



## 9.22 BOROUGH OF SUSSEX

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

### 9.22.1 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
Floyd Southard, OEM Coordinator 2 Main Street, Sussex, NJ 07461 Phone: (973) 534-7258 Email: <a href="mailto:fsouthard@embarqmail.com">fsouthard@embarqmail.com</a>	Mark Zsack, Borough Administrator 2 Main Street, Sussex, NJ 07461 Phone: (973) 903-4544 Email: <a href="mailto:sussexadmin@embarqmail.com">sussexadmin@embarqmail.com</a>

### 9.22.2 MUNICIPAL PROFILE

The Borough of Sussex is located in northern Sussex County and is fully surrounded by the Township of Wantage. It has a total area of 0.6 square miles. According to the U.S. Census, the 2010 population for the Borough of Sussex was 2,130. Clove Brook flows through the Borough.

#### Growth/Development Trends

The Borough of Sussex did not note any recent residential/commercial development since 2010 or any major residential or commercial development, or major infrastructure development planned for the next five years in the municipality.

### 9.22.3 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 9.22-1. 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	JCP&L substation flooded which resulted in a five-day borough-wide power outage. Additionally, the sewer pump station flooded.
October 26 – November 8, 2012	Hurricane Sandy	DR-4086	Yes	Sussex Firehouse roof was partially blown off.

### 9.22.4 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 Sussex. 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 Sussex.

**Table 9.22-2. 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	High*
Drought	Damage estimate not available	Frequent	30	Medium
Earthquake	100-Year GBS: \$0 500-Year GBS: \$209,104 2,500-Year GBS: \$3,151,032	Occasional	28	Medium
Flood	1% Annual Chance: \$7,476,643	Frequent	18	Medium
Geologic	GBS Exposed to Carbonate Rock Areas: \$0	Occasional	12	Low
Hurricane	100-year MRP: \$55,658 500-year MRP: \$554,374 Annualized: \$3,951	Frequent	48	High
Nor'Easter	Damage estimate not available	Frequent	48	High
Severe Weather	100-Year MRP: \$55,658 500-year MRP: \$554,374 Annualized: \$3,951	Frequent	48	High
Severe Winter Weather	1% GBS: \$2,596,515 5% GBS: \$12,982,573	Frequent	51	High
Wildfire	Estimated Value in the Extreme, Very High, and High Hazard Areas: \$1,034,252	Frequent	24	Medium
Hazardous Materials	Damage estimate not available	Frequent	36	High

Notes:

\* The hazard ranking was changed due to the location of high hazard dams in the municipality

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 Sussex.

**Table 9.22-3. 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 Sussex	8	5	\$80,363	0	0	3

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

The table below presents the number of critical facilities, by type, in the community located in the effective FEMA flood zones (1% and 0.2% annual chance boundaries).

**Table 9.22-4. Number of Critical Facilities in the DFIRM 1% and 0.2% Annual Chance Flood Boundaries**

Municipality	0.2% Annual Chance Substation
Sussex, Borough of	1*

Source: Sussex County; FEMA, 2011

\*Not owned by the Borough

### 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.

### 9.22.5 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
- Community Rating System
- 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 Sussex.

**Table 9.22-5. 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	Planner	9-21-2009
Capital Improvements Plan	Yes	Local	CFO	
Floodplain Management/Basin Plan	No			
Stormwater Management Plan	No			
Open Space Plan	No			
Stream Corridor Management Plan	No			
Watershed Management or Protection Plan	No			
Economic Development Plan	No			
Comprehensive Emergency Management Plan	No			
Emergency Response Plan	Yes	Local	OEM	
Post-Disaster Recovery Plan	No			
Transportation Plan	No			
Strategic Recovery Planning Report	No			
Other Plans:	Yes	Local	Borough Council	Route 23 Redevelopment Plan (11/26/13)
<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 Officer	Chapter 19
Subdivision Ordinance	Yes	Local	Land Use Board	Chapter 18
NFIP Flood Damage Prevention Ordinance	Yes	Federal/State/Local		Chapter 22 – Flood Hazard Areas
NFIP: Cumulative Substantial Damages	No			
NFIP: Freeboard	Yes	State/Local		
Growth Management Ordinances	No			
Site Plan Review Requirements	Yes	Local	Land Use Board	Chapter 21
Stormwater Management Ordinance	Yes	Local	Engineer	



**Table 9.22-5. 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.)
Municipal Separate Storm Sewer System (MS4)	Yes	Local	DPW	
Natural Hazard Ordinance	No			
Post-Disaster Recovery Ordinance	No			
Real Estate Disclosure Requirement	No	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 Sussex.

**Table 9.22-6. Administrative and Technical Capabilities**

Resources	Is this in place? (Yes or No)	Department/Agency/Position
<b>Administrative Capability</b>		
Planning Board	Yes	Planning & Zoning
Mitigation Planning Committee	No	
Environmental Board/Commission	Yes	Shadetree Commission
Open Space Board/Committee	No	
Economic Development Commission/Committee	No	
Maintenance Programs to Reduce Risk	No	
Mutual Aid Agreements	Yes	
<b>Technical/Staffing Capability</b>		
Planner(s) or Engineer(s) with knowledge of land development and land management practices	Yes	Planner-Ken Nelson, Engineer-Harold Pellow
Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Yes	Planner-Ken Nelson, Engineer-Harold Pellow
Planners or engineers with an understanding of natural hazards	Yes	Planner-Ken Nelson, Engineer-Harold Pellow
NFIP Floodplain Administrator	Yes	Municipal Zoning Enforcement Officer – Kevin Kervatt
Surveyor(s)	No	
Personnel skilled or trained in GIS and/or Hazus-MH applications	No	
Scientist familiar with natural hazards	No	
Emergency Manager	Yes	OEM
Grant Writer(s)	Yes	Bruno Associates
Staff with expertise or training in benefit/cost analysis	Yes	CFO
Professionals trained in conducting damage assessments	Yes	Water Sewer Engineer



