, agricultural areas, and open-development areas for purposes of conservation, food and water supply, sanitary and drainage facilities, or the protection of urban development, and such other features as may be important to the development of the county. The county planning board shall encourage the co-operation of the local municipalities within the county in any matters whatsoever which may concern the integrity of the county master plan and to advise the board of chosen freeholders with respect to the formulation of development programs and budgets for capital expenditures. Per State of NJ Municipal Land Use Law (MLUL) L. 1975, s. 2, eff Aug 1, 1976 40:55D-28 provides the required components of a municipal Master Plan and requires that each municipality prepare a master plan and update it every 6 years. Further, all zoning ordinances must be consistent with the Master Plan or will not be benefitted from a presumption of validity.</li> <li>The LUB is responsible for this plan. The plan was adopted in 1997 and a re-examination report was completed in November of 2006.</li> </ul>					
<b>Capital Improvement Plan</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Disaster Debris Management Plan</b>	No	-	No	-	2020-Hamburg-006
<i>Comment:</i>					
<b>Floodplain or Watershed Plan</b>	No	-	No	-	-



	Do you have this? (Yes/No)	Authority that enforces (Federal, State, Regional, County, Local)	Is this State Mandated?	Have aspects of the HMP been integrated into your codes/ordinances/plans?	
				If yes-how? Describe in comments.	If no - add Mitigation Action #, if applicable.
<i>Comment:</i>					
<b>Stormwater Management Plan</b>	Yes	Local	Yes	Yes	-
<i>Comment:</i>					
<ul style="list-style-type: none"> <li>The Stormwater Management rules (N.J.A.C. 7:8) rules were published in the February 2, 2004 NJ Register. These rules set forth the required components of regional and municipal stormwater management plans and establish the stormwater management design and performance standards for new (proposed) development. The design and performance standards for new development include groundwater recharge, runoff quantity controls, and runoff quality controls. The rules emphasize, as a primary consideration, the use of nonstructural stormwater management techniques including minimizing disturbance, minimizing impervious surfaces, minimizing the use of stormwater pipes, preserving natural drainage features, etc. The rules also set forth requirements for groundwater recharge, stormwater runoff quantity control, stormwater runoff quality control, and the prohibition of major development to be located within or to discharge runoff from the major development into a 300-foot riparian zone without prior authorization from the Department under the Flood Hazard Area Control Act Rules, N.J.A.C. 7:13.</li> <li>This plan was adopted on April 20, 2005.</li> <li>The MC is responsible for this plan in compliance with Chapter 182.</li> </ul>					
<b>Stormwater Pollution Prevention Plan</b>	No	-	No	-	-
<i>Comment:</i>					
<ul style="list-style-type: none"> <li>The Phase II New Jersey Pollutant Discharge Elimination System Stormwater Regulation Program (NJPDES) rules (N.J.A.C. 7:14A) were published in the February 2, 2004, NJ Register. These NJPDES rules are intended to address and reduce pollutants associated with existing stormwater runoff. The NJPDES rules establish a regulatory program for existing stormwater discharges as required under the Federal Clean Water Act. These NJPDES rules govern the issuance of permits to entities that own or operate small municipal separate storm sewer systems, known as MS4s. Under this program, permits must be secured by municipalities, certain public complexes such as universities and hospitals, and State, interstate and federal agencies that operate or maintain highways. The permit program establishes the Statewide Basic Requirements that must be implemented to reduce nonpoint source pollutant loads from these sources. The Statewide Basic Requirements include measures such as: the adoption of ordinances (litter control, pet waste, wildlife feeding, proper waste disposal, etc.); the development of a municipal stormwater management plan and implementing ordinance(s); requiring certain maintenance activities (such as street sweeping and catch basin cleaning); implementing solids and floatables control; locating discharge points and stenciling catch basins; and a public education component.</li> <li>Hamburg is a Tier B community and a Stormwater Pollution Prevention Plan is not required.</li> </ul>					
<b>Urban Water Management Plan</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Habitat Conservation Plan</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Economic Development Plan</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Shoreline Management Plan</b>	No	-	Yes – if located in a coastal zone	-	-
<i>Comment:</i>					
<ul style="list-style-type: none"> <li>NJ Coastal Area Facility Review Act (N.J.S.A. 13:19) or CAFRA regulates almost all development along the coast for activities including construction, relocation, and enlargement of buildings or structures, and excavation, grading, shore protection structures, and site preparation. This law is implemented through NJ's Coastal Zone management Rules N.J.A.C. 7:7E-1 et seq.</li> </ul>					
<b>Community Wildfire Protection Plan</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Community Forest Management Plan</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Transportation Plan</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Agriculture Plan</b>	No	-	No	-	-
<i>Comment:</i>					



	Do you have this? (Yes/No)	Authority that enforces (Federal, State, Regional, County, Local)	Is this State Mandated?	Have aspects of the HMP been integrated into your codes/ordinances/plans?	
				If yes-how? Describe in comments.	If no - add Mitigation Action #, if applicable.
<b>Climate Action Plan</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Tourism Plan</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Business Development Plan</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Other: Open Space Plan</b>	Yes	Local	No	No	-
<i>Comment:</i>					
<ul style="list-style-type: none"> <li>This plan was adopted on June 24, 2003.</li> <li>The MC is responsible for this plan in compliance with Chapter 215.</li> </ul>					
<b>Response/Recovery Planning</b>					
<b>Comprehensive Emergency Management Plan (CEMP) / Emergency Operations Plan (EOP)</b>	Yes	Local	Yes	Yes	-
<i>Comment:</i>					
<ul style="list-style-type: none"> <li>Each county and municipality in the State shall prepare a written Emergency Operations Plan with all appropriate annexes necessary to implement the plan. Each Emergency Operations Plan shall be adopted no later than one year after the State Emergency Planning Guidelines have been adopted by the State Office of Emergency Management and shall be evaluated at such subsequent scheduled review of the State Emergency Operations Plan. L.1989, c.222, s.19.</li> <li>This plan was adopted in 2010, updated in March 2019, and approved by the New Jersey State Police.</li> <li>The Office of Emergency Management is responsible for this plan.</li> </ul>					
<b>Threat &amp; Hazard Identification &amp; Risk Assessment (THIRA)</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Post-Disaster Recovery Plan</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Continuity of Operations Plan</b>	No	-	No	-	-
<i>Comment:</i>					
<b>Public Health Plan</b>	Yes	County	Yes	-	-
<i>Comment: There is a public health plan within the Emergency Operations Plan and is subject to the jurisdiction of the Sussex County Health Department.</i>					
<b>Other</b>	No	-	No	-	-
<i>Comment:</i>					

**Table 9.10-4. Development and Permitting Capability**

Criterion	Response
Does your jurisdiction issue development permits? - If no, who does? If yes, which department?	Yes, Construction Department
Does your jurisdiction have the ability to track permits by hazard area?	Yes, the Borough has access to the County GIS system
Does your jurisdiction have a buildable lands inventory? -If yes, please describe briefly. -If no, please quantitatively describe the level of buildout in the jurisdiction.	No



**ADMINISTRATIVE AND TECHNICAL CAPABILITY**

The table below summarizes potential staff and personnel resources available to the Borough of Hamburg.

**Table 9.10-5. Administrative and Technical Capabilities**

Staff/Personnel Resource	Available?	Department/Agency/Position
<b>Administrative Capability</b>		
Planning Board	Yes	Lane Use Board
Mitigation Planning Committee	No	-
Environmental Board / Commission	No	-
Open Space Board / Committee	Yes	Land Use Board, Recreation Commission
Economic Development Commission / Committee	No	-
Warning Systems / Services (reverse 911, outdoor warning signals)	No	-
Maintenance program to reduce risk	No	-
Mutual aid agreements	Yes	Mayor and Council
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	Yes	Mayor and Council
Engineers or professionals trained in building or infrastructure construction practices	Yes	Mayor and Council
Planners or engineers with an understanding of natural hazards	Yes	Mayor and Council
Staff with training in benefit/cost analysis	Yes	Engineer
Staff with training in green infrastructure	Yes	Engineer
Staff with education/knowledge/training in low impact development	Yes	Engineer
Surveyor	Yes	Mayor and Council
Stormwater engineer	Yes	Engineer
Personnel skilled or trained in GIS applications	Yes	Mayor and Council
Local or state water quality professional	Yes	John Perry-
Scientist familiar with natural hazards in local area	Yes	Mayor and Council
Emergency manager	Yes	Mayor and Council
Watershed planner	No	-
Environmental specialist	Yes	Engineer
Grant writers	Yes	Jeff Stevens
Resilience Officer	No	-
Other: NFIP Floodplain Administrator	Yes	Construction Official, Engineer

**FISCAL CAPABILITY**

The table below summarizes financial resources available to the Borough of Hamburg.

**Table 9.10-6. Fiscal Capabilities**

Financial Resource	Accessible or Eligible to Use?
Community Development Block Grants (CDBG, CDBG-DR)	Yes
Capital Improvements Project Funding	Yes
Authority to Levy Taxes for Specific Purposes	Yes



Financial Resource	Accessible or Eligible to Use?
User Fees for Water, Sewer, Gas or Electric Service	Yes
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
State-Sponsored Grant Programs	Yes
Development Impact Fees for Homebuyers or Developers	No
Clean Water Act 319 Grants (Nonpoint Source Pollution)	No
Other: Open Space Acquisition Funding Programs	Yes

**EDUCATION AND OUTREACH CAPABILITY**

The table below summarizes the education and outreach resources available to the Borough of Hamburg.

