



## 9.10 BOROUGH OF HAMBURG

This section presents the jurisdictional annex for the Borough of Hamburg.

### 9.10.1 HAZARD MITIGATION PLAN POINT OF CONTACT

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

Primary Point of Contact	Alternate Point of Contact
Keith Sukennikoff, OEM Coordinator 16 Wallkill Avenue, Hamburg, NJ 07419 Phone: (973) 670-0105 Email: <a href="mailto:Hamburg_oem2@hamburgnj.org">Hamburg_oem2@hamburgnj.org</a>	Michael Schneider, DPW/Road Supervisor 16 Wallkill Avenue, Hamburg, NJ 07419 Phone: (973) 600-5213 Email: <a href="mailto:Road_dept@hamburgnj.org">Road_dept@hamburgnj.org</a>

### 9.10.2 MUNICIPAL 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. According to the U.S. Census, the 2010 population for the Borough of Hamburg was 3,277. A tributary of the Wallkill River flows through the northern section of the Borough and along the Wallkill 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.

#### Growth/Development Trends

The following table summarizes recent residential/commercial development since 2010 to present and any known or anticipated major residential/commercial development and major infrastructure development that has been identified in the next five years within the municipality. Refer to the maps later in this annex which illustrate the hazard areas along with the location of potential new development.

**Table 9.10-1. Growth and Development**

Property or Development Name	Type (e.g. Res., Comm.)	# of Units/Structures	Location (address and/or Block & Lot)	Known Hazard Zone(s)	Description/Status of Development
<b>Recent Development from 2010 to present</b>					
Fairways at Wallkill	Res.	68	G/B Castle Road Block 11 Lot 30 and Block 11.01 Lot 1	Flood: 1% Chance; Carbonate Hazard	On going
<b>Known or Anticipated Development in the Next Five (5) Years</b>					
None identified at this time.					

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

### 9.10.3 NATURAL HAZARD EVENT HISTORY SPECIFIC TO THE MUNICIPALITY

Sussex County has a history of natural and non-natural hazard events as detailed in Volume I, Section 5.0 of this plan. A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the county and its municipalities. For the purpose of this plan update, events that have occurred in the county from 2008 to present were summarized to indicate the range and impact of hazard events in the community. Information regarding specific damages is included, if available, based on reference material





or local sources. This information is presented in the table below. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.

**Table 9.10-2. Hazard Event History**

Date(s) of Event	Event Type	FEMA Declaration # (If Applicable)	County Designated?	Summary of Damages/Losses
August 26-September 5, 2011	Hurricane Irene	DR-4021	Yes	Hurricane Irene caused fallen debris and power outages in the Borough. The Borough used generators to power the Borough Hall, Police Department, water system and sewer system. The Borough also used contractors to provide sewage pumping during the outage. Roads were closed in the Borough due to flooding and debris. A water main under Route 23 was undermined by flooding and caused the pipes to separate. Damages to the Borough were over \$161,000.
October 26-November 8, 2012	Hurricane Sandy	DR-4086	Yes	Hurricane Sandy caused debris to fall on property and roadways throughout the Borough. There was also widespread power outages. The Borough provided backup power to essential facilities, barricaded hazardous streets, and provided traffic control. Damages and costs to the Borough were over \$53,000.

**9.10.4 HAZARD VULNERABILITIES AND RANKING**

The hazard profiles in Section 5.0 of this plan have detailed information regarding each plan participant’s vulnerability to the identified hazards. The risk ranking methodology is presented in Section 5.3. However, each municipality had the opportunity to adjust the final ranking based on municipal feedback. The following summarizes the hazard vulnerabilities and their ranking in the Borough of Hamburg. For additional vulnerability information relevant to this jurisdiction, refer to Section 5.0.

**Hazard Risk/Vulnerability Risk Ranking**

The table below summarizes the hazard risk/vulnerability rankings of potential hazards for the Borough of Hamburg.

**Table 9.10-1. Hazard Risk/Vulnerability Risk Ranking**

Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard <sup>a, c</sup>	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking <sup>b</sup>
Dam Failure	Damage estimate not available	Occasional	24	Medium
Drought	Damage estimate not available	Frequent	30	Medium
Earthquake	100-Year GBS: \$0 500-Year GBS: \$399,167 2,500-Year GBS: \$6,271,068	Occasional	28	Medium
Flood	1% Annual Chance: \$1,549,875	Frequent	18	Medium
Geologic	GBS Exposed to Carbonate Rock Areas: \$625,285,229	Occasional	36	Medium*
Hurricane	100-year MRP: \$169,219	Frequent	48	High





Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard <sup>a, c</sup>	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking <sup>b</sup>
	500-year MRP: \$908,528 Annualized: \$8,445			
Nor'Easter	Damage estimate not available	Frequent	48	High
Severe Weather	100-Year MRP: \$169,219 500-year MRP: \$908,528 Annualized: \$8,445	Frequent	48	High
Severe Winter Weather	1% GBS: \$4,787,774 5% GBS: \$23,938,870	Frequent	51	High
Wildfire	Estimated Value in the Extreme, Very High, and High Hazard Areas: \$32,280,095	Frequent	24	Medium
Hazardous Materials	Damage estimate not available	Frequent	36	High

Notes:

\* The hazard ranking was changed for this hazard based on input from the municipality, population exposed, and/or event history.

GBS = General building stock; MRP = Mean return period.

- a. The general building stock valuation is based on the custom inventory generated for the municipality and based on improved value.
- b. High = Total hazard priority risk ranking score of 31 and above  
Medium = Total hazard priority risk ranking of 15-30+  
Low = Total hazard risk ranking below 15
- c. Loss estimates for the severe storm and severe winter storm hazards are structural values only and do not include the estimated value of contents. Loss estimates for the flood and earthquake hazards represent both structure and contents. Potential flood loss estimates were generated using Hazus-MH 3.0 and the 2011 FEMA DFIRM for the 1-percent annual chance event. For the geologic and wildfire hazards, the improved value and estimated contents of buildings located within the identified hazard zones is provided.

**National Flood Insurance Program (NFIP) Summary**

The following table summarizes the NFIP statistics for the Borough of Hamburg.

**Table 9.10-4. NFIP Summary**

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 1% Flood Boundary (3)
Borough of Hamburg	4	0	\$0	0	0	0

Source: FEMA, 2014

Note (1) Policies, claims, repetitive loss and severe repetitive loss statistics provided by FEMA and are current as of November 31, 2014 and are summarized by Community Name. Please note the total number of repetitive loss properties excludes the severe repetitive loss properties. The number of claims represents claims closed by 11/31/2014.