**Fiscal Capability**

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

**Table 9.22-7. Fiscal Capabilities**

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

**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 Sussex.

**Table 9.22-8. 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)	No		
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	6	
Storm Ready	No		
Firewise	No		
Disaster/Safety Programs in/for Schools	No		
Organizations with Mitigation Focus (advocacy group, non-government)	No		
Public Education Program/Outreach (through website, social media)	Yes		
Public-Private Partnerships	No		

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 Sussex’s capability to work in a hazard-mitigation capacity and/or effectively implement hazard mitigation strategies to reduce hazard vulnerabilities.

Table 9.22-9. 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	
Community Political Capability		X	
Community Resiliency Capability		X	
Capability to Integrate Mitigation into Municipal Processes and Activities		X	

### National Flood Insurance Program

#### NFIP Floodplain Administrator (FPA)

Mark Zschack, Administrator

#### Flood Vulnerability Summary

The Borough does not maintain lists or inventories of properties that have been damaged by floods. During recent storm events (Irene, Lee and Sandy), the Sussex Fire department building and a borough-owned concession stand were damaged. Two substantial damage estimates were made – Brookside Park and the sewer pump station. There is currently one property interested in mitigation and funding sources for this project would be grant funding through FEMA.

#### Resources

The FPA is the sole person assuming the responsibilities of floodplain administration in the Borough. The Borough currently does not provide any NFIP administration services, functions, or education/outreach to the





community. The FPA indicated that there are barriers to running an effective floodplain management program due to lack of personnel. The FPA also stated that he does not feel adequately supported or trained to fulfill his role as the municipal floodplain administrator and that he would consider attending continuing education and/or certification training on floodplain management if it was mandatory.

### Compliance History

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The Borough is currently in good standing with the NFIP; however, it is unknown as to when the most recent compliance audit was conducted.

### Regulatory

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The Borough's floodplain management ordinance meets the FEMA and state minimum requirements. The Borough does not have any other local ordinances, plans or programs that support floodplain management.

### Community Rating System

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

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

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

### Planning

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**Land Use Planning:** The Borough has a Planning Board and Zoning Board of Adjustments which reviews all applications for development and consider natural hazard risk areas in their review.

**2009 Master Plan:** The 2009 Plan included updated information related to the physical characteristics and natural features of the Borough, which are illustrated on various maps contained herein. The Plan included the following applicable goals and objectives:

GOAL #1: To respect the portions of the natural environment still remaining in and around Sussex Borough.

Objective #1: Conserve open space and other valuable natural resources through the proper use of land and facilities, both public and private.

Objective #2: Maintain and supplement the public park and street tree resources that exist within the Borough and encourage the protection of trees on privately owned land.

Objective #3: Protect the environmentally and aesthetically sensitive resources of the community.

Objective #4: Encourage the use of green building technology on future projects and specifically on redevelopment projects.

### Regulatory and Enforcement (Ordinances)

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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



included in the Land Use Chapter. The Borough also has a chapter specific to the hazards associated with environmentally sensitive areas.

### **Chapter XXII128: Flood Damage Prevention**

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 XXV: Stormwater Management**

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

### **Chapter XXI-21-10: Environmental Impact Statement**

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.

### **Operational and Administration**

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The Borough has established a Planning board and Zoning Board of Adjustments that are 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. The Borough has identified a new mitigation initiative to conduct a public outreach and education program on hazard mitigation and preparedness (Sussex Boro – 11); refer to Table 9.22-12.



## **9.22.6 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 9.22-10. Past Mitigation Initiative Status

Initiative Number	2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2016 HMP? or Discontinue)	Describe Next Step 1. If including action in the 2015 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
Sussex Borough 1	Stream bank stabilization, rip-wrap instillation surrounding confluence of Clove Brook and Papakating Creek.	Director of Public Works	No Progress	No progress has been made on this project.	Include in 2016 HMP	This project will be included in the Borough's mitigation initiatives for the 2016 Plan Update.
Sussex Borough 2	Stream bank stabilization of town reservoir and feeder waterway to water treatment plant.	Director of Public Works	No Progress	No progress has been made on this project.	Include in 2016 HMP	This project will be included in the Borough's mitigation initiatives for the 2016 Plan Update.
Sussex Borough 3	Armoring of Lake Rutherford Dam located in High Point State Park.	Director of Public Works	In Progress	This project is currently in the proposal phase.	Include in 2016 HMP	This project will be included in the Borough's mitigation initiatives for the 2016 Plan Update.
Sussex Borough 4	Armoring of Colesville Reservoir Dam located Brink Road	Director of Public Works	In Progress	This project is currently in the proposal phase.	Include in 2016 HMP	This project will be included in the Borough's mitigation initiatives for the 2016 Plan Update.
Sussex Borough 5	Retrofit impact resistant windows and shutters on Sussex Fire Department building located on Loomis Avenue.	Station Commander	No Progress	No progress has been made on this project.	Include in 2016 HMP	This project will be included in the Borough's mitigation initiatives for the 2016 Plan Update.
Sussex Borough 6	Retrofit impact resistant windows and shutters on Sussex Middle School located on Loomis Avenue	School Board Administrator	No Progress	No progress has been made on this project.	Include in 2016 HMP	This project will be included in the Borough's mitigation initiatives for the 2016 Plan Update.
Sussex Borough 7	Retrofit roof to meet current standards for snow load on original section of Sussex middle School located on Loomis Avenue.	School Board Administrator	No Progress	No progress has been made on this project.	Include in 2016 HMP	This project will be included in the Borough's mitigation initiatives for the 2016 Plan Update.