**Table 9.10-7. Education and Outreach Capabilities**

Criterion	Response
Do you have a public information officer or communications office?	No
Do you have personnel skilled or trained in website development?	Yes
Do you have hazard mitigation information available on your website? -If yes, briefly describe.	No
Do you use social media for hazard mitigation education and outreach? -If yes, briefly describe.	No
Do you have any citizen boards or commissions that address issues related to hazard mitigation? -If yes, briefly describe.	No
Do you have any other programs already in place that could be used to communicate hazard-related information? If yes, briefly describe.	No

**COMMUNITY CLASSIFICATIONS**

The table below summarizes the classifications for community programs available to the Borough of Hamburg.

**Table 9.10-8. Community Classifications**

Program	Participating?	Classification	Date Classified
Community Rating System	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	Yes	Hardyston Building Department	Hardyston Building Department
Public Protection (Fire ISO Protection Class)	Yes	Hardyston Building Department	Hardyston Building Department
Storm Ready Certification	No	-	-
Firewise Community Classification	No	-	-
Sustainable Jersey	No	-	-

**ADAPTIVE CAPACITY**

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). In other words,



it describes a jurisdiction’s current ability to adjust to, protect from, or withstand a hazard event. This term is often discussed in reference to climate change; however, adaptive capacity also includes an understanding of local capacity for adapting to current and future risks and changing conditions. The table below summarizes the adaptive capacity for each hazard and the jurisdiction’s rating.

**Table 9.10-9. Adaptive Capacity**

Hazard	Adaptive Capacity (Capabilities) - Strong/Moderate/Weak
Dam Failure	Weak
Disease Outbreak	Weak
Drought	Moderate
Earthquake	Weak
Flood	Moderate
Geologic	Moderate
Hazardous Materials	Moderate
Hurricane and Tropical Storm	Moderate
Invasive Species	Moderate
Nor’Easter	Moderate
Severe Weather	Moderate
Severe Winter Weather	Moderate
Wildfire	Moderate

Notes:

*Strong = Capacity exists and is in use; Moderate = Capacity may exist, but is not used or could use some improvement;*

*Weak = Capacity does not exist or could use substantial improvement; Unsure = Not enough information is known to assign a rating.*

**NATIONAL FLOOD INSURANCE PROGRAM**

This section provides specific information on the management and regulation of the regulatory floodplain.

**Table 9.10-10. National Flood Insurance Program Compliance**

Criterion	Response
What local department is responsible for floodplain management?	Engineering
Who is your floodplain administrator? (name, department/position)	John Ruschke, PE, CFM – Borough Engineer; Samantha Anello, PE, CFM - Engineering
Are any certified floodplain managers on staff in your jurisdiction?	Yes - John Ruschke, PE, CFM – Borough Engineer; Samantha Anello, PE, CFM - Engineering
What is the date that your flood damage prevention ordinance was last amended?	August 2011
Does your floodplain management program meet or exceed minimum requirements? -If exceeds, in what ways?	The program meets minimum requirements.
When was the most recent Community Assistance Visit or Community Assistance Contact?	December 7, 1994
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? -If so, state what they are.	No
Are any RiskMAP projects currently underway in your jurisdiction?	No



Criterion	Response
If so, state what they are.	
Do your flood hazard maps adequately address the flood risk within your jurisdiction? -If no, state why.	Yes
Does your floodplain management staff need any assistance or training to support its floodplain management program? - If so, what type of assistance/training is needed?	The FPA would consider attending continuing education and/or certification training on floodplain management if offered.
Does your jurisdiction participate in the Community Rating System (CRS)? -If yes, is your jurisdiction interested in improving its CRS Classification? -If no, is your jurisdiction interested in joining the CRS program?	No
How many flood insurance policies are in force in your jurisdiction?*	4 policies
-What is the insurance in force? -What is the premium in force?	
How many total loss claims have been filed in your jurisdiction?*	0 claims or payments
-How many claims are still open or were closed without payment? -What were the total payments for losses?	
Do you maintain a list of properties that have been damaged by flooding?	No
Do you maintain a list of property owners interested in flood mitigation?	Not currently

According to FEMA statistics as of October 13, 2020  
Reference: FEMA 2020

**OPPORTUNITIES FOR FUTURE INTEGRATION**

- **Disaster Debris Management Plan:** The Borough will develop a Disaster Debris Management Plan (2020-Hamburg-006).

**9.10.5 Hazard Event History Specific to the Jurisdiction**

Sussex County has a history of 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 in Section 4.3 (Hazards of Concern) and includes a chronology of events that affected Sussex County and its jurisdictions. The Borough of Hamburg’s history of federally-declared (as presented by FEMA) and significant hazard events (as presented in NOAA-NCEI) is consistent with that of Sussex County. Table 9.9-11 provides details regarding municipal-specific loss and damages the jurisdiction experienced during hazard events. Information provided in the table below is based on reference material or local sources.

**Table 9.10-11. Hazard Event History**

Date(s) of Event	Event Type (disaster declaration if applicable)	Sussex County Designated?	Summary of Event	Summary of Local Damages and Losses
January 22, 2016 - January 24, 2016	DR-4264: Severe Winter Weather and Snowstorm	Yes	A major nor'easter, produced record snowfall and blizzard conditions in parts of New Jersey on January 23 <sup>rd</sup> and 24 <sup>th</sup> .	Although the County was impacted, the Borough did not report damages.
January 20, 2020 and continuing	EM-3451, DR-4488: COVID-19 Pandemic	Yes	The coronavirus pandemic resulted in the need for shutdowns and social distancing and mask requirements.	The Borough was subject to closures and social distance and masking mandates.



Date(s) of Event	Event Type (disaster declaration if applicable)	Sussex County Designated?	Summary of Event	Summary of Local Damages and Losses
2020	Rainstorm	No	Large storm event resulted in significant wash out at the Limekiln road culvert in 2020. Resulted	The Borough incurred costs for DPW overtime to clean-up

Source: FEMA 2020, NOAA NCEI 2020

### 9.10.6 Jurisdiction-Specific Vulnerabilities and Hazard Ranking

The hazard profiles in Section 4 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Refer to Section 4.2 (Methodology and Tools) and Section 4.4 (Hazard Ranking) for a detailed summary for the Borough of Hamburg risk assessment results and data used to determine the hazard ranking discussed later in this section.

#### HAZARD AREA EXTENT AND LOCATION

Hazard area extent and location maps were generated for the Borough of Hamburg 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 adequate for planning purposes. Maps have been generated only for those hazards that can be clearly identified using mapping techniques and technologies and for which the Borough of Hamburg has significant exposure.

#### REPETITIVE FLOOD LOSSES

The following summarizes the repetitive and severe repetitive flood losses in the Borough of Hamburg.

- Number of repetitive loss (RL) properties: 0
- Number of severe repetitive loss (SRL) properties: 0
- Number of RL/SRL properties that have been mitigated: 0

Source: FEMA 2019

#### CRITICAL FACILITIES AND LIFELINES

The table below identifies critical facilities and lifelines in the community located in the 1-percent and 0.2-percent floodplain.

**Table 9.10-12. Critical Facilities and Lifelines Flood Exposure**

Name	Type	Exposure	
		1% Event	0.2% Event
Wheatsworth Mill #1 Dam	Dam	X	X
Wheatsworth Mill #2 Dam	Dam	X	X

Source: Sussex County Planning Partnership 2020

#### IDENTIFIED ISSUES AND PROBLEM AREAS

The jurisdiction has identified the following vulnerabilities within their community:

- The Borough has noted that dams in Hamburg need to be brought into compliance with NJDEP requirements. Currently, there are no Emergency Action Plans in place.



- The Borough has reported the need to install a backup generator at the Hamburg Elementary School and to install portable generators to deploy on an as-needed basis.
- Limekiln Road has been identified as having undersized culverts that result in periodic road flooding.
- North Governor Haines Street has been identified as being a drainage problem area.
- The Borough has identified inflow/infiltration issues with Hamburg’s water/sewer system and proposes monitoring and remedies to manage the issue.

**HAZARD RANKING**

This section summarizes the jurisdiction’s primary hazards of concern based on identified problems, impacts and the results of the risk assessment as presented in Section 4 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; its potential impacts on people, property, and the economy; community capability and changing future climate conditions. This input supports the development of mitigation actions, targeting those hazards with the highest level of concern.

As discussed in Section 4.4 (Hazard Ranking), each plan participant may have differing degrees of risk exposure and vulnerability compared to Sussex County as a whole. Therefore, the Borough of Hamburg ranked each hazard’s degree of risk as it pertains to their community factoring in their capabilities to withstand impacts and rebound after the event. The table below summarizes the hazard rankings of potential hazards for the Borough of Hamburg. The Borough of Hamburg has reviewed the Sussex County hazard ranking table and has provided input to its individual results to reflect the relative risk of the hazards of concern to the community. During the review of the hazard ranking, the Borough of Hamburg indicated the following reasons why hazard rankings have changed since the 2016 HMP:

- In 2016, the Dam Failure ranking was listed as high. In the initial 2020 risk assessment, the hazard was ranked low. The Borough requested that the ranking should be changed to high to reflect the lack of evidence for existing dams’ compliance and the lack of an Emergency Action Plan.