Note (2) Total building and content losses from the claims file provided by FEMA Region 2.

Note (3) The policies inside and outside of the flood zones is based on the latitude and longitude provided by FEMA Region 2 in the policy file.

Note (4) FEMA noted that where there is more than one entry for a property, there may be more than one policy in force or more than one GIS possibility.

**Critical Facilities**

There are no critical facilities located in the FEMA 1% or 0.2% annual chance flood boundary.





**Other Vulnerabilities Identified by Municipality**

The hazard profiles in Section 5.0 have detailed information regarding each plan participant’s vulnerability to the identified hazards. Further, mitigation projects have been identified that may more specifically detail vulnerabilities in the community. There are no additional vulnerabilities identified at this time.

**9.10.5 CAPABILITY ASSESSMENT**

This section identifies the following capabilities of the local jurisdiction:

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Education/Outreach and Community classification
- Self-Assessment of Capability
- National Flood Insurance Program
- Integration of Mitigation Planning into Existing and Future Planning Mechanisms

**Planning and Regulatory Capability**

The table below summarizes the regulatory tools that are available to the Borough of Hamburg.

**Table 9.10-5. Planning and Regulatory Tools**

Tool/Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept./Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
<b>Planning Capability</b>				
Master Plan	Yes	Local	LUB	1997; re-examination report November 2006
Capital Improvements Plan	No			
Floodplain Management/Basin Plan	No			
Stormwater Management Plan	Yes – 4/20/05	Local	MC	Chapter 182
Open Space Plan	Yes – 6/24/03	Local	MC	Chapter 215
Stream Corridor Management Plan	No			
Watershed Management or Protection Plan	No			
Economic Development Plan	No			
Comprehensive Emergency Management Plan	No			
Emergency Response Plan	Yes – 2010	Local	OEM	
Post-Disaster Recovery Plan	No			
Transportation Plan	No			
Strategic Recovery Planning Report	No			
Other Plans:	No			
<b>Regulatory Capability</b>				
Building Code	Yes	State & Local		State Uniform Construction Code Act (N.J.S. 52:27D-119 et seq)
Zoning Ordinance	Yes	Local	Zoning	Chapter 215



**Table 9.10-5. Planning and Regulatory Tools**

Tool/Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept./Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Subdivision Ordinance	Yes	Local	LUB	Chapter 186
NFIP Flood Damage Prevention Ordinance	Yes	Federal, State and Local	Construction Official	Chapter 215-20
NFIP: Cumulative Substantial Damages	Yes	Local	Construction Official	Chapter 215-20
NFIP: Freeboard	Yes	State & Local	Construction Official	NJDEP
Growth Management Ordinances	No			
Site Plan Review Requirements	Yes	Local	LUB	Chapter 171
Stormwater Management Ordinance	Yes	Local	LUB	Chapter 182
Municipal Separate Storm Sewer System (MS4)	Yes	Local	DPW	Chapter 182
Natural Hazard Ordinance	No			
Post-Disaster Recovery Ordinance	No			
Real Estate Disclosure Requirement	Yes	State	Division of Consumer Affairs	N.J.A.C. 13-:45A-29.1
Other [Special Purpose Ordinances (i.e., sensitive areas, steep slope)]	No			

**Administrative and Technical Capability**

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

**Table 9.10-6. Administrative and Technical Capabilities**

Resources	Is this in place? (Yes or No)	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	
Maintenance Programs to Reduce Risk	No	
Mutual Aid Agreements	Yes	Mayor and Council
<b>Technical/Staffing Capability</b>		
Planner(s) or Engineer(s) with knowledge of land development and land management practices	Yes	Mayor and Council
Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Yes	Mayor and Council
Planners or engineers with an understanding of natural hazards	Yes	Mayor and Council
NFIP Floodplain Administrator	Yes	Construction Official
Surveyor(s)	Yes	Mayor and Council



**Table 9.10-6. Administrative and Technical Capabilities**

Resources	Is this in place? (Yes or No)	Department/Agency/Position
Personnel skilled or trained in GIS and/or Hazus-MH applications	Yes	Mayor and Council
Scientist familiar with natural hazards	Yes	Mayor and Council
Emergency Manager	Yes	Mayor and Council
Grant Writer(s)	No	
Staff with expertise or training in benefit/cost analysis	No	
Professionals trained in conducting damage assessments	No	

**Fiscal Capability**

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

**Table 9.10-7. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use (Yes/No/Don't Know)
Community Development Block Grants (CDBG, CDBG-DR)	Yes
Capital Improvements Project Funding	Yes
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas, or electric service	Yes
Impact Fees for homebuyers or developers of new development/homes	Don't Know
Stormwater Utility Fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	Don't Know
Withhold public expenditures in hazard-prone areas	Don't Know
Other Federal or State Funding Programs	Yes
Open Space Acquisition Funding Programs	Yes
Other	Don't Know

**Education/Outreach and Community Classifications**

The table below summarizes education/outreach programs the community participates in and the classifications for community program available to the Borough of Hamburg.

**Table 9.10-8. Education/Outreach and Community Classifications**

Program	Do you have/participate in this? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No		
Building Code Effectiveness Grading Schedule (BCEGS)	Yes		
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes		
Storm Ready	No		
Firewise	No		
Disaster/Safety Programs in/for Schools	No		



**Table 9.10-8. Education/Outreach and Community Classifications**

Program	Do you have/participate in this? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Organizations with Mitigation Focus (advocacy group, non-government)	No		
Public Education Program/Outreach (through website, social media)	Yes		
Public-Private Partnerships	No		

N/A = Not applicable; NP = Not participating

The classifications listed above relate to the community’s ability to provide effective services to lessen its vulnerability to the hazards identified. These classifications can be viewed as a gauge of the community’s capabilities in all phases of emergency management (preparedness, response, recovery, and mitigation) and are used as an underwriting parameter for determining the costs of various forms of insurance. The Community Rating System (CRS) class applies to flood insurance while the Building Code Effectiveness Grading Schedule (BCEGS) and Public Protection classifications apply to standard property insurance. CRS classifications range on a scale of 1 to 10 with class 1 being the best possible classification, and class 10 representing no classification benefit. Firewise classifications include a higher classification when the subject property is located beyond 1,000 feet of a creditable fire hydrant and is within five road miles of a recognized fire station.

