

Bath Borough, Northampton County Annex

Hazard Mitigation Plan Points-of-Contact

Primary:

Bradford T. Flynn
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Alternate:

Municipal Profile

Bath Borough is located in the western part of Northampton County. It encompasses an area of approximately 0.9 square miles, and has a population of 2,693 (2010 Census). The borough is bordered by Upper Nazareth Township to the east and East Allen Township to the north, west, and south.

The Monocacy Creek flows southward from the northwest corner of the borough south into East Allen Township. Another small stream flows into the borough from the west, just south of PA Route 248. A small pond runs parallel to PA Routes 329 / 987 to the southwest of the borough; its northern tip enters the borough's border. Penn-Dixie Pond also enters the borough from the east, south of PA Route 248.

Bath Borough is a hub of several major roadways. PA Route 248 (Main Street / Northampton Street) crosses through the center of the borough east-west. PA Route 512 (Walnut Street) crosses through the middle of the borough north-south. PA Routes 329 and 987 share the designation of Race Street until it meets PA Route 248, when PA Route 329 ends. PA Route 987 follows Main Street to the southeast to South Chestnut Street, where it turns north and shares South Chestnut Street with PA Route 248 until that road turns east on Northampton Street. PA Route 987 continues north as Chestnut Street.

Municipal Participation

1. Identify municipal stakeholders to be involved in the planning process such as, floodplain administrator, public works, emergency management, engineers, planners, etc., and include their specific role in the process.

Bradford T. Flynn, Borough Manager

Role: Floodplain Administrator, planning, coordinating information and communicating with stakeholders

Chuck Tulley, Bath Fire Department, Chief

Role: Emergency management and fire protection service coordinator; risk and exposure assessments / planning

Ron Madison (Collier's Engineering & Design)

Role: Engineering / Planning

2. Identify community stakeholders such as; neighborhood groups, religious groups, major employers / businesses, etc., that will be informed and / or involved in the planning process and describe how they will be involved.

No identifiable groups to include at this time.

3. Describe how the public **will be engaged** in the current planning process examples, newsletters, social media, etc., **and how they were engaged** since the 2013 Hazard Mitigation Plan.

The borough may add information pertaining to hazard mitigation in the Winter Newsletter, social media and the borough's website. Since 2013, it is unknown how the public was involved in the 2013 Hazard Mitigation planning process. There exists no records on file determining how community involvement was achieved.

Compliance with the National Flood Insurance Program (NFIP)

Topic	Identify source of information, if different from the one listed.	Additional Comments
1. Staff Resources		
Is the Community Floodplain Administrator (FPA) or NFIP Coordinator certified?	Community FPA	Yes. The FPA is the Borough Manager; no, the Borough Manager is not certified. Open to certification process.
Is floodplain management an auxiliary function?	Community FPA	Unsure. Believed to be a primary function.
Provide an explanation of NFIP administration services (e.g., permit review, GIS, education or outreach, inspections, engineering capability)	Community FPA	Bath Code of Ordinances No. 2014-640, which amends Chapter 172 Zoning; providing for Flood Plain Management Regulations, identifies responsible parties, obtaining a permit for any construction within a floodplain. Sets minimum requirements for construction and development within floodplains.
What are the barriers to running an effective NFIP program in the community, if any?	Community FPA	Failure in local succession planning; current manager was unaware of this management responsibility. Learning of this entirely through the 2018 Mitigation Planning process.
2. Compliance History		
Is the community in good standing with the NFIP?	State NFIP Coordinator, FEMA NFIP Specialist, or community records	Since the adoption of Ordinance No. 2014-640, Senior Mitigation Planning Specialist, Katie Lipiecki, CFM of FEMA stated the ordinance amendment brought Bath into compliance with NFIP and FIRM. Letter CID #420717 issued August 1 st , 2014.
Are there any outstanding compliance issues (i.e., current violations)?		None
When was the most recent Community Assistance Visits (CAV) or Community Assistance Contact (CAC)?		Unknown
Is a CAV or CAC scheduled or needed?		Unknown

Compliance with the National Flood Insurance Program (NFIP) – *continued*

Topic	Identify source of information, if different from the one listed.	Additional Comments
3. Regulation		
When did the community enter the NFIP?	NFIP Community Status Book	Since the adoption of Ordinance 2014-640 dated June 2, 2014.
Are the Flood Insurance Rate Maps (FIRMs) digital or paper? How are residents assisted with mapping?