**Table 9.10-13. Borough of Hamburg Hazard Ranking**

Dam Failure	Disease Outbreak	Drought	Earthquake	Flood	Geologic	
High	Medium	Medium	Low	Medium	Low	
Hazardous Materials	Hurricane and Tropical Storm	Invasive Species	Nor’Easter	Severe Weather	Severe Winter Weather	Wildfire
Medium	High	Medium	High	High	High	Low

**9.10.7 Mitigation Strategy and Prioritization**

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

**PAST MITIGATION INITIATIVE STATUS**

The following table summarizes the jurisdiction’s progress on their mitigation strategy identified in the 2016 HMP. Actions that are carried forward as part of this plan update are included in Table 9.9-15 and Table 9.9-16 with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and can also be found under ‘Capability Assessment’ presented previously in this annex.



**Table 9.10-14. Status of Previous HMP Mitigation Actions**

2016 Action Number	Action Description	Responsible Party	Status (In Progress, No Progress, Ongoing Capability, or Completed)	Include in the 2021 HMP Update?	
				Check if Yes	Enter 2021 HMP Action #
Hamburg-1 (old #1)	Backup generator for shelter at Hamburg Elementary School located on Linwood Avenue.	OEM Coordinator	No Progress	X	2021-Hamburg-001
Hamburg-2 (old #2)	Retrofit roof to meet current snow load standards on Hamburg Elementary School located on Linwood Avenue.	School Administrator, Municipal Engineer	In-Progress, 50% complete	X	2021-Hamburg-002
Hamburg-3 (revised old #4)	Develop, implement, and facilitate a multi-hazard public awareness program. Provide information on all types of hazards, preparedness and mitigation measures via the Borough website and social media.	OEM Coordinator, in coordination with SCDEM	No Progress	X	2021-Hamburg-003
Hamburg-4 (new)	Multi-purpose emergency vehicle to support highways	Borough OEM	No Progress	X	2021-Hamburg-004
Hamburg-5 (new)	Purchase Bobcat Skid-Steer to use during debris cleanup operations and post-hazard events.	Borough DPW	No Progress	X	2021-Hamburg-005
Hamburg-6 (new)	Create and maintain a plan for adequate road and debris clearing capabilities within the Borough.	Borough DPW	No Progress	X	2021-Hamburg-006
Hamburg-7 (new)	Purchase portable generator for critical facilities	Municipal Engineer, OEM Coordinator	No Progress	X	2021-Hamburg-007
Hamburg-8 (new)	Utilize the Hazard Mitigation Plan (HMP) when updating the Comprehensive Master Plan; consider including hazard identification, hazard zones risk assessment information, and hazard mitigation goals as identified in the HMP. Further, the findings and recommendation of the HMP will be considered during any future site plan review processes.	Planning	No Progress	X	2021-Hamburg-008
Hamburg-9 (new)	During the Borough's rezoning procedures or update of the zoning ordinance, the Borough will recognize hazard areas as limits on changes to zoning within the municipality.	Borough Administration	No Progress	X	2021-Hamburg-009
Hamburg-10 (new)	Prepare and enforce a fire plan for the Borough and recognize the existence of wildfire	OEM Coordinator	No Progress	X	2021-Hamburg-010



2016 Action Number	Action Description	Responsible Party	Status (In Progress, No Progress, Ongoing Capability, or Completed)	Include in the 2021 HMP Update?	
				Check if Yes	Enter 2021 HMP Action #
	hazards and identify risk areas based on a vulnerability assessment.				
Hamburg-11 (new)	The Borough will work with local school districts and assist with community service projects regarding hazards and mitigation.	OEM Coordinator	No Progress	X	2021-Hamburg-011
Hamburg-12 (new)	Catch Basin & General Stormwater Facility Maintenance: The continual maintenance of catch basins and stormwater facilities is critical especially before and after large storm events	Borough DPW and Engineer	On Going Capability	X	2021-Hamburg-012
Hamburg-13 (new)	Sanitary Sewer Reinforcement: Perform a study to determine where sanitary sewer reinforcement is needed due to most imminent threats of failure or cracking.	Borough Engineer	No Progress	X	2021-Hamburg-013
Hamburg-14 (new)	Tree Removal and Maintenance in the Vicinity of Power Lines: Tree removal and maintenance in the vicinity of power lines will help minimize power outages during Severe Weather events.	Borough DPW	Ongoing	X	2021-Hamburg-014

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

The Borough of Hamburg participated in a risk assessment workshop in October 2020 in which detailed information was provided about assets exposed and vulnerable to the identified hazards of concern. The Borough of Hamburg participated in a mitigation action workshop in November 2020 and was provided a Mitigation Toolbox that included a mitigation catalog developed specifically for Sussex County and its hazards of concerns; challenges and opportunities identified during the capability and risk assessments; mitigation funding sources, and the following FEMA publications to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards: FEMA 551 *Selecting Appropriate Mitigation Measures for Floodprone Structures* (March 2007) and FEMA *Mitigation Ideas – A Resource for Reducing Risk to Natural Hazards* (January 2013). Section 6 (Mitigation Strategy) and Appendix F (Mitigation Strategy Supplement) provide a more complete description of the Mitigation Toolbox and its resources.

Table 9.9-15 summarizes the comprehensive-range of specific mitigation initiatives the Borough of Hamburg would like to pursue in the future to reduce the effects of hazards. Initiatives are dependent upon available funding (grants and local match availability) and can be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities. Both the 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 actions as *High*, *Medium*, or *Low*. The table below summarizes the evaluation of each mitigation initiative, listed by action number.

Table 9.9-16 provides a summary of the prioritization of all proposed mitigation initiatives for this HMP update.

DRAFT



Table 9.10-15. Proposed Hazard Mitigation Initiatives

Initiative Number	Mitigation Initiative Name	Description of the Problem and Solution	New or Existing Assets?	Hazard(s) to be Mitigated	Goals Met	Lead and Support Agencies	Potential Funding Sources	Estimated Benefits	Estimated Cost	Timeline	Priority	Mitigation Category	GRS Category
2021-Hamburg-001	Generator Installation	<p><b>Problem:</b> The Hamburg Elementary School does not have a backup generator to power the facility during a power outage. Because the facility is used as a shelter for the municipality, it is critical to install a generator to power the facility to be used during hazard events.</p> <p><b>Solution:</b> Install 3 phase backup generator for shelter at Hamburg Elementary School located on Linwood Avenue. The Borough Engineer and the school maintenance crew shall work together to purchase and install the generator.</p>	New	Flood, Severe Weather, Severe Winter Weather	1, 2, 3, 5, 6	OEM Coordinator	HMGP, Municipal Budget	Continued Operation	150k	1 year	Medium	SIP	PP, PR, ES
2021-Hamburg-002	Roof Upgrade	<p><b>Problem:</b> The roof of the Hamburg Elementary</p>	Existing	Severe Winter Weather	1, 2, 5	School Administrator, Municipal Engineer	Municipal Budget, School Budget	Structural Mitigation	Medium	1 year	Medium	SIP	PR, ES



Initiative Number	Mitigation Initiative Name	Description of the Problem and Solution	New or Existing Assets?	Hazard(s) to be Mitigated	Goals Met	Lead and Support Agencies	Potential Funding Sources	Estimated Benefits	Estimated Cost	Timeline	Priority	Mitigation Category	CRS Category
		<p>School cannot handle the snow load that accumulates during severe snowstorms.</p> <p><b>Solution:</b> Retrofit roof to meet current snow load standards on Hamburg Elementary School located on Linwood Avenue.</p>											
2021-Hamburg-003	Multi-Hazard Public Awareness Program	<p><b>Problem:</b> There is a lack of knowledge around hazard mitigation in the region and residents are underprepared for potential natural hazard events</p> <p><b>Solution:</b> Develop, implement, and facilitate a multi-hazard public awareness program. Provide information on all types of hazards, preparedness and mitigation measures via the Borough</p>	New	All Hazards	1, 2, 3, 4, 5, 6	OEM Coordinator, in coordination with SCDEM	Municipal Budget	Preparedness and Increase Public Knowledge	Low	5 years	Medium	EAP	PR, PI



Initiative Number	Mitigation Initiative Name	Description of the Problem and Solution	New or Existing Assets?	Hazard(s) to be Mitigated	Goals Met	Lead and Support Agencies	Potential Funding Sources	Estimated Benefits	Estimated Cost	Timeline	Priority	Mitigation Category	CRS Category
		website and social media.											
2021-Hamburg-004	Purchase Emergency vehicle	<p><b>Problem:</b> The municipality does not have an emergency vehicle to support highway and issues related to road closures and issues related to severe weather. Additional vehicles will increase capacity and overall response.</p> <p><b>Solution:</b> The Municipality shall purchase a multi-purpose emergency vehicle to support highways.</p>	New	All Hazards	3, 5, 6	Borough OEM	Municipal Budget, HMGP,	Increased Capacity	Low	5 year	Medium	SIP	PP, ES
2021-Hamburg-005	Purchase Bobcat Skid-Steer	<p><b>Problem:</b> The municipality struggles to keep up with debris cleanup operation immediately after storm events. This could cause significant issues around subsequent flooding due to clogging of roadways and waterbodies.</p>	New	Severe Weather, Flood	1, 2, 4, 5	Borough DPW	Municipal Budget, HMGP, New Jersey Department of Transportation – Local Aid Program	Increased capability	Medium	1 year	Medium	SIP	PR, PP