Criteria for classification credits are outlined in the following documents:

- The Community Rating System Coordinators Manual
- The Building Code Effectiveness Grading Schedule
- The ISO Mitigation online ISO’s Public Protection website at <http://www.isomitigation.com/ppc/0000/ppc0001.html>
- The National Weather Service Storm Ready website at <http://www.weather.gov/stormready/howto.htm>
- The National Firewise Communities website at <http://firewise.org/>

**Self-Assessment of Capability**

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

**Table 9.10-9. Self-Assessment of Capability**

Area	Degree of Hazard Mitigation Capability		
	Limited (If limited, what are your obstacles?)	Moderate	High
Planning and Regulatory Capability		X	
Administrative and Technical Capability		X	
Fiscal Capability	X – limited staff		
Community Political Capability	X – limited staff		
Community Resiliency Capability	X – limited staff		
Capability to Integrate Mitigation into Municipal Processes and Activities	X – limited staff		





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## National Flood Insurance Program

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### NFIP Floodplain Administrator (FPA)

John Rushke, Borough Engineer

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### Flood Vulnerability Summary

The Borough does not maintain lists/inventories of properties damaged by flooding and there were no properties damaged during the most recent flooding events in the Borough. The FPA does make substantial damage estimates; however, none were declared for Irene, Lee or Sandy.

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### Resources

The FPA is the sole person assuming the responsibilities of floodplain administration in the Borough of Hamburg. The FPA provides permit review, inspections, damage assessments, record keeping, GIS and education and outreach as NFIP administration services to the Borough. The FPA feels adequately supported and trained to fulfill their responsibilities. The FPA would consider attending continuing education and/or certification training on floodplain management if offered.

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### Compliance History

The Borough is currently in good standing with the NFIP. The date of the most recent compliance audit is unknown.

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### Regulatory

The Borough's floodplain management regulations/ordinances meet the minimum requirement of FEMA and the State. There are other local ordinances, plans and programs in the Borough that support floodplain management. The Borough has not considered joining CRS.

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### Community Rating System

The Borough of Hamburg does not participate in the Community Rating System (CRS) program.

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### Integration of Hazard Mitigation into Existing and Future Planning Mechanisms

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

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### Planning

#### Land Use Planning:

The Borough has a Land Use Board which reviews all applications for development and consider natural hazard risk areas in their review.

#### Highlands:

Hamburg Borough is located in the New Jersey Highlands Region and is part of the Highlands Area. As such, the Borough is one of 88 municipalities protected by and subject to the provisions of the Highlands Water



Protection and Planning Act that protects, enhances and restores Highland's natural resources. The Highlands Act requires that future land use in the Highlands Region be guided by the Regional Master Plan's Land Use Capability Map (LUCM) Series which includes tools to identify and protect the natural, scenic and other resources of the region. In supporting and complying with the Highlands Act, the Borough enacted amendments and updates to local zoning and development ordinances that ensure the protection of important resources and areas. The Highland Act creates three primary zones: a Protection Zone, a Conservation Zone and an Existing community Zone. Protection Zones are areas with the highest quality resources with extreme limitations on allowable development while Conservation Zones have significant agricultural lands and associated woodlands and environmental features with allowable development consisting primarily of agricultural uses. Existing Community Zones consist of areas of concentrated development with limited environmental constraints. These zones are overlaid with existing local zoning maps to identify and address issues of public interest including watershed management, open space preservation, historic preservation, flood protection among others.

The Borough identified a new mitigation initiative to utilize the HMP when updating the Comprehensive Master Plan. Refer to Table 9.10-11 for further details.

### **Regulatory and Enforcement (Ordinances)**

The Borough has multiple chapters pertaining to the mitigation of hazards. These ordinances include the Flood Damage Prevention Chapter, Stormwater Control Chapter, and an Environmental Impact Statement requirement and an Environmentally Sensitive Areas section included in the Land Use Chapter. The Borough also has a chapter specific to the hazards associated with environmentally sensitive areas.

#### **Chapter 215-20: Floodplains or Flood Hazards** <http://www.ecode360.com/10217544>

The purpose of this chapter to promote the public health, safety, and general welfare, and to minimize public and private losses due to flood conditions in specific areas by provisions designed:

- A. To protect human life and health;
- B. To minimize expenditure of public money for costly flood control projects;
- C. To minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public;
- D. To minimize prolonged business interruptions;
- E. To 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. To help maintain a stable tax base by providing for the alternate use and development of areas of special flood hazard so as to minimize future flood blight areas;
- G. To ensure that potential buyers are notified that property is in an area of special flood hazard; and
- H. To ensure that those who occupy the areas of special flood hazard assume responsibility for their actions.

#### **Chapter 181: Stormwater Management** <http://www.ecode360.com/10216322>

The purposed of the Stormwater Control chapter is to implement best management practices for stormwater management designed to promote the public health, safety and general welfare the citizens.

#### **Chapter 171-8: Environmental Impact Statement**

<http://www.ecode360.com/10216103?highlight=environmentally,environmental#10216103>

The purpose of this section of the Chapter is to allow the Borough to assess the impact of a proposed development upon the natural environment, particularly with respect to potable water, pollution of all kinds, flooding and waste disposal.



**Highlands:** In addition, the Highlands Water Protection and Planning Act provides additional regulatory control over development within the Borough. While Major Highlands Development projects, as defined by the Highlands Act, still require local approvals, they must first receive a Highlands Resource Applicability Determination and be evaluated for consistency with the provisions of the Highlands Act. Major Highlands Development projects include a variety of projects such as any non-residential development, any residential development that disturbs one or more acres of land, any development that disturbs ¼ acres of more of forest among others. This process identifies any potential Highlands Resources on the site and if found requires adherence to relevant development standards and restrictions.

### Operational and Administration

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The Borough has established a Joint Land Use Board that is responsible for the review of development applications. The Borough has a Zoning officer as well as a planning and zoning board secretary.

### Funding

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**Operating Budget:** The Borough’s operating budget contains minimal provisions for expected repairs like snow removal and infrastructure repair after a storm or natural disaster.

**Grants:** The Borough has received funding from the NJDOT, Sustainable Jersey, The Garden State Preservation Trust Fund, and Clean Communities grant programs for the completion of mitigation and emergency response related projects including roadway and drainage improvements.

### Education and Outreach

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The Borough’s website’s home page posts information regarding upcoming community events and important municipal decisions. Additionally, the Borough has a public outreach program that informs its citizens on hazards that may occur in the community.

## 9.10.6 MITIGATION STRATEGY AND PRIORITIZATION

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

### Past Mitigation Initiative Status

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The following table indicates progress on the community’s mitigation strategy identified in the 2011 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 may also be found under ‘Capability Assessment’ presented previously in this annex.