<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 2015 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
Sussex Borough 8	Backup generator for shelter at Sussex Christian School located on Unionville Avenue	OEM Coordinator	No Progress	No progress has been made on this project.	Include in 2016 HMP	This project will be included in the Borough's mitigation initiatives for the 2016 Plan Update.
Sussex Borough 9	Backup generator for shelter at Emergency Operations Center located on Main Street.	OEM Coordinator	No Progress	No progress has been made on this project.	Include in 2016 HMP	This project will be included in the Borough's mitigation initiatives for the 2016 Plan Update.
Sussex Borough 10	Backup generator for shelter at Department of Public Works garage located on Brookside Avenue.	OEM Coordinator	No Progress	No progress has been made on this project.	Include in 2016 HMP	This project will be included in the Borough's mitigation initiatives for the 2016 Plan Update.
Sussex Borough 11	Implement Fire Wise Program throughout the Borough.	OEM Coordinator	No Progress	No progress has been made on this project.	Include in 2016 HMP	This project will be included in the Borough's mitigation initiatives for the 2016 Plan Update.
Sussex Borough 12	Flood-proofing of the Sussex Boro Fire Company building.	Municipal Fire Chief	No Progress	No progress has been made on this project.	Include in 2016 HMP	This project will be included in the Borough's mitigation initiatives for the 2016 Plan Update.
Sussex Borough 13	Conduct all-hazards public education and outreach program for hazard mitigation and preparedness.	OEM Coordinator, in coordination with SCDEM	No Progress	No progress has been made on this project.	Include in 2016 HMP	This project will be included in the Borough's mitigation initiatives for the 2016 Plan Update.



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

The Borough has identified the following additional mitigation projects/activities that have been completed since approval of the 2011 HMP.

- Raise Sewer Pumps; lead agency: DPW; funded through grant funds; plans have been developed but no funds available.

### **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, a second workshop was led by FEMA Region 2 and NJOEM and provided the results to the risk assessment to further assist with the identification of mitigation actions.

Table 9.22-11 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 9.22-12 provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.



Table 9.22-11. 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
Sussex Boro-1 (old #1)	Stream bank stabilization, rip-wrap installation surrounding confluence of Clove Brook and Papakating Creek.	Existing	Flood	2	DPW Manager	Medium	High	FEMA grants with local cost share	Short Term / DOF	High	NSP	NR
Sussex Boro-2 (old #2)	Stream bank stabilization of town reservoir and feeder waterway to water treatment plant.	Existing	Flood	1, 2, 5	DPW Manager	Medium	High	FEMA grants with local cost share	Short Term	High	SIP, NSP	PP, NR
Sussex Boro-3 (old #3)	Armoring of Lake Rutherford Dam located in High Point State Park.	Existing	Dam Failure, Flood, Severe Weather	1, 2, 5, 6	DPW Manager	High	High	FEMA with local cost share	Short Term	High	SIP, NSP	PP, NR
Sussex Boro-4 (old #4)	Armoring of Colesville Reservoir Dam located Brink Road	Existing	Dam Failure, Flood, Severe Weather	1, 2, 5, 6	DPW Manager	High	High	FEMA with local cost share	Short Term	High	SIP, NSP	PP, NR
Sussex Boro-5 (old #5)	Retrofit impact resistant windows and shutters on Sussex Fire Department building located on Loomis Avenue.	Existing	Severe Weather, Severe Winter Weather	2, 6	Station Commander	Medium	Medium	FEMA with local cost share	Short Term	High	SIP	PP
Sussex Boro-6 (old #6)	Retrofit impact resistant windows and shutters on Sussex Middle School located on Loomis Avenue	Existing	Severe Weather, Severe Winter Weather	2, 6	School Administration	High	Medium	FEMA with local cost share; educational grants	Short Term	High	SIP	PP
Sussex Boro-7 (old #7)	Retrofit roof to meet current standards for snow load on original section of Sussex middle School located on Loomis Avenue.	Existing	Severe Weather, Severe Winter Weather	2, 6	School Administration	High	High	FEMA with local cost share; educational grants	Short Term	High	SIP	PP
Sussex Boro-8 (old #8-10)	Ensure continuity of operations at critical facilities. The following were identified at this time: 1. Backup generator for shelter at Sussex Christian School located on Unionville Avenue	Existing	All	1, 6	OEM Coordinator	High	High	FEMA with local cost share; educational grants	Short Term / DOF	High	SIP	PP