Initiative Number	Mitigation Initiative Name	Description of the Problem and Solution	New or Existing Assets?	Hazard(s) to be Mitigated	Goals Met	Lead and Support Agencies	Potential Funding Sources	Estimated Benefits	Estimated Cost	Timeline	Priority	Mitigation Category	CRS Category
		<b>Solution:</b> Purchase Bobcat Skid-Steer to use during debris cleanup operations and post-hazard events.											
2021-Hamburg-006	Develop Disaster Debris Management Plan	<b>Problem:</b> The municipality has not developed a comprehensive strategy to address debris clearing during and after a hazard event. <b>Solution:</b> Create and maintain a plan for adequate road and debris clearing capabilities within the Borough.	New	All Hazards	1, 2, 4, 5	Borough DPW	Municipal Budget	Streamlined Response	Low	1 year	High	LPR	ES
2021-Hamburg-007	Portable Generator	<b>Problem:</b> Not all critical facilities have backup power. <b>Solution:</b> Purchase portable generators for critical facilities that can be used to power the bare essentials during a hazard event	New	Hurricane, Nor'Easter, Severe Weather, Severe Winter Weather	1, 2, 3, 5	Municipal Engineer, OEM Coordinator	HMGP	Continued Operation	Low	1 year	Medium	LPR	PR
2021-Hamburg-008	HMP Implementation	<b>Problem:</b> The municipality has previously not been successful	Existing	All	1, 2, 3, 4, 5, 6, 7	Planning	Municipal Budget	Enhanced Planning	Low	5 years	High	LPR	PR



Initiative Number	Mitigation Initiative Name	Description of the Problem and Solution	New or Existing Assets?	Hazard(s) to be Mitigated	Goals Met	Lead and Support Agencies	Potential Funding Sources	Estimated Benefits	Estimated Cost	Timeline	Priority	Mitigation Category	CRS Category
		<p>in implementing hazard mitigation actions within the municipality.</p> <p><b>Solution:</b> Utilize the Hazard Mitigation Plan (HMP) when updating the Comprehensive Master Plan; consider including hazard identification, hazard zones risk assessment information, and hazard mitigation goals as identified in the HMP. Further, the findings and recommendation of the HMP will be considered during any future site plan review processes.</p>											
2021-Hamburg-009	Hazard Area Identification and Plan Implementation	<p><b>Problem:</b> The municipality has previously not been successful in identifying potential hazard areas within the municipality.</p> <p><b>Solution:</b> During the Borough's</p>	Existing	All	1, 2, 3, 4, 5, 6, 7	Borough Administration	Municipal Budget as Needed	Hazard Mitigation	Low	5 years and longer	High	LPR	PR



Initiative Number	Mitigation Initiative Name	Description of the Problem and Solution	New or Existing Assets?	Hazard(s) to be Mitigated	Goals Met	Lead and Support Agencies	Potential Funding Sources	Estimated Benefits	Estimated Cost	Timeline	Priority	Mitigation Category	CRS Category
		rezoning procedures or update of the zoning ordinance, the Borough will recognize hazard areas as limits on changes to zoning within the municipality.											
2021-Hamburg-010	Fire Plan Implementation	<p><b>Problem:</b> The municipality has previously not been successful in implementing the municipal fire plan proposed actions.</p> <p><b>Solution:</b> Prepare and enforce a fire plan for the Borough and recognize the existence of wildfire hazards and identify risk areas based on a vulnerability assessment.</p>	Existing	All	1, 2, 3, 4, 5, 6, 7	OEM Coordinator	Municipal Budget as Needed	All	Low	5 years and longer	High	LPR	PR
2021-Hamburg-011	Local School Districts HMP Implementation	<p><b>Problem:</b> The municipality has previously not been able to successfully implement hazard mitigation actions in coordination</p>	Existing	All	1, 2, 3, 4, 5, 6, 7	OEM Coordinator	Municipal Budget as Needed	HMP Integration	Low	5 years	Medium	LPR	PR



Initiative Number	Mitigation Initiative Name	Description of the Problem and Solution	New or Existing Assets?	Hazard(s) to be Mitigated	Goals Met	Lead and Support Agencies	Potential Funding Sources	Estimated Benefits	Estimated Cost	Timeline	Priority	Mitigation Category	CRS Category
		with the local school districts. <b>Solution:</b> The Borough will work with local school districts and assist with community service projects regarding hazards and mitigation.											
2021-Hamburg-012	Stormwater Maintenance Program	<b>Problem:</b> The municipality has previously had trouble around stormwater infrastructure maintenance capabilities <b>Solution:</b> The municipality would like to increase maintenance capabilities of catch basins and stormwater facilities is critical especially before and after large storm events. The municipality can do this by developing a program that can be coordinated with other municipalities to facilitate the maintained of	New	Flood, Severe Weathers	1, 2, 3, 5	Borough DPW and Engineer	HMGP, BRIC Municipal Budget as needed; New Jersey Water Bank; Environmental Infrastructure Financing Program	Increased organized capacity	Low	5 years	High	LPR	PR



Initiative Number	Mitigation Initiative Name	Description of the Problem and Solution	New or Existing Assets?	Hazard(s) to be Mitigated	Goals Met	Lead and Support Agencies	Potential Funding Sources	Estimated Benefits	Estimated Cost	Timeline	Priority	Mitigation Category	CRS Category
		local stormwater infrastructure.											
2021-Hamburg-013	Reinforcements	<p><b>Problem:</b> The Sewer Sanitary Facility has been having issues around building cracking which has led to the threat of potential disrupted operation of the critical service.</p> <p><b>Solution:</b> Sanitary Sewer Reinforcement: Perform a study to determine where sanitary sewer reinforcement is needed due to most imminent threats of failure or cracking.</p>	New	Flood, Severe Weather	1, 2, 3, 5	Borough Engineer	HMGP, Municipal Budget	Fix Structure disrepairs	Low	2 years	Medium	SIP	SP
2021-Hamburg-014	Tree Maintenance	<p><b>Problem:</b> In previous years, the municipality has experienced accidents around tree falling and disrupting the utility lines, subsequently causing power outages. The Borough is now on the power company's tree trimming program which</p>	New	Hurricane, Nor'Easter, Severe Weather, Severe Winter Weather	1, 2, 3, 4, 5	Borough DPW	HMGP, Municipal Budget	Better Tree Maintenance	High	2 years	Medium	LPR SP,	PP, NR



Initiative Number	Mitigation Initiative Name	Description of the Problem and Solution	New or Existing Assets?	Hazard(s) to be Mitigated	Goals Met	Lead and Support Agencies	Potential Funding Sources	Estimated Benefits	Estimated Cost	Timeline	Priority	Mitigation Category	CRS Category
		is implemented every three years. <b>Solution:</b> Tree Removal and Maintenance in the Vicinity of Power Lines: Tree removal and maintenance in the vicinity of power lines will help minimize power outages during Severe Weather events. The municipality work with the County to develop strategy to conduct tree maintenance.											
2021-Hamburg-015	Hamburg Borough Building Code Update	<b>Problem:</b> Building Codes need to be periodically reviewed for updates to keep up with changing regulations and reduce hazard risks <b>Solution:</b> Perform periodical building code reviews and make updates as required	Existing	All Hazards	1	<u>Construction Code Official</u>	N/A – Staff Time	Low	Low	Ongoing	High	LPR	PR/PP
	Evaluation of Bridges and	<b>Problem:</b> Aged Infrastructure	Existing	Flood/Severe Weather	1	<u>Borough Administration</u>	Borough	High	High	Short	High	LPR	PR



Initiative Number	Mitigation Initiative Name	Description of the Problem and Solution	New or Existing Assets?	Hazard(s) to be Mitigated	Goals Met	Lead and Support Agencies	Potential Funding Sources	Estimated Benefits	Estimated Cost	Timeline	Priority	Mitigation Category	CRS Category
2021-Hamburg-016	Other River Structures	<b>Solution:</b> A comprehensive master plan should be developed for appropriate sizing of the bridge openings and setting road elevations to provide maximum benefits as the bridges are eventually replaced over time.				Township Engineer							
2021-Hamburg-017	Hazard Warning System	<b>Problem:</b> Hazard warning systems need to be developed. <b>Solution:</b> The hazard warning system resources available to the Township should be reviewed and utilized.	Existing	All Hazards	1, 2, 3, 4	Borough Administration Township Engineer	Borough	High	Low	Short	High	EAP	PI
2021-Hamburg-018	Stream Cleaning & Maintenance	<b>Problem:</b> The required removal of built-up debris and sediment/silt buildup within streams and rivers. Bridge openings must be maintained. <b>Solution:</b> Removal of debris,	Existing	Flood, Severe Weather, Severe Winter Weather	1, 3	Borough Administration Township Engineer	Borough; Capital Improvements	High	Low	Short – Annual Basis	High	NSP	PR, PP, NR, SP