Table 9.10-10. Past Mitigation Initiative Status

<u>Initiative Number</u>	<u>2011 Mitigation Action</u>	<u>Responsible Party</u>	<u>Status</u> (In progress, No progress, Complete)	<u>Describe Status</u> 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	<u>Next Step</u> (Include in 2016 HMP? or Discontinue)	<u>Describe Next Step</u> 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
Hamburg Borough 1	Backup generator for shelter at Hamburg Elementary School located on Linwood Avenue.	OEM Coordinator	No Progress	This project is 0% completed because funding has not been secured.	Include in 2016 HMP	The Hamburg School is utilized as a shelter; therefore, it requires a backup generator. This project will be carried over into the 2016 HMP.
Hamburg Borough 2	Retrofit roof to meet current snow load standards on Hamburg Elementary School located on Linwood Avenue.	School Administrator	In Progress	This project is 50% completed; however, funding has not been secured to complete.	Include in 2016 HMP	The Borough is planning on trying to secure funding to complete this project in the next budget. This project will be carried over into the 2016 HMP.
Hamburg Borough 3	Flood proofing of the Hamburg Fire Company building.	Municipal Fire Chief	No Progress	0% complete	Discontinue	The building identified in this action has not shown sufficient flooding to warrant flood proofing; therefore, this action will be removed from this plan update.
Hamburg Borough 4	Conduct all-hazards public education and outreach program for hazard mitigation and preparedness.	OEM Coordinator, in coordination with SCDEM	No Progress	0% complete	Include in 2016 HMP	The Borough will try to obtain funding to facilitate programs. This action will be carried over into the 2016 HMP.



### **Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy**

The Borough has not identified any additional mitigation projects/activities that have been completed since approval of the 2011 HMP.

### **Proposed Hazard Mitigation Initiatives for the Plan Update**

The Borough participated in a mitigation action workshop in April 2015 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). In May 2015, the Borough participated in a second workshop led by FEMA Region 2 and NJOEM and was provided the results to the risk assessment to further assist with the identification of mitigation actions.

Table 9.10-11 summarizes the comprehensive-range of specific mitigation initiatives the Borough would like to pursue in the future to reduce the effects of hazards. Some of these initiatives may be previous actions carried forward for this plan update. These initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table below to further demonstrate the wide-range of activities and mitigation measures selected.

As discussed in Section 6, 14 evaluation/prioritization criteria are used to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing your actions as 'High', 'Medium', or 'Low.' Table 9.10-12 provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.



Table 9.10-11. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
Hamburg-1 (old #1)	Ensure continuity of operations in the Borough. Identified at this time: Backup generator for shelter at Hamburg Elementary School located on Linwood Avenue.	Existing	All	1, 2, 6	OEM Coordinator	High	High	HMGP with local cost share	Short Term / DOF	High	SIP	PP
Hamburg-2 (old #2)	Retrofit roof to meet current snow load standards on Hamburg Elementary School located on Linwood Avenue.	Existing	Severe Winter Weather	1, 2	School Administrator, Municipal Engineer	High	High	FEMA Mitigation Assistance	Short Term / DOF	High	SIP	PP
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.	N/A	All	All	OEM Coordinator, in coordination with SCDEM	High	Low	Municipal Budget	Ongoing	High	EAP	PI
Hamburg-4 (new)	Multi-purpose emergency vehicle to support highways	N/A	All	1, 2, 3, 6	Borough OEM	High	Medium	FEMA Mitigation Assistance	Short Term / DOF	High	SIP, NSP	PP, NR
Hamburg-5 (new)	Purchase Bobcat Skid-Steer to use during debris cleanup operations and post-hazard events.	N/A	All	2, 6	Borough DPW	High	Medium	FEMA Mitigation Assistance	Short Term / DOF	High	SIP, NSP	PP, NR
Hamburg-6 (new)	Create and maintain a plan for adequate road and debris clearing capabilities within the Borough.	N/A	All	All	Borough DPW	High	Low	Municipal Budget	Ongoing	Medium	LPR, NSP	PR, NR
Hamburg-7 (new)	To ensure continuity of operations, purchase portable generator for critical facilities	New and Existing	All	1, 2, 6	Municipal Engineer, OEM Coordinator	High	Medium	HMGP with local cost share	Short Term / DOF	High	SIP	PP
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	Both	All	All	Planning	High	Low	Municipal Budget	Ongoing	High	LPR	PR





Table 9.10-11. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
	in the HMP. Further, the findings and recommendation of the HMP will be considered during any future site plan review processes.											
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.	N/A	All	All	Borough Administration	High	Low	Municipal Budget	Ongoing	High	LPR	PR
Hamburg-10 (new)	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.	New and Existing	Wildfire	All	OEM Coordinator	High	Low	Municipal Budget	Ongoing	High	LPR, EAP	PR, PI
Hamburg-11 (new)	The Borough will work with local school districts and assist with community service projects regarding hazards and mitigation.	N/A	All	All	OEM Coordinator	High	Low	Municipal Budget	Ongoing	High	EAP	PI
Hamburg-12 (new)	Catch basin and general stormwater facility maintenance	Existing	Flood, Severe Weather, Severe Winter Weather	2, 4	Borough DPW and Engineer	Loss of Function	Medium	Municipal Budget	Short Term & Ongoing	High	SIP	PP
Hamburg-13 (new)	Perform study to analyze where sanitary sewer reinforcement is needed and address where necessary.	New and Existing	Severe Weather, Severe Winter Weather, Earthquake	2	Borough Engineer	Loss of function, road closings / detours	Medium	HMGP with local cost share; municipal budget	Short Term	Medium	SIP	PP
Hamburg-14 (new)	Tree removal and maintenance in the Borough	Existing	Severe Weather, Severe Winter Weather	2, 4	Borough DPW	Loss of function, road closings / detours	Medium	Municipal Budget	Short Term & Ongoing	High	SIP	PP

Notes:





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

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

Acronyms and Abbreviations:

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
NJDEP	New Jersey Department of Environmental Protection
NJOEM	New Jersey Office of Emergency Management
OEM	Office of Emergency Management

Potential FEMA HMA Funding Sources:

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

Timeline:

Short	1 to 5 years
Long Term	5 years or greater
OG	On-going program
DOF	Depending on funding

Costs:

Where actual project costs have been reasonably estimated:

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

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

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

Benefits:

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

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

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

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

Mitigation Category:

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

CRS Category:

- Preventative Measures (PR)-Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.
- Property Protection (PP)-These actions include public activities to reduce hazard losses or actions that involve (1) modification of existing buildings or structures to protect them from a hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.
- Public Information (PI)-Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. Such actions include outreach projects, real estate disclosure, hazard information centers, and educational programs for school-age children and adults.