Table 9.22-11. 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
	2. Backup generator for shelter at Emergency Operations Center located on Main Street. 3. Backup generator for shelter at Department of Public Works garage located on Brookside Avenue.											
Sussex Boro-9 (old #11)	Implement Fire Wise Program throughout the Borough.	New and Existing	Wildfire	1, 2, 3, 4	OEM Coordinator	Medium	Low	FEMA mitigation grant with local cost share; municipal budget	Short Term	Low	EAP	PR
Sussex Boro-10 (old #12)	Flood-proofing of the Sussex Boro Fire Company building.	Existing	Flood	1, 2, 6	Municipal Fire Chief	Medium	Medium	FEMA mitigation grant with local cost share; municipal budget	Short Term / DOF	Medium	SIP	PP
Sussex Boro-11 (old #13)	Conduct all-hazards public education and outreach program for hazard mitigation and preparedness.	N/A	All	1, 2, 3, 4	OEM Coordinator	Medium	Low	FEMA mitigation grant with local cost share; municipal budget	Short Term	Low	EAP	PR
Sussex Boro-12 (new)	Raise sewer pumps	Existing	Flood, Severe Weather	2, 6	DPW	High	High	FEMA grants with local cost share; municipal budget	Short Term	High	SIP	PP
Sussex Boro-13 (new)	Sewer pumps and DPW garage floor	Existing	Flood	2	DPW Manager	Medium	High	FEMA grants with local cost share	Short Term / DOF	High	NSP, SIP	NR, 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
RFC	Repetitive Flood Claims Grant Program (discontinued)
SRL	Severe Repetitive Loss Grant Program (discontinued)

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 9.22-12. 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
Sussex Boro-1 (old #1)	Stream bank stabilization, rip-wrap instillation surrounding confluence of Clove Brook and Papakating Creek.	0	1	1	1	1	-1	-1	0	0	-1	1	1	1	1	5	High
Sussex Boro-2 (old #2)	Stream bank stabilization of town reservoir and feeder waterway to water treatment plant.	1	1	1	1	1	-1	-1	1	1	-1	1	1	1	0	7	High
Sussex Boro-3 (old #3)	Armoring of Lake Rutherford Dam located in High Point State Park.	1	1	1	1	1	1	-1	0	0	0	1	1	1	0	8	High
Sussex Boro-4 (old #4)	Armoring of Colesville Reservoir Dam located Brink Road	1	1	1	1	1	1	-1	0	0	0	1	1	1	0	8	High
Sussex Boro-5 (old #5)	Retrofit impact resistant windows and shutters on Sussex Fire Department building located on Loomis Avenue.	1	1	1	1	1	1	-1	1	0	1	1	1	1	1	11	High
Sussex Boro-6 (old #6)	Retrofit impact resistant windows and shutters on Sussex Middle School located on Loomis Avenue	1	1	1	1	1	1	-1	1	0	1	1	1	1	1	11	High
Sussex Boro-7 (old #7)	Retrofit roof to meet current standards for snow load on original section of Sussex middle School located on Loomis Avenue.	1	1	1	1	1	1	-1	1	0	1	1	1	1	1	11	High
Sussex Boro-8 (old #8-10)	Ensure continuity of operations at critical facilities	1	1	1	1	1	1	0	0	1	1	1	1	1	1	11	High
Sussex Boro-9 (old #11)	Implement Fire Wise Program throughout the Borough.	0	0	1	0	0	0	1	0	0	0	1	1	0	0	4	Low
Sussex Boro-10 (old #12)	Flood-proofing of the Sussex Boro Fire Company building.	1	1	1	0	0	0	0	0	0	1	1	1	0	0	6	Medium
Sussex Boro-11 (old #13)	Conduct all-hazards public education and outreach program for hazard mitigation and preparedness.	1	1	1	1	1	1	1	0	1	1	1	1	0	0	11	High
Sussex Boro-12 (new)	Raise sewer pumps	0	1	1	1	1	1	1	0	1	1	0	1	1	0	10	High
Sussex Boro-13 (new)	Sewer pumps and DPW garage floor	0	1	1	1	1	-1	-1	0	0	-1	1	1	1	1	5	High

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





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

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None at this time.

### **9.22.8 HAZARD AREA EXTENT AND LOCATION**

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Hazard area extent and location maps have been generated for the Borough of Sussex 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 Sussex has significant exposure. These maps are illustrated in the hazard profiles within Section 5.4, Volume I of this Plan.

### **9.22.9 ADDITIONAL COMMENTS**

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None at this time.