Initiative Number	Mitigation Initiative Name	Description of the Problem and Solution	New or Existing Assets?	Hazard(s) to be Mitigated	Goals Met	Lead and Support Agencies	Potential Funding Sources	Estimated Benefits	Estimated Cost	Timeline	Priority	Mitigation Category	CRS Category
		sediment, and silt from the channel as well as bridge openings by volunteer groups and outside contractors when needed.											
2021-Hamburg-019	GIS Mapping of Catch Basin & General Stormwater Facilities	<p><b>Problem:</b> The location of all catch basins and stormwater facilities, both private and public, need to be identified, mapped, and located for planning and maintenance</p> <p><b>Solution:</b> Create a GIS mapping system of catch basins, stormwater facilities, basins, culverts, and other drainage features and structures</p>	Existing	Flood, Severe Weather	1	Borough Administration, Township Engineer DPW Supervisor	Borough, PDM	High	Low	Short	High	NSP, SIP	PR, PP
2021-Hamburg-020	Dam project	<p><b>Problem:</b> No evidence of existing dams being in compliance with Dam Safety Requirements; No Emergency Action Plan for Dam failure.</p> <p><b>Solution:</b> The Borough will</p>	Existing	Dam Failure	7	Administration, Dam owners	Borough budget	Dams brought into compliance with NJDEP Dam Safety Requirements	Staff time	1 year	High	EAP	PI





Initiative Number	Mitigation Initiative Name	Description of the Problem and Solution	New or Existing Assets?	Hazard(s) to be Mitigated	Goals Met	Lead and Support Agencies	Potential Funding Sources	Estimated Benefits	Estimated Cost	Timeline	Priority	Mitigation Category	CRS Category
		work with dam owners to gain copies of Emergency Action Plans or instruct them to develop Plan in conjunction with NJDEP.											
2021-Hamburg-021	North Governor Haines Street Drainage	<p><b>Problem:</b> North Governor Haines Street experiences drainage issues.</p> <p><b>Solution:</b> The Borough will conduct a feasibility study for North Governor Haines Street drainage issues. If cost-effective measures are identified, the Borough will pursue grant funding and implement the selected actions.</p>	Existing	Flood, Severe Weather	2	Engineer, DPW	HMGP, BRIC, municipal budget	Reduction in flood risk	\$200,000	Within 5 years	High	SIP	SP
2021-amburg-022	Limekiln Road Drainage Improvement Project	<p><b>Problem:</b> Existing Culvert does not have adequate capacity. Results in flooding on roadway and near Pump Station</p> <p><b>Solution:</b> Culvert and drainage</p>	Existing	Flood, Severe Weather	2	Engineering	HMGP, BRIC, Municipal Budget	Reduction in Flood Risk	\$500,000	Within 5 years	High	SIP	SP



Initiative Number	Mitigation Initiative Name	Description of the Problem and Solution	New or Existing Assets?	Hazard(s) to be Mitigated	Goals Met	Lead and Support Agencies	Potential Funding Sources	Estimated Benefits	Estimated Cost	Timeline	Priority	Mitigation Category	CRS Category
		channel improvements are required to pass required capacity.											

Notes:

Acronyms and Abbreviations:

CAV Community Assistance Visit  
 CRS Community Rating System  
 DPW Department of Public Works  
 FEMA Federal Emergency Management Agency  
 FPA Floodplain Administrator  
 HMA Hazard Mitigation Assistance  
 N/A Not applicable  
 NFIP National Flood Insurance Program  
 OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

BRIC Building Resilient Infrastructure and Communities  
 FMA Flood Mitigation Assistance Grant Program  
 HMGP Hazard Mitigation Grant Program

Timeline:

The time required for completion of the project upon implementation

Cost:

The estimated cost for implementation.

Benefits:

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

Mitigation Category:

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

CRS Category:

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





Table 9.10-16. Summary of Evaluation and Action Priorities

Initiative Number	Mitigation Initiative Name	Life Safety	Property Protection	Cost Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
2021-Hamburg-001	Backup generator for shelter at Hamburg Elementary School located on Linwood Avenue.	0	0	1	0	0	0	0	0	1	1	1	1	1	1	7	Medium
2021-Hamburg-002	Retrofit roof to meet current snow load standards on Hamburg Elementary School located on Linwood Avenue.	1	1	1	1	0	0	0	0	0	0	1	1	1	1	7	Medium
2021-Hamburg-003	Develop, implement, and facilitate a multi-hazard public awareness program. Provide information on all types of hazards, preparedness and mitigation measures via the Borough website and social media.	0	0	1	1	0	0	0	0	0	1	1	1	1	0	6	Medium
2021-Hamburg-004	Multi-purpose emergency vehicle to support highways	1	0	1	0	0	0	1	0	0	1	1	1	1	1	8	Medium
2021-Hamburg-005	Purchase Bobcat Skid-Steer to use during debris cleanup operations and post-hazard events.	1	0	1	0	0	0	1	0	0	1	1	1	1	1	8	Medium
2021-Hamburg-006	Create and maintain a plan for adequate road and debris clearing capabilities within the Borough.	1	1	1	1	0	0	0	0	0	1	1	1	1	1	9	High



Initiative Number	Mitigation Initiative Name	Life Safety	Property Protection	Cost Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
2021-Hamburg-007	Purchase portable generator for critical facilities	0	0	1	0	0	0	0	0	1	1	1	1	1	1	7	Medium
2021-Hamburg-008	Utilize the Hazard Mitigation Plan (HMP) when updating the Comprehensive Master Plan; consider including hazard identification, hazard zones risk assessment information, and hazard mitigation goals as identified in the HMP. Further, the findings and recommendation of the HMP will be considered during any future site plan review processes.	1	1	1	1	1	0	0	0	0	1	1	1	1	1	10	High
2021-Hamburg-009	During the Borough's rezoning procedures or update of the zoning ordinance, the Borough will recognize hazard areas as limits on changes to zoning within the municipality.	1	1	1	1	1	0	0	0	0	1	1	1	1	1	10	High
2021-Hamburg-010	Prepare and enforce a fire plan for the Borough and recognize the existence of wildfire hazards and identify	1	1	1	1	1	0	0	0	0	1	1	1	1	1	10	High



Initiative Number	Mitigation Initiative Name	Life Safety	Property Protection	Cost Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
	risk areas based on a vulnerability assessment.																
2021-Hamburg-011	The Borough will work with local school districts and assist with community service projects regarding hazards and mitigation.	0	0	1	1	0	0	0	0	0	1	1	1	1	0	6	Medium
2021-Hamburg-012	Catch Basin & General Stormwater Facility Maintenance: The continual maintenance of catch basins and stormwater facilities is critical especially before and after large storm events	0	1	1	0	0	0	0	1	1	1	1	1	1	1	9	High
2021-Hamburg-013	Sanitary Sewer Reinforcement: Perform a study to determine where sanitary sewer reinforcement is needed due to most imminent threats of failure or cracking.	0	1	1	1	0	0	0	0	0	1	0	1	1	1	7	Medium
2021-Hamburg-014	Tree Removal and Maintenance in the Vicinity of Power Lines: Tree removal and maintenance in the vicinity of power lines will help minimize power	0	1	1	0	0	0	0	1	1	1	0	1	1	1	8	Medium



Initiative Number	Mitigation Initiative Name	Life Safety	Property Protection	Cost Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
	outages during Severe Weather events.																
2021-Hamburg-015	Hamburg Borough Building Code Update	0	1	1	1	0	1	0	0	0	1	1	1	1	0	8	Medium
2021-Hamburg-016	Evaluation of Bridges and Other River Structures	1	1	1	1	0	0	0	1	0	1	1	1	0	1	9	High
2021-Hamburg-017	Hazard Warning System	1	0	1	0	0	1	1	0	1	1	1	0	1	1	9	High
2021-Hamburg-018	Stream Cleaning & Maintenance	0	1	1	0	0	0	0	1	1	1	1	1	1	1	9	High
2021-Hamburg-019	GIS Mapping of Catch Basin & General Stormwater Facilities	0	0	1	1	0	0	0	1	1	1	1	1	1	1	9	High ▲
2021-Hamburg-020	Dam project	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High
2021-Hamburg-021	North Governor Haines Street Drainage	0	1	0	1	1	1	0	1	0	1	1	0	1	1	9	High ▲
2021-Hamburg-022	Limekiln Road Drainage Improvement Project	1	1	0	1	1	1	0	1	0	1	1	0	1	1	10	High ▲

Notes: Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).