- *Natural Resource Protection (NR)*-Actions that minimize hazard loss and also preserve or restore the functions of natural systems. These actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.
- *Structural Flood Control Projects (SP)*-Actions that involve the construction of structures to reduce the impact of a hazard. Such structures include dams, setback levees, floodwalls, retaining walls, and safe rooms.
- *Emergency Services (ES)*-Actions that protect people and property during and immediately following a disaster or hazard event. Services include warning systems, emergency response services, and the protection of essential facilities



Table 9.10-12. Summary of Prioritization of Actions

Mitigation Action / Project Number	Mitigation Action / Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
Hamburg-1 (old #1)	Backup generator for shelter at Hamburg Elementary School located on Linwood Avenue.	1	1	1	1	1	1	0	0	1	1	1	1	1	0	11	High
Hamburg-2 (old #2)	Retrofit roof to meet current snow load standards on Hamburg Elementary School located on Linwood Avenue.	1	1	1	1	1	1	0	0	1	1	1	1	1	0	11	High
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.	1	1	1	1	1	1	1	0	1	1	1	1	0	0	11	High
Hamburg-4 (new)	Multi-purpose emergency vehicle to support highways	1	1	1	1	1	1	0	0	1	1	1	1	1	0	11	High
Hamburg-5 (new)	Purchase Bobcat Skid-Steer to use during debris cleanup operations and post-hazard events.	1	1	1	1	1	1	0	0	1	1	1	1	1	0	11	High
Hamburg-6 (new)	Create and maintain a plan for adequate road and debris clearing capabilities within the Borough.	1	1	1	1	1	1	0	0	1	1	1	1	1	0	11	Medium
Hamburg-7 (new)	Portable generator for critical facilities	1	1	1	1	1	1	0	1	1	1	1	1	1	0	12	High
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.	1	1	1	1	1	1	1	0	1	1	1	1	0	0	11	High
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.	1	1	1	1	1	1	1	0	1	1	1	1	0	0	11	High
Hamburg-10 (new)	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.	1	1	1	1	1	1	1	0	1	1	0	1	0	0	10	High
Hamburg-11 (new)	The Borough will work with local school districts and assist with community service projects regarding hazards and mitigation.	1	1	1	1	1	1	1	0	1	1	1	1	0	0	11	High
Hamburg-12 (new)	Catch basin and general stormwater facility maintenance	0	1	1	1	1	1	1	1	0	1	1	1	1	1	12	High
Hamburg-13 (new)	Perform study to analyze where sanitary sewer reinforcement is needed and address where necessary.	0	1	1	1	1	1	-1	1	1	1	1	1	1	1	11	Medium
Hamburg-14 (new)	Tree removal and maintenance in the Borough	0	1	1	1	1	1	1	-1	0	1	1	1	1	1	10	High

Note: Refer to Section 6 which contains the guidance on conducting the prioritization of mitigation actions.





### **9.10.7 FUTURE NEEDS TO BETTER UNDERSTAND RISK/VULNERABILITY**

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None at this time.

### **9.10.8 HAZARD AREA EXTENT AND LOCATION**

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Hazard area extent and location maps have been 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 considered to be adequate for planning purposes. Maps have only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which the Borough of Hamburg has significant exposure. These maps are illustrated in the hazard profiles within Section 5.4, Volume I of this Plan.

### **9.10.9 ADDITIONAL COMMENTS**

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None at this time.