Figure 9.22-1. Borough of Sussex Hazard Area Extent and Location Map 1

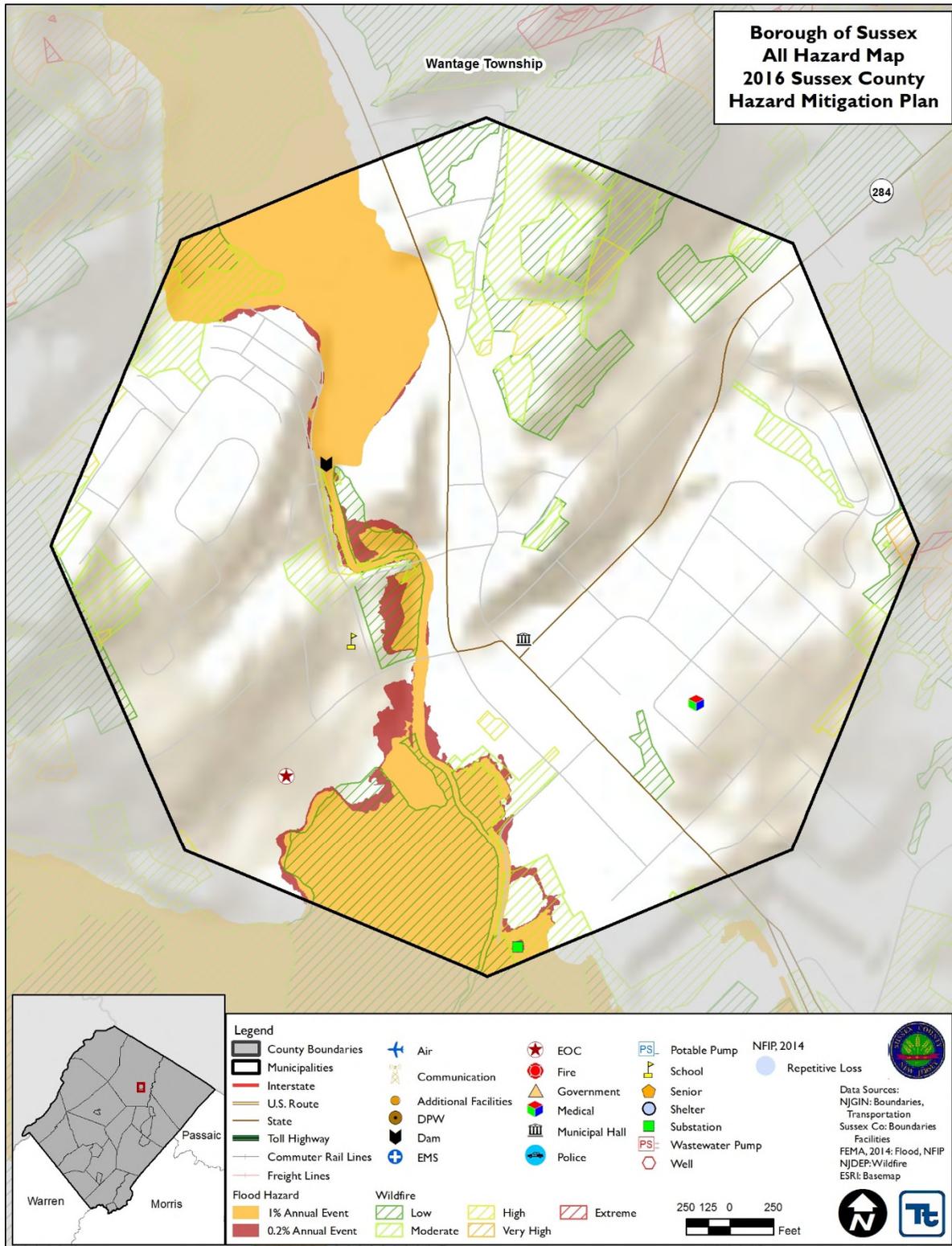
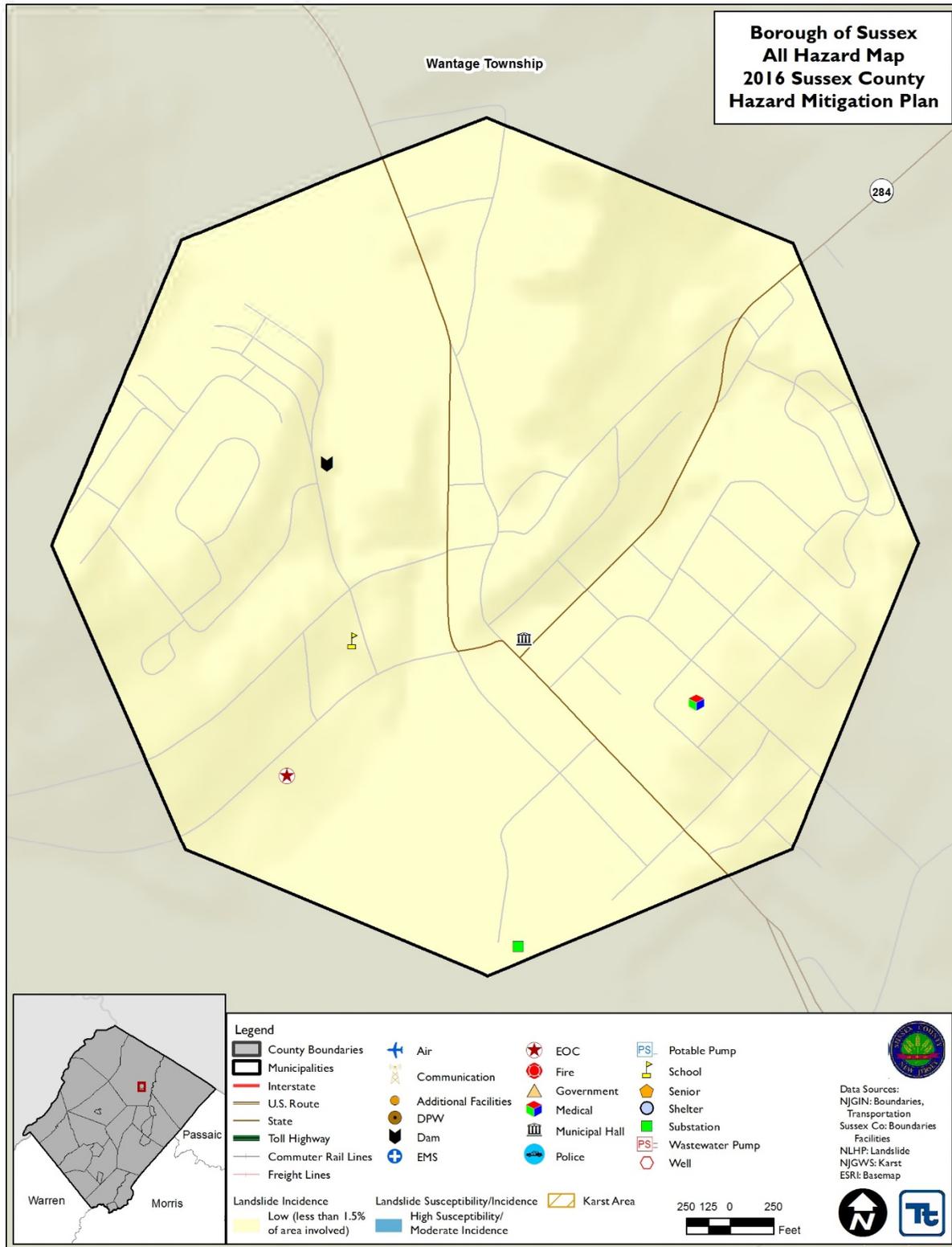