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



Table 9.10-17. Analysis of Mitigation Actions by Hazard and Category

Hazard	Prevention	Property Protection	Public Education and Awareness	Natural Resource Protection	Emergency Services	Structural Projects	Climate Resilient	Community Capacity Building
Dam Failure	X	X	X		X			X
Disease Outbreak	X	X	X		X			X
Drought	X	X	X		X			X
Earthquake	X	X	X		X			X
Flood	X	X	X	X	X	X		X
Geologic	X	X	X		X			X
Hazardous Materials	X	X	X		X			X
Hurricane and Tropical Storm	X	X	X		X			X
Invasive Species	X	X	X		X			X
Nor'Easter	X	X	X		X			X
Severe Weather	X	X	X	X	X	X		X
Severe Winter Weather	X	X	X	X	X			X
Wildfire	X	X	X		X			X

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

high ranked hazard

ORANGE medium ranked hazard

YELLOW low ranked hazard

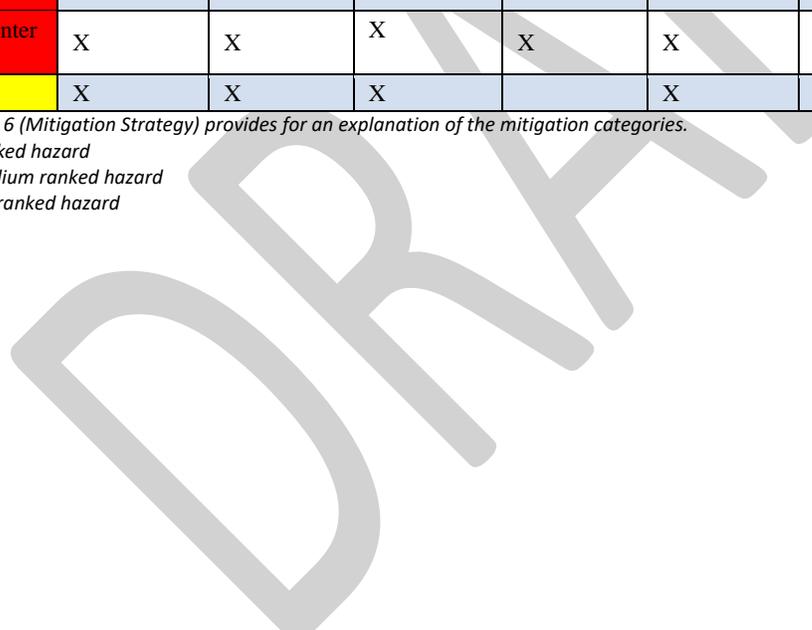




Figure 9.10-1. Borough of Hamburg Hazard Area Extent and Location Map 1

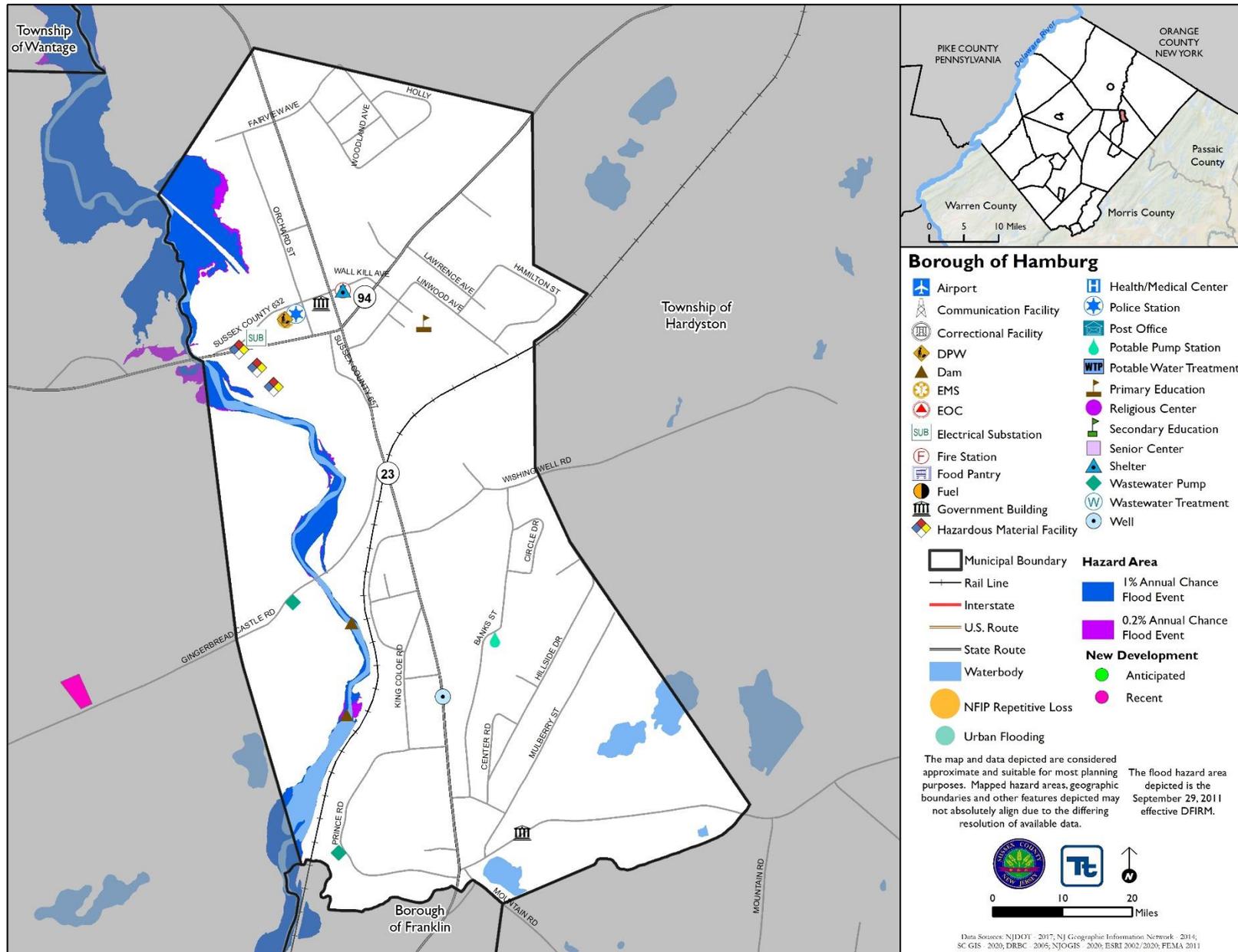




Figure 9.10-2. Borough of Hamburg Hazard Area Extent and Location Map 2

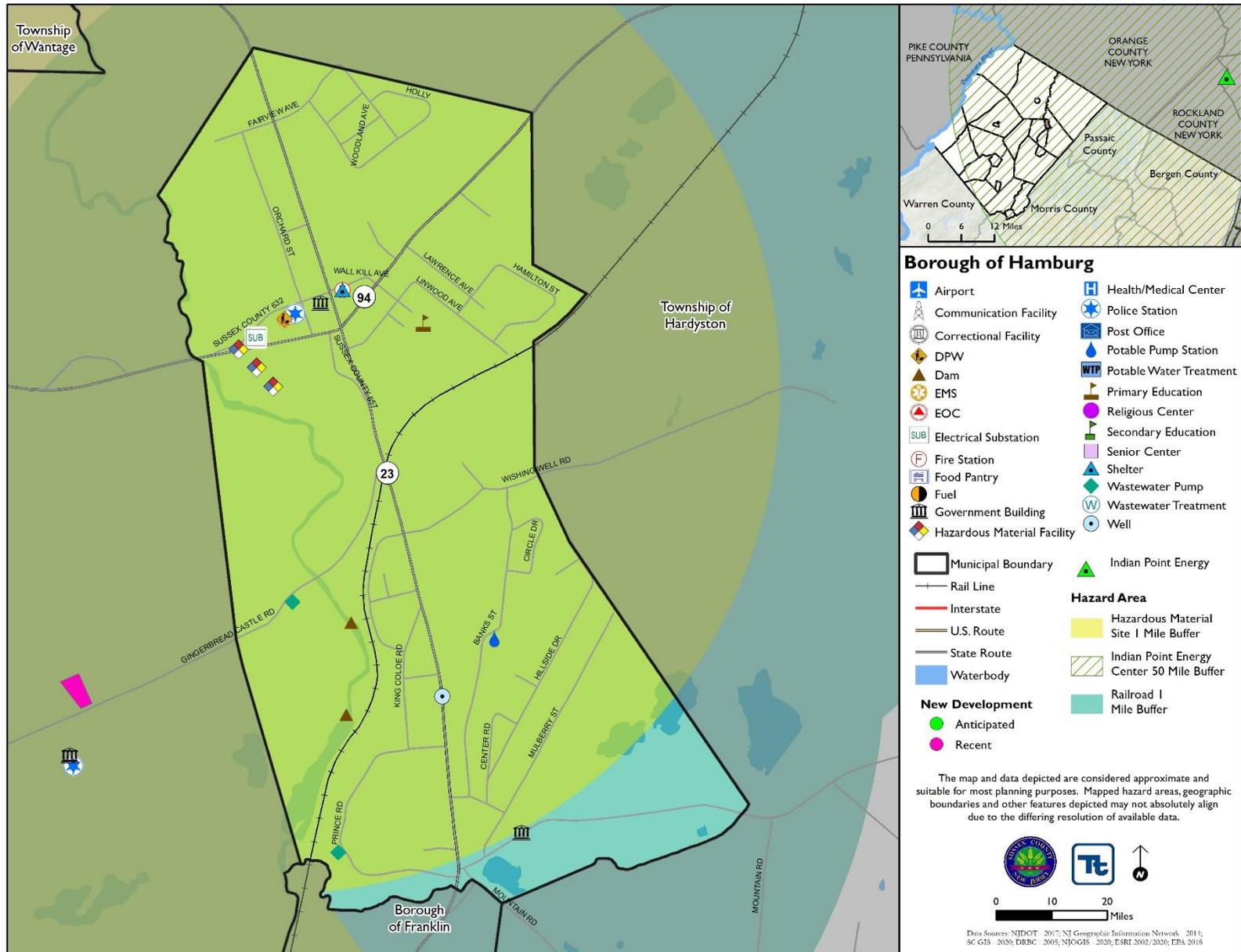
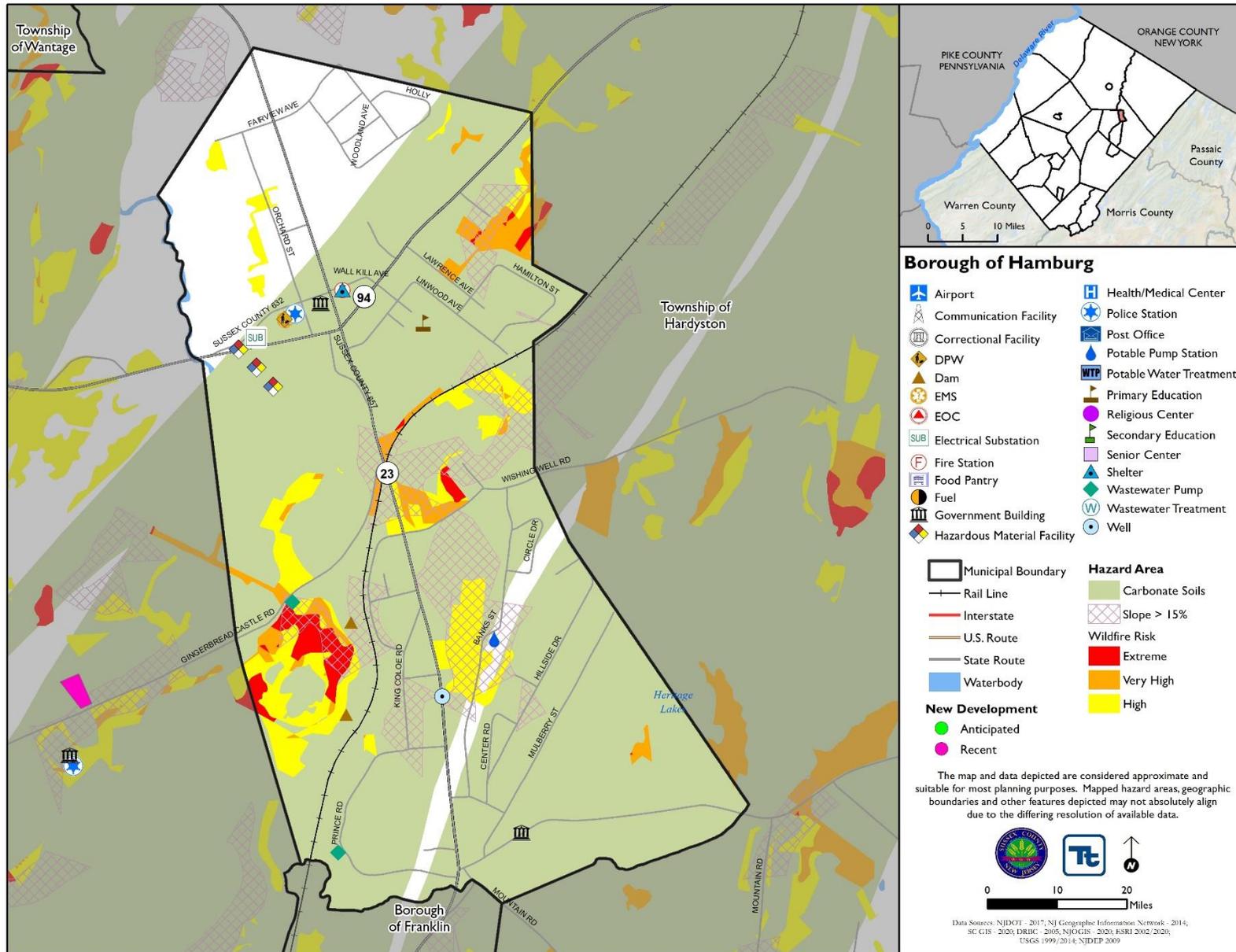




Figure 9.10-3 Borough of Hamburg Hazard Area Extent and Location Map 3





Action Worksheet			
<b>Project Name:</b>	Generator Installation		
<b>Project Number:</b>	2020-Hamburg-001		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Flood, Severe Weather, Severe Winter Weather		
<b>Description of the Problem:</b>	The Hamburg Elementary School does not have a backup generator to power the facility during a power outage. Because the facility is used as a shelter for the municipality, it is critical to install a generator to power the facility to be used during hazard events.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Install 3 phase backup generator for shelter at Hamburg Elementary School located on Linwood Avenue. The Borough Engineer and the school maintenance crew shall work together to purchase and install the generator.		
<b>Is this project related to a Critical Facility or Lifeline?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
<b>Level of Protection:</b>	500-year storm	<b>Estimated Benefits (losses avoided):</b>	Continued Operation
<b>Useful Life:</b>	20 years	<b>Goals Met:</b>	1, 2, 3, 5, 6
<b>Estimated Cost:</b>	100k	<b>Mitigation Action Type:</b>	Structural and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	Medium	<b>Desired Timeframe for Implementation:</b>	1 year once funding received
<b>Estimated Time Required for Project Implementation:</b>	1 year	<b>Potential Funding Sources:</b>	HMGP
<b>Responsible Organization:</b>	OEM Coordinator	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Current problem continues
	Install Solar	High	Weather Dependent
	Generator Installation	Medium	Best alternative
Progress Report (for plan maintenance)			
<b>Date of Status Report:</b>			
<b>Report of Progress:</b>			
<b>Update Evaluation of the Problem and/or Solution:</b>			



Action Worksheet		
<b>Project Name:</b>	Generator Installation	
<b>Project Number:</b>	2020-Hamburg-001	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	This project protects life and property
Property Protection	0	This project protects life and property