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

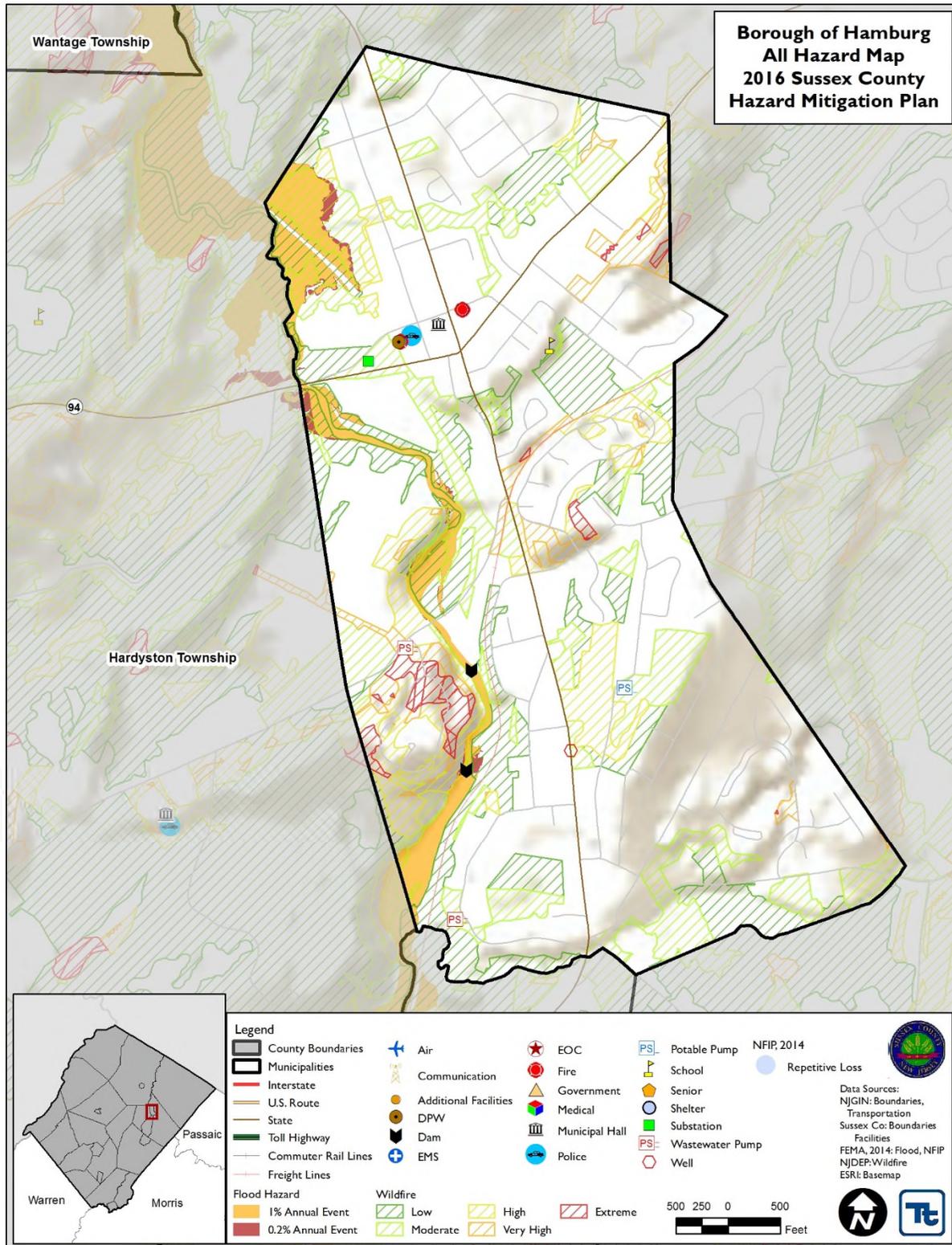
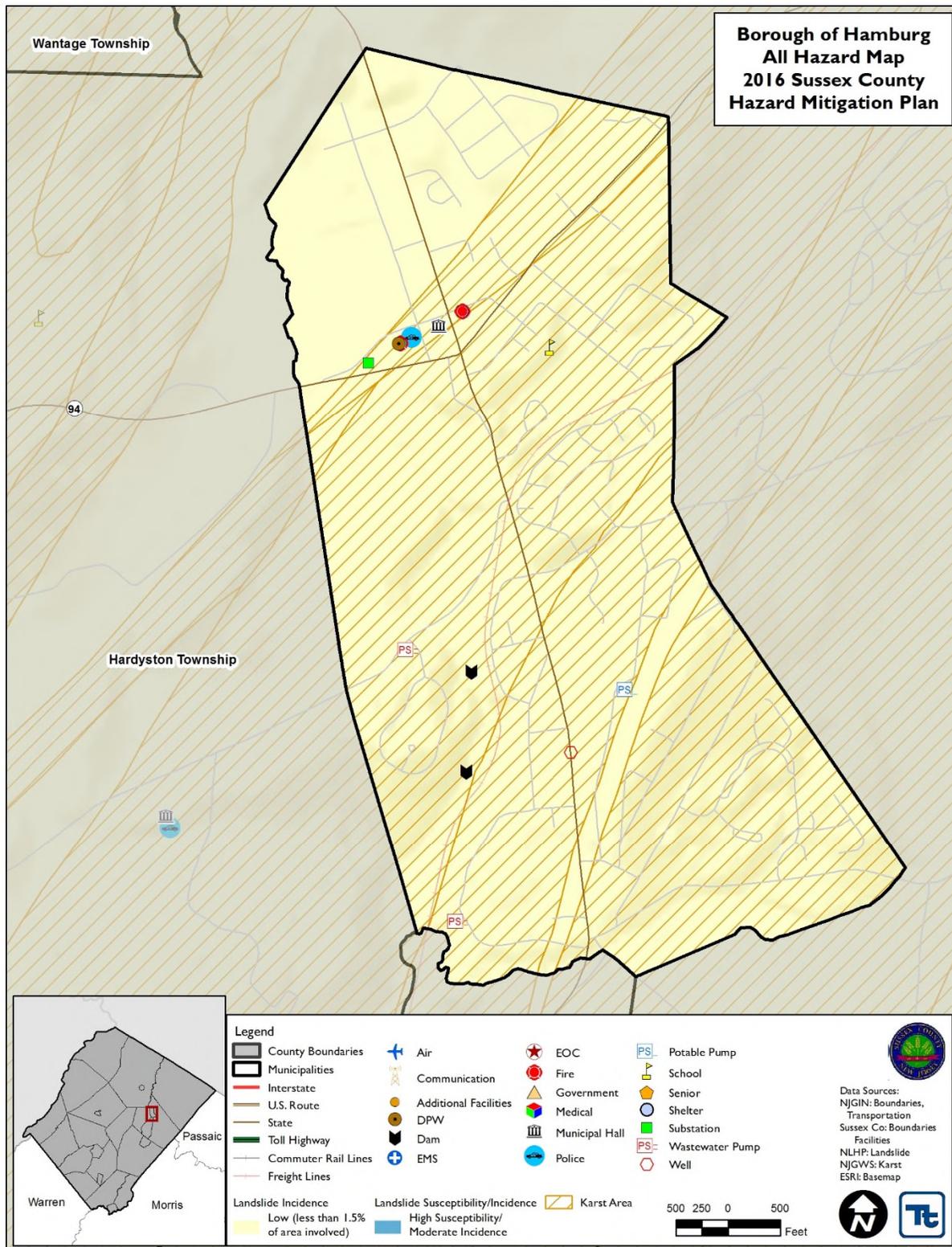




Figure 9.10-2. Borough of Hamburg Hazard Area Extent and Location Map 2





**Action Number:** Hamburg-1  
**Mitigation Action/Initiative:** Obtain back up power to ensure continuity of operations

Assessing the Risk	
<b>Hazard(s) addressed:</b>	Power loss from high winds/storm events
<b>Specific problem being mitigated:</b>	Hamburg School does not have backup power and needs to be in operation during a natural hazard event; building serves as a shelter.
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	1. Purchase a backup generator
	2. Co-Gen facility or build a new shelter
	3. Do nothing
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	Purchase a generator for the School to ensure continuity of operations during and post-hazard events.
<b>Action/Project Category</b>	SIP
<b>Goals Met</b>	1, 2, 6
<b>Applies to existing and or new development, or not applicable</b>	Existing building
<b>Benefits (losses avoided)</b>	High
<b>Estimated Cost</b>	High (estimated \$750,000.)
<b>Priority</b>	High
Plan for Implementation	
<b>Responsible Organization</b>	Municipal Engineer
<b>Local Planning Mechanism</b>	Capital Plan and Mitigation Plan
<b>Potential Funding Sources</b>	FEMA Mitigation Assistance
<b>Timeline for Completion</b>	Short (5 years but depends on funding) DOF
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: Progress on Action/Project: DOF



**Action Number:** Hamburg-1  
**Mitigation Action/Initiative:** Purchase generator to ensure continuity of operations

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	School serves as a shelter
Property Protection	1	Protects pipes from freezing
Cost-Effectiveness	1	Prevents structural damage
Technical	1	Engineering
Political	1	Mayor and Council
Legal	1	
Fiscal	0	Grant funding is necessary
Environmental	0	
Social	1	School services vulnerable populations
Administrative	1	
Multi-Hazard	1	Yes it is a shelter
Timeline	1	Can implement in 5 years but depends of funding availability
Agency Champion	1	
Other Community Objectives		
<b>Total</b>	11	
<b>Priority (High/Med/Low)</b>	High	