Figure 9.22-2. Borough of Sussex Hazard Area Extent and Location Map 2





**Action Number:** Sussex Boro-1  
**Mitigation Action/Initiative:** Streambank stabilization of Clove Brook and Papkating Creek

Assessing the Risk	
<b>Hazard(s) addressed:</b>	Flood
<b>Specific problem being mitigated:</b>	The confluence of Clove Brook and Papakating Creek is unstable and prone to erosion during periods of flood.
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	1. Rip-wrap stream
	2. Do nothing – current problem continues
	3. No other feasible options were identified for this project
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	Stream bank stabilization, rip-wrap instillation surrounding confluence of Clove Brook and Papakating Creek
<b>Action/Project Category</b>	NSP
<b>Goals Met</b>	2
<b>Applies to existing and or new development, or not applicable</b>	existing
<b>Benefits (losses avoided)</b>	Replacing pumps and equipment
<b>Estimated Cost</b>	high
<b>Priority</b>	high
Plan for Implementation	
<b>Responsible Organization</b>	DPW Manager
<b>Local Planning Mechanism</b>	Stormwater plan
<b>Potential Funding Sources</b>	FEMA Mitigation, Municipal
<b>Timeline for Completion</b>	Short-depends on funding
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: Progress on Action/Project:



**Action Number:** Sussex Boro-1

**Mitigation Action/Initiative:** Streambank stabilization of Clove Brook and Papkating Creek

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	Protect surrounding properties from erosion and flooding
Cost-Effectiveness	1	Reduce repair costs due to flooding
Technical	1	
Political	1	
Legal	-1	
Fiscal	-1	
Environmental	0	
Social	0	
Administrative	-1	
Multi-Hazard	1	
Timeline	1	
Agency Champion	1	
Other Community Objectives	1	
<b>Total</b>	5	
<b>Priority (High/Med/Low)</b>	High	



**Action Number:** Sussex Boro-2  
**Mitigation Action/Initiative:** Stream bank stabilization of town reservoir and feeder waterway to water treatment plant.

Assessing the Risk	
<b>Hazard(s) addressed:</b>	Flood
<b>Specific problem being mitigated:</b>	The waterway leading to the water treatment plant floods
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	1. Stabilize stream bank
	2. Do nothing
	3. No other feasible options were identified for this project
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	Stream bank stabilization of town reservoir and feeder waterway to water treatment plant.
<b>Action/Project Category</b>	SIP, NSP
<b>Goals Met</b>	1, 2, 5
<b>Applies to existing and or new development, or not applicable</b>	Existing
<b>Benefits (losses avoided)</b>	Medium – filtering of water treatment plant increases
<b>Estimated Cost</b>	High
<b>Priority</b>	High
Plan for Implementation	
<b>Responsible Organization</b>	DPW Manager
<b>Local Planning Mechanism</b>	Capital Improvement
<b>Potential Funding Sources</b>	FEMA grants with local cost share
<b>Timeline for Completion</b>	Short Term (2 years)
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: Progress on Action/Project:



**Action Number:** Sussex Boro-2

**Mitigation Action/Initiative:** Stream bank stabilization of town reservoir and feeder waterway to water treatment plant.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protect the water treatment plant from flood damage; reduce damage to water supply for Borough residents
Property Protection	1	Protect the water treatment plant from flood damage
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	-1	
Fiscal	-1	
Environmental	1	
Social	1	
Administrative	-1	
Multi-Hazard	1	
Timeline	1	
Agency Champion	1	
Other Community Objectives	0	
<b>Total</b>	7	
<b>Priority (High/Med/Low)</b>	High	



**Action Number:** Sussex Boro-3  
**Mitigation Action/Initiative:** Armoring of Lake Rutherford Dam located in High Point State Park.

Assessing the Risk	
<b>Hazard(s) addressed:</b>	Flood, Severe Weather
<b>Specific problem being mitigated:</b>	Flooding of roadway and potential houses if breached, flooded during Hurricane Irene
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	1. Armor dam
	2. Do nothing – current problem continues
	3. No other feasible options were identified for this project
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	Armoring of Lake Rutherford Dam located in High Point State Park.
<b>Action/Project Category</b>	NSP
<b>Goals Met</b>	1,2,5,6
<b>Applies to existing and or new development, or not applicable</b>	existing
<b>Benefits (losses avoided)</b>	Roadway repairs, home repairs, water treatment plant repairs
<b>Estimated Cost</b>	high
<b>Priority</b>	high
Plan for Implementation	
<b>Responsible Organization</b>	DPW Manager
<b>Local Planning Mechanism</b>	Capital Improvement
<b>Potential Funding Sources</b>	FEMA grants with local cost share
<b>Timeline for Completion</b>	Short Term (2 years)
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: 8/3/15 Progress on Action/Project: Plans being worked on for this project



Action Number: Sussex Boro-3

Mitigation Action/Initiative: Armoring of Lake Rutherford Dam located in High Point State Park.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protect roadway and homes flood damage
Property Protection	1	Protect roadway and homes flood damage
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	-1	
Environmental	0	
Social	0	
Administrative	0	
Multi-Hazard	1	
Timeline	1	
Agency Champion	1	
Other Community Objectives	0	
<b>Total</b>	8	
<b>Priority (High/Med/Low)</b>	High	