Cost-Effectiveness	1	
Technical	0	Additional technical resources are needed
Political	0	There are no known political complications
Legal	0	There are no known legal complications
Fiscal	0	Additional funding is needed
Environmental	0	No adverse environmental impacts
Social	1	
Administrative	1	
Multi-Hazard	1	
Timeline	1	
Agency Champion	1	
Other Community Objectives	1	
<b>Total</b>	7	
<b>Priority (High/Med/Low)</b>	Medium	



Action Worksheet			
<b>Project Name:</b>	Purchase Bobcat Skid-Steer		
<b>Project Number:</b>	2020-Hamburg-005		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Flood, Severe Weather, Severe Winter Weather		
<b>Description of the Problem:</b>	The municipality struggles to keep up with debris cleanup operation immediately after storm events. This could cause significant issues around subsequent flooding due to clogging of roadways and waterbodies.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Purchase Bobcat Skid-Steer to use during debris cleanup operations and post-hazard events. Details are unknown at this point. The DPW shall determine the size needed for the municipality and coordinate with the municipality on how to raise money to purchase the machinery.		
<b>Is this project related to a Critical Facility or Lifeline?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
<b>Level of Protection:</b>	500-year storm	<b>Estimated Benefits (losses avoided):</b>	Continued Operation
<b>Useful Life:</b>	20 years	<b>Goals Met:</b>	1, 2, 4, 5
<b>Estimated Cost:</b>	Medium	<b>Mitigation Action Type:</b>	Structural and Infrastructure Project
Plan for Implementation			
<b>Prioritization:</b>	Medium	<b>Desired Timeframe for Implementation:</b>	1 year once funding received
<b>Estimated Time Required for Project Implementation:</b>	1 year	<b>Potential Funding Sources:</b>	HMGP, New Jersey Department of Transportation - Local Aid Program, Municipal Budget
<b>Responsible Organization:</b>	Borough DPW	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Hazard Mitigation
Three Alternatives Considered (including No Action)			
<b>Alternatives:</b>	<b>Action</b>	<b>Estimated Cost</b>	<b>Evaluation</b>
	No Action	\$0	Current problem continues
	Hire contractor to conduct any additional work	Low	Low cost but dependent on external aid which might not be fully reliable
	Purchase Bobcat Skid Steer	Medium	Best alternative
Progress Report (for plan maintenance)			
<b>Date of Status Report:</b>			
<b>Report of Progress:</b>			
<b>Update Evaluation of the Problem and/or Solution:</b>			



Action Worksheet		
<b>Project Name:</b>	Purchase Bobcat Skid-Steer	
<b>Project Number:</b>	2020-Hamburg-005	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	0	This project protects property
Cost-Effectiveness	1	
Technical	0	Additional technical resources are needed
Political	0	There are no known political complications
Legal	0	There are no known legal complications
Fiscal	1	
Environmental	0	No adverse environmental impacts
Social	0	There are no social effects
Administrative	1	
Multi-Hazard	1	
Timeline	1	
Agency Champion	1	
Other Community Objectives	1	
<b>Total</b>	8	
<b>Priority (High/Med/Low)</b>	Medium	