Action Number: Hamburg-2  
 Mitigation Action/Initiative: Retrofit Hamburg School Roof

Assessing the Risk	
<b>Hazard(s) addressed:</b>	Roof Damage incurred by severe winter weather
<b>Specific problem being mitigated:</b>	Hamburg School Roof is only 50% replaced
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	1. Complete the replacement
	2. Repair partial roof
	3. Do nothing
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	Replace the roof to ensure safety
<b>Action/Project Category</b>	SIP
<b>Goals Met</b>	1, 2
<b>Applies to existing and or new development, or not applicable</b>	Existing Building
<b>Benefits (losses avoided)</b>	High – only school system
<b>Estimated Cost</b>	High – (estimated cost 150,000.)
<b>Priority</b>	High
Plan for Implementation	
<b>Responsible Organization</b>	Municipal Engineer
<b>Local Planning Mechanism</b>	Mitigation Plan
<b>Potential Funding Sources</b>	FEMA Mitigation Assistance
<b>Timeline for Completion</b>	Short (5 years depending on funding)
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: Progress on Action/Project: DOF



**Action Number:** Hamburg-2  
**Mitigation Action/Initiative:** Retrofit Hamburg School Roof

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	School serves as a shelter
Property Protection	1	Protects the school
Cost-Effectiveness	1	Prevents structural damage
Technical	1	Engineering
Political	1	Mayor and Council
Legal	1	
Fiscal	0	Grant funding necessary
Environmental	0	
Social	1	School services valuable populations
Administrative	1	
Multi-Hazard	1	Shelter
Timeline	1	Can implement in 5 years depending on funding
Agency Champion	1	
Other Community Objectives		
<b>Total</b>	11	
<b>Priority (High/Med/Low)</b>	High	



**Action Number:** Hamburg-4  
**Mitigation Action/Initiative:** Multi-purpose emergency vehicle

Assessing the Risk	
<b>Hazard(s) addressed:</b>	Highway Hazard
<b>Specific problem being mitigated:</b>	Safety on two major highways running through borough
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	1. Purchase Vehicle
	2. Purchase Highway safety equipment
	3. Do nothing
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	Purchase vehicle to ensure safety is maintained on the highway during and post hazard events
<b>Action/Project Category</b>	SIP
<b>Goals Met</b>	1, 2, 3, 6
<b>Applies to existing and or new development, or not applicable</b>	Existing Highways and streets
<b>Benefits (losses avoided)</b>	High
<b>Estimated Cost</b>	Medium (estimated \$50,000.00)
<b>Priority</b>	High
Plan for Implementation	
<b>Responsible Organization</b>	Mayor and Council
<b>Local Planning Mechanism</b>	Mitigation Plan
<b>Potential Funding Sources</b>	FEMA Mitigation Assistance
<b>Timeline for Completion</b>	Short (5 years depending on funding)
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: Progress on Action/Project: DOF



**Action Number:** Hamburg-4  
**Mitigation Action/Initiative:** Multipurpose emergency vehicle

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
<b>Life Safety</b>	1	Serves as continuing flow of traffic through municipality
<b>Property Protection</b>	1	Protects from major motor vehicle accidents occurring
<b>Cost-Effectiveness</b>	1	Prevents major motor vehicle accidents from occurring
<b>Technical</b>	1	Engineering
<b>Political</b>	1	Mayor and Council
<b>Legal</b>	1	
<b>Fiscal</b>	0	Grant funding is necessary
<b>Environmental</b>	0	
<b>Social</b>	1	Valuable of keeping the highway open
<b>Administrative</b>	1	
<b>Multi-Hazard</b>	1	Used as a emergency service unit for OEM, police and fire
<b>Timeline</b>	1	5 years depending on funding
<b>Agency Champion</b>	1	
<b>Other Community Objectives</b>		
<b>Total</b>	11	
<b>Priority (High/Med/Low)</b>	High	



**Action Number:** Hamburg-5  
**Mitigation Action/Initiative:** Purchase Bobcat Skid Steer

Assessing the Risk	
<b>Hazard(s) addressed:</b>	Damage incurred from storm
<b>Specific problem being mitigated:</b>	Small Space Areas
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	1. Purchase Equipment
	2. Do nothing
	3. No other feasible options were identified
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	Purchase unit for town to ensure debris cleanup operations during and post hazard events
<b>Action/Project Category</b>	SIP, NSP
<b>Goals Met</b>	2, 6
<b>Applies to existing and or new development, or not applicable</b>	Existing infrastructure
<b>Benefits (losses avoided)</b>	High
<b>Estimated Cost</b>	Medium (estimated \$ 40,000.00)
<b>Priority</b>	High
Plan for Implementation	
<b>Responsible Organization</b>	Municipal Engineer
<b>Local Planning Mechanism</b>	Mitigation Plan
<b>Potential Funding Sources</b>	FEMA Mitigation Assistance
<b>Timeline for Completion</b>	Short (5 years but depends on funding)
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: Progress on Action/Project: DOF



**Action Number:** Hamburg-5  
**Mitigation Action/Initiative:** Purchase Bobcat Skid Steer

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Serves as continuous operations in municipality
Property Protection	1	
Cost-Effectiveness	1	Prevents structural damage
Technical	1	Engineer
Political	1	Mayor and Council
Legal	1	
Fiscal	0	Need Grant Funding
Environmental	0	
Social	1	Valuable in confined areas within the municipality
Administrative	1	
Multi-Hazard	1	Easier to use in confined areas within the municipality
Timeline	1	Short (5 years depending on funding)
Agency Champion	11	
Other Community Objectives		
<b>Total</b>	1	
<b>Priority (High/Med/Low)</b>	High	



**Action Number:** Hamburg-12  
**Mitigation Action/Initiative:** Catch basin and general stormwater facility maintenance

Assessing the Risk	
<b>Hazard(s) addressed:</b>	Flood, Severe Weather, Severe Winter Weather
<b>Specific problem being mitigated:</b>	Stormwater structures malfunctioning during large storm events due to improper maintenance or no maintenance
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	1. Catch basin and general stormwater facility maintenance
	2. Do nothing – current problem continues
	3. No other feasible options were identified
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	Debris removal and maintenance in and around catch basins and other stormwater facilities especially before and after large storm events. This will allow them to function properly. A lack of maintenance may clog the systems and propagate local flooding.
<b>Action/Project Category</b>	SIP
<b>Goals Met</b>	2, 4
<b>Applies to existing and or new development, or not applicable</b>	Existing
<b>Benefits (losses avoided)</b>	Loss of function
<b>Estimated Cost</b>	\$15,000 (Medium)
<b>Priority</b>	High
Plan for Implementation	
<b>Responsible Organization</b>	Borough DPW, Borough Engineer
<b>Local Planning Mechanism</b>	Emergency Management Planning
<b>Potential Funding Sources</b>	Hamburg Borough
<b>Timeline for Completion</b>	Short Term (1-year) and continuing in the future
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: Progress on Action/Project:



**Action Number:** Hamburg-12  
**Mitigation Action/Initiative:** Catch basin and general stormwater facility maintenance

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	No loss of life threat currently exists
Property Protection	1	Protection of existing stormwater structures from damage, protection from local flooding damage
Cost-Effectiveness	1	Cost of maintenance is minimal in comparison to the potential damages
Technical	1	Maintenance is feasible and undertaken by most municipalities
Political	1	Political and overall public support for the project implementation
Legal	1	Legally feasible
Fiscal	1	Can be carried out by Hamburg staff and volunteers
Environmental	1	No permitting required for maintenance
Social	0	Project will have positive impacts on populations throughout Hamburg
Administrative	1	Hamburg has the capabilities to implement and maintain the project
Multi-Hazard	1	Flood, Severe Weather, Severe Winter Weather
Timeline	1	Project goals I one year and continuously before and after large storm events
Agency Champion	1	Advocated for by the governing body
Other Community Objectives	1	Address local maintenance issues
<b>Total</b>	12	
<b>Priority (High/Med/Low)</b>	High	



**Action Number:** Hamburg-13  
**Mitigation Action/Initiative:** Sanitary Sewer Reinforcement

Assessing the Risk	
<b>Hazard(s) addressed:</b>	Severe Weather, Severe Winter Weather, Earthquake
<b>Specific problem being mitigated:</b>	Reduce the impact of hazards to the municipal sewer system
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	1. Sanitary Sewer Reinforcement
	2. Do nothing – current problem continues
	3. No other feasible options were identified
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	Perform a study to analyze where sanitary sewer reinforcement is needed due to the most imminent threats of failure or cracking during extreme weather conditions; address where practical
<b>Action/Project Category</b>	SIP
<b>Goals Met</b>	2
<b>Applies to existing and or new development, or not applicable</b>	New and Existing
<b>Benefits (losses avoided)</b>	Loss of function, road closings/detours
<b>Estimated Cost</b>	\$50,000 (Medium)
<b>Priority</b>	Medium
Plan for Implementation	
<b>Responsible Organization</b>	Borough Engineer
<b>Local Planning Mechanism</b>	Floodplain Management
<b>Potential Funding Sources</b>	HMGP with local cost share; Borough
<b>Timeline for Completion</b>	Short Term, 1-3 years
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: Progress on Action/Project:



**Action Number:** Hamburg-13  
**Mitigation Action/Initiative:** Sanitary Sewer Reinforcement

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
<b>Life Safety</b>	0	No loss of life threat currently exists
<b>Property Protection</b>	1	Will minimize damage to existing sanitary infrastructure
<b>Cost-Effectiveness</b>	1	The cost of the study is small in comparison to the potential damages and costs associated with such
<b>Technical</b>	1	Feasible
<b>Political</b>	1	Political and overall public support for the project implementation
<b>Legal</b>	1	Legally feasible
<b>Fiscal</b>	-1	New authorization or funding from another source is needed
<b>Environmental</b>	1	May require standard land use permits from NJDEP for certain areas, but generally no permits required
<b>Social</b>	1	Project will have positive impacts on populations throughout Hamburg
<b>Administrative</b>	1	Hamburg has the capabilities to implement and maintain the project
<b>Multi-Hazard</b>	1	Severe Weather, Severe Winter Weather, Earthquake
<b>Timeline</b>	1	Goal for study is one to three years; additional time depending on maintenance required
<b>Agency Champion</b>	1	Advocated for by the governing body
<b>Other Community Objectives</b>	1	Addresses capital improvements
<b>Total</b>	11	
<b>Priority (High/Med/Low)</b>	Medium	



**Action Number:** Hamburg-14  
**Mitigation Action/Initiative:** Tree removal and maintenance

Assessing the Risk	
<b>Hazard(s) addressed:</b>	Severe Weather, Severe Winter Weather, Hurricanes
<b>Specific problem being mitigated:</b>	Trees that down power lines during storm events
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	1. Tree removal and maintenance
	2. Do nothing – current problem continues
	3. No other feasible options were identified
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	Tree removal and maintenance in the vicinity of power lines in order to minimize power outages from downed trees/tree limbs during severe storm and severe winter storm events.
<b>Action/Project Category</b>	SIP
<b>Goals Met</b>	2, 4
<b>Applies to existing and or new development, or not applicable</b>	Existing
<b>Benefits (losses avoided)</b>	Loss of function, road closures/detours
<b>Estimated Cost</b>	\$30,000 (medium)
<b>Priority</b>	High
Plan for Implementation	
<b>Responsible Organization</b>	Borough DPW
<b>Local Planning Mechanism</b>	Emergency Management Planning
<b>Potential Funding Sources</b>	Hamburg Borough
<b>Timeline for Completion</b>	Short Term
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: Progress on Action/Project: DOF



**Action Number:** Hamburg-14  
**Mitigation Action/Initiative:** Tree removal and maintenance

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
<b>Life Safety</b>	0	No loss of life threat currently exists
<b>Property Protection</b>	1	Protection of existing power lines
<b>Cost-Effectiveness</b>	1	Cost of tree removal is minimal in comparison to the potential losses in power outages from both the point of view of repairing the lines and from the homeowners losses
<b>Technical</b>	1	Tree removal is very feasible
<b>Political</b>	1	Political and overall public support for the project implementation
<b>Legal</b>	1	Legally feasible
<b>Fiscal</b>	1	New authorization or funding from another source is needed
<b>Environmental</b>	-1	Removal of trees
<b>Social</b>	0	May get backlash due to the removal of healthy trees
<b>Administrative</b>	1	Hamburg has the capabilities to implement and maintain the project
<b>Multi-Hazard</b>	1	Severe Weather, Severe Winter Weather, Hurricanes
<b>Timeline</b>	1	Immediately and continuously
<b>Agency Champion</b>	1	Advocated for by the governing body
<b>Other Community Objectives</b>	1	Addresses capital improvements
<b>Total</b>	10	
<b>Priority (High/Med/Low)</b>	High	