**Action Number:** Sussex Boro-4  
**Mitigation Action/Initiative:** Armoring of Colesville Reservoir Dam located Brink Road

Assessing the Risk	
<b>Hazard(s) addressed:</b>	Dam Failure, Flood, Severe Weather
<b>Specific problem being mitigated:</b>	Area of the dam floods after heavy rains
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	1. Armor dam
	2. Do nothing
	3. No other feasible options were identified for this project
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	Armoring of Colesville Reservoir Dam located Brink Road
<b>Action/Project Category</b>	NSP, SIP
<b>Goals Met</b>	1, 2, 5, 6
<b>Applies to existing and or new development, or not applicable</b>	Existing
<b>Benefits (losses avoided)</b>	High – prevent roadway flooding and potential damage to homes
<b>Estimated Cost</b>	High
<b>Priority</b>	High
Plan for Implementation	
<b>Responsible Organization</b>	DPW Manager
<b>Local Planning Mechanism</b>	Capital Improvement
<b>Potential Funding Sources</b>	FEMA grants with local cost share
<b>Timeline for Completion</b>	Shor Term
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: Progress on Action/Project:



**Action Number:** Sussex Boro-4

**Mitigation Action/Initiative:** Armoring of Colesville Reservoir Dam located Brink Road

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protect residents in the area of the dam
Property Protection	1	Protect homes and properties near the area of the dam
Cost-Effectiveness	1	Reduce / eliminate repair costs
Technical	1	
Political	1	
Legal	1	
Fiscal	-1	
Environmental	0	
Social	0	
Administrative	0	
Multi-Hazard	1	Dam failure, flood and severe weather
Timeline	1	
Agency Champion	1	
Other Community Objectives	0	
<b>Total</b>	8	
<b>Priority (High/Med/Low)</b>	High	



**Action Number:** Sussex Boro-5  
**Mitigation Action/Initiative:** Retrofit impact resistant windows at Sussex Firehouse

Assessing the Risk	
<b>Hazard(s) addressed:</b>	Severe Weather, Severe Winter Weather
<b>Specific problem being mitigated:</b>	Potential damage to fire house during periods of strong winds
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	1. Retrofit impact resistant windows at Sussex Firehouse
	2. Do nothing
	3. No other feasible options were identified for this project
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	Retrofit impact resistant windows at Sussex Firehouse
<b>Action/Project Category</b>	SIP
<b>Goals Met</b>	2, 6
<b>Applies to existing and or new development, or not applicable</b>	Existing
<b>Benefits (losses avoided)</b>	Medium – loss of using firehouse
<b>Estimated Cost</b>	Medium
<b>Priority</b>	High
Plan for Implementation	
<b>Responsible Organization</b>	Station Commander
<b>Local Planning Mechanism</b>	Capital Improvement
<b>Potential Funding Sources</b>	FEMA grants with local cost share
<b>Timeline for Completion</b>	Short Term
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: Progress on Action/Project:



Action Number: Sussex Boro-5

Mitigation Action/Initiative: Retrofit impact resistant windows at Sussex Firehouse

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	Protect firehouse from wind damage
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	-1	
Environmental	1	
Social	0	
Administrative	1	
Multi-Hazard	1	Severe Weather, Severe Winter Weather
Timeline	1	
Agency Champion	1	
Other Community Objectives	0	
<b>Total</b>	11	
<b>Priority (High/Med/Low)</b>	High	



**Action Number:** Sussex Boro-6  
**Mitigation Action/Initiative:** Retrofit impact resistant windows at Sussex Middle School

Assessing the Risk	
<b>Hazard(s) addressed:</b>	Severe Weather, Severe Winter Weather
<b>Specific problem being mitigated:</b>	Potential damage to middle school
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	1. Retrofit impact resistant windows at Sussex Middle School
	2. Do nothing
	3. No other feasible options were identified for this project
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	Retrofit impact resistant windows at Sussex Middle School
<b>Action/Project Category</b>	SIP
<b>Goals Met</b>	2, 6
<b>Applies to existing and or new development, or not applicable</b>	Existing
<b>Benefits (losses avoided)</b>	High – loss of using school and a shelter
<b>Estimated Cost</b>	Medium
<b>Priority</b>	High
Plan for Implementation	
<b>Responsible Organization</b>	School Administration
<b>Local Planning Mechanism</b>	Capital Improvement
<b>Potential Funding Sources</b>	FEMA mitigation grant with local cost share; education grants
<b>Timeline for Completion</b>	Short Term
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: Progress on Action/Project:



Action Number: Sussex Boro-6

Mitigation Action/Initiative: Retrofit impact resistant windows at Sussex Middle School

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protect students from injuries as a result of wind damage
Property Protection	1	Protect school from wind damage
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	-1	
Environmental	1	
Social	0	
Administrative	1	
Multi-Hazard	1	Severe Weather, Severe Winter Weather
Timeline	1	
Agency Champion	1	
Other Community Objectives	0	
<b>Total</b>	11	
<b>Priority (High/Med/Low)</b>	High	



**Action Number:** Sussex Boro-8  
**Mitigation Action/Initiative:** Ensure continuity of operations at critical facilities