Action Worksheet			
<b>Project Name:</b>	Develop Debris Management Plan		
<b>Project Number:</b>	2020-Hamburg-006		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	All Hazards		
<b>Description of the Problem:</b>	The municipality has not developed a comprehensive strategy to address debris clearing during and after a hazard event. As a result, the municipality is unable to respond to debris clearance in a concise and organized manner. While increased capacity would also be beneficial, better organization and coordination of existing resources can also be useful.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Create and maintain a plan for adequate road and debris clearing capabilities within the Borough. Coordinate with the DPW and County to develop an inventory of existing sites that need constant debris clearance and for repetitive flooded sites that pose constant issues for the municipality, develop relevant mitigation actions. Finally, develop methodologies for addressing debris management after a Severe Weather and areas that require immediate response.		
<b>Is this project related to a Critical Facility or Lifeline?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
<b>Level of Protection:</b>	500-year storm	<b>Estimated Benefits (losses avoided):</b>	Streamlined Operations
<b>Useful Life:</b>	5 years	<b>Goals Met:</b>	1, 2,4, 5
<b>Estimated Cost:</b>	Medium	<b>Mitigation Action Type:</b>	Local Plans and Regulations
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	1 year once funding received
<b>Estimated Time Required for Project Implementation:</b>	1 year	<b>Potential Funding Sources:</b>	Municipal Budget
<b>Responsible Organization:</b>	Borough DPW	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Current problem continues
	Increase current capacity	High	Would need additional equipment, staff, and larger facility
	Debris management plan	Low	Best solution
Progress Report (for plan maintenance)			
<b>Date of Status Report:</b>			
<b>Report of Progress:</b>			
<b>Update Evaluation of the Problem and/or Solution:</b>			



Action Worksheet		
<b>Project Name:</b>	Develop Debris Management Plan	
<b>Project Number:</b>	2020-Hamburg-006	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	0	There might be some political complications
Legal	0	There are potential legal complications
Fiscal	0	Resource needs have not yet been identified
Environmental	0	There are no adverse environmental impacts
Social	0	There are no adverse social impacts
Administrative	1	
Multi-Hazard	1	All Hazards
Timeline	1	
Agency Champion	1	
Other Community Objectives	1	
<b>Total</b>	9	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	Stormwater Maintenance Program		
<b>Project Number:</b>	2020-Hamburg-012		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Severe Weather, Flood		
<b>Description of the Problem:</b>	The municipality has previously had trouble around stormwater infrastructure maintenance capabilities and would like to increase its overall capacity.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	The municipality would like to increase maintenance capabilities of catch basins and stormwater facilities is critical especially before and after large storm events. The municipality can do this by developing a program that can be coordinated with other municipalities to facilitate the maintained of local stormwater infrastructure.		
<b>Is this project related to a Critical Facility or Lifeline?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
<b>Level of Protection:</b>	500-year storm	<b>Estimated Benefits (losses avoided):</b>	Increased organized capacity
<b>Useful Life:</b>	NA	<b>Goals Met:</b>	1, 2, 3, 5
<b>Estimated Cost:</b>	Low	<b>Mitigation Action Type:</b>	Local Plans and Regulations
Plan for Implementation			
<b>Prioritization:</b>	Medium	<b>Desired Timeframe for Implementation:</b>	1 year once funding received
<b>Estimated Time Required for Project Implementation:</b>	1 year	<b>Potential Funding Sources:</b>	HMGP, BRIC Municipal Budget as needed; New Jersey Water Bank; Environmental Infrastructure Financing Program
<b>Responsible Organization:</b>	Borough DPW and Engineer	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Current problem continues
	Hire contractor to conduct any additional work	Low	Low cost but dependent on external aid which might not be fully reliable
	Purchase Bobcat Skid Steer	Medium	Best alternative
Progress Report (for plan maintenance)			
<b>Date of Status Report:</b>			
<b>Report of Progress:</b>			
<b>Update Evaluation of the Problem and/or Solution:</b>			



Action Worksheet		
<b>Project Name:</b>	Stormwater Maintenance Program	
<b>Project Number:</b>	2020-Hamburg-012	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	
Technical	0	Technical issues have not been identified
Political	0	Political issues have not been identified
Legal	0	No legal issues have been identified
Fiscal	0	The exact cost has not yet been identified
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	
Timeline	1	
Agency Champion	1	
Other Community Objectives	1	
<b>Total</b>	10	
<b>Priority (High/Med/Low)</b>	High	



Action Worksheet			
<b>Project Name:</b>	Reinforcements		
<b>Project Number:</b>	2020-Hamburg-013		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Severe Weather, Flood		
<b>Description of the Problem:</b>	The Sewer Sanitary Facility has been having issues around building cracking which has led to the threat of potential disrupted operation of the critical service. The facility deals with municipal sewer and therefore needs to be in full operation at all times.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	The municipal DPW shall perform a study to determine where sanitary sewer reinforcement is needed due to most imminent threats of failure or cracking. The DPW and borough engineer could hire a contractor to conduct this assessment and determine the steps that need to be taken.		
<b>Is this project related to a Critical Facility or Lifeline?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
<b>Level of Protection:</b>	500-year storm	<b>Estimated Benefits (losses avoided):</b>	Fix Structure disrepairs
<b>Useful Life:</b>	15 years	<b>Goals Met:</b>	1, 2, 3, 5
<b>Estimated Cost:</b>	Low	<b>Mitigation Action Type:</b>	Structural and Infrastructure Projects
Plan for Implementation			
<b>Prioritization:</b>	Medium	<b>Desired Timeframe for Implementation:</b>	1 year once funding received
<b>Estimated Time Required for Project Implementation:</b>	2 years	<b>Potential Funding Sources:</b>	HMGP, Municipal Budget
<b>Responsible Organization:</b>	Borough Engineer	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Current problem continues
	Construct a new facility	High	Existing facility needs to be closed
	Reinforcements Study	Low	Best solution
Progress Report (for plan maintenance)			
<b>Date of Status Report:</b>			
<b>Report of Progress:</b>			
<b>Update Evaluation of the Problem and/or Solution:</b>			



Action Worksheet		
<b>Project Name:</b>	Reinforcements	
<b>Project Number:</b>	2020-Hamburg-013	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	
Cost-Effectiveness	1	
Technical	0	Technical issues have not been identified
Political	0	Political issues have not been identified
Legal	0	No legal issues have been identified
Fiscal	0	The exact cost has not yet been identified
Environmental	0	No adverse environmental impact
Social	1	
Administrative	0	No known administrative issues
Multi-Hazard	1	
Timeline	1	
Agency Champion	1	
Other Community Objectives	1	
<b>Total</b>	7	
<b>Priority (High/Med/Low)</b>	Medium	



Action Worksheet			
<b>Project Name:</b>	North Governor Haines Street Drainage		
<b>Project Number:</b>	2021-Hamburg-021		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Flood, Severe Weather		
<b>Description of the Problem:</b>	North Governor Haines Street experiences drainage issues.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	The Borough will conduct a feasibility study for North Governor Haines Street drainage issues. If cost-effective measures are identified, the Borough will pursue grant funding and implement the selected actions.		
<b>Is this project related to a Critical Facility or Lifeline?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
<b>Level of Protection:</b>	TBD by feasibility study	<b>Estimated Benefits (losses avoided):</b>	Reduction in flood risk
<b>Useful Life:</b>	TBD by feasibility study	<b>Goals Met:</b>	2
<b>Estimated Cost:</b>	TBD by feasibility study	<b>Mitigation Action Type:</b>	Local Plans and Regulations, Structure and Infrastructure Projects
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Within 5 years
<b>Estimated Time Required for Project Implementation:</b>	5 years	<b>Potential Funding Sources:</b>	HMGP, BRIC, municipal budget
<b>Responsible Organization:</b>	Engineer, DPW	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Hazard mitigation planning, stormwater planning
Three Alternatives Considered (including No Action)			
<b>Alternatives:</b>	<b>Action</b>	<b>Estimated Cost</b>	<b>Evaluation</b>
	No Action	\$0	Current problem continues
	Elevate roadways	\$500,000	Costly and may not solve problem
	Relocate roadways	N/A	Not possible
Progress Report (for plan maintenance)			
<b>Date of Status Report:</b>			
<b>Report of Progress:</b>			
<b>Update Evaluation of the Problem and/or Solution:</b>			



Action Worksheet		
<b>Project Name:</b>	North Governor Haines Street Drainage	
<b>Project Number:</b>	2021-Hamburg-021	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	Reduction in flooding risk
Cost-Effectiveness	0	
Technical	1	Technically feasible project
Political	1	
Legal	1	The Borough has the legal authority to conduct the project.
Fiscal	0	Project will require grant funding.
Environmental	1	
Social	0	Project would reduce flooding impacts.
Administrative	1	
Multi-Hazard	1	Flood, Severe Weather
Timeline	0	
Agency Champion	1	Engineer, DPW
Other Community Objectives	1	
<b>Total</b>	9	
<b>Priority (High/Med/Low)</b>	High	