Assessing the Risk	
<b>Hazard(s) addressed:</b>	All
<b>Specific problem being mitigated:</b>	School does not have a backup generator and it serves as a shelter for the community. Municipal building does not have back up power and need to be in service to operate as an EOC/shelter also for continuity of operations. DPW does not have backup power and needs to be in service for storm operations.
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	<ol style="list-style-type: none"> <li>1. Purchase and install a backup generator</li> <li>2. Do nothing</li> <li>3. No other feasible options were identified for this project</li> </ol>
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	Backup generator for shelter at Sussex Christian School located on Unionville Avenue. Obtain back-up power to ensure continuity of operations at school, which is also a shelter for the Borough. Purchase a generator for the municipal building to ensure continuity of operations during and post hazard events. Purchase a generator for the DPW garage to ensure continuity of operations during and post hazard events.
<b>Action/Project Category</b>	SIP
<b>Goals Met</b>	1, 6
<b>Applies to existing and or new development, or not applicable</b>	Existing
<b>Benefits (losses avoided)</b>	High
<b>Estimated Cost</b>	High
<b>Priority</b>	High
Plan for Implementation	
<b>Responsible Organization</b>	OEM Coordinator
<b>Local Planning Mechanism</b>	Capital Improvement, HMP
<b>Potential Funding Sources</b>	FEMA grants with local cost share
<b>Timeline for Completion</b>	Short Term / DOF
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: Progress on Action/Project:



**Action Number:** Sussex Boro-8

**Mitigation Action/Initiative:** Ensure continuity of operations at critical facilities

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Provide shelter to residents who are in need during an emergency
Property Protection	1	Allow for continuity of operations of school to function as shelter; allow DPW to remain in operation during hazard events
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	0	Grant is needed to implement
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	All
Timeline	1	
Agency Champion	1	
Other Community Objectives	0	
<b>Total</b>	11	
<b>Priority (High/Med/Low)</b>	High	



**Action Number:** Sussex Boro-9  
**Mitigation Action/Initiative:** Floodproofing the Sussex Borough Firehouse

Assessing the Risk	
<b>Hazard(s) addressed:</b>	Flood
<b>Specific problem being mitigated:</b>	The firehouse building has the potential to flood during periods of heavy rain. This impacts the equipment and the Borough's ability to respond to emergencies.
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	1. Floodproof the firehouse
	2. Do nothing
	3. No other feasible options were identified for this project
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	Floodproof the fire house
<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
<b>Benefits (losses avoided)</b>	Medium
<b>Estimated Cost</b>	Medium
<b>Priority</b>	Medium
Plan for Implementation	
<b>Responsible Organization</b>	Fire Chief
<b>Local Planning Mechanism</b>	Emergency Management
<b>Potential Funding Sources</b>	FEMA grants with local cost share
<b>Timeline for Completion</b>	Short Term / DOF
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: Progress on Action/Project:



**Action Number:** Sussex Boro-9  
**Mitigation Action/Initiative:** Floodproofing the Sussex Borough Firehouse

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	Protect firehouse from flood damage
Cost-Effectiveness	1	
Technical	0	
Political	0	
Legal	0	
Fiscal	0	
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	1	Flood, Severe Weather
Timeline	1	
Agency Champion	0	
Other Community Objectives	0	
<b>Total</b>	6	
<b>Priority (High/Med/Low)</b>	Medium	



**Action Number:** Sussex Boro-12  
**Mitigation Action/Initiative:** Raise sewer pumps to avoid flood damage

Assessing the Risk	
<b>Hazard(s) addressed:</b>	Flood, Severe Weather
<b>Specific problem being mitigated:</b>	Sewer pumps and electrical components are located in floodprone areas and have the potential of becoming damaged during flooding events
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	1. Raise sewer pumps
	2. Do nothing
	3. No other feasible options were identified for this project
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	Raise sewer pumps to avoid damage from flooding/heavy rains
<b>Action/Project Category</b>	SIP
<b>Goals Met</b>	2, 6
<b>Applies to existing and or new development, or not applicable</b>	Existing
<b>Benefits (losses avoided)</b>	High
<b>Estimated Cost</b>	High
<b>Priority</b>	High
Plan for Implementation	
<b>Responsible Organization</b>	DPW Manager
<b>Local Planning Mechanism</b>	Capital Improvement, HMP
<b>Potential Funding Sources</b>	FEMA grant funds with local cost share
<b>Timeline for Completion</b>	Short Term
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: Progress on Action/Project:



**Action Number:** Sussex Boro-12

**Mitigation Action/Initiative:** Raise sewer pumps to avoid flood damage

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	1	Need funding
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	0	
Timeline	1	
Agency Champion	1	
Other Community Objectives		
<b>Total</b>	10	
<b>Priority (High/Med/Low)</b>	High	



**Action Number:** Sussex Boro-13  
**Mitigation Action/Initiative:** Sewer pumps and DPW garage floor

Assessing the Risk	
<b>Hazard(s) addressed:</b>	Flood
<b>Specific problem being mitigated:</b>	TBD
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	1. Install sewer pumps
	2. Do nothing
	3. No other feasible options were identified for this project
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	TBD
<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
<b>Benefits (losses avoided)</b>	High
<b>Estimated Cost</b>	High
<b>Priority</b>	High
Plan for Implementation	
<b>Responsible Organization</b>	DPW Manager
<b>Local Planning Mechanism</b>	Emergency Management
<b>Potential Funding Sources</b>	FEMA with local cost share
<b>Timeline for Completion</b>	Short Term / DOF
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: Progress on Action/Project:



Action Number: Sussex Boro-13

Mitigation Action/Initiative: Sewer pumps and DPW garage floor

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	Protect the DPW garage from damages; allow for continuity of operations
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	-1	
Fiscal	-1	
Environmental	0	
Social	0	
Administrative	-1	
Multi-Hazard	1	Flood, Severe Weather
Timeline	1	Project will be completed within five years
Agency Champion	1	
Other Community Objectives	1	
<b>Total</b>	<b>5</b>	
<b>Priority (High/Med/Low)</b>	<b>High</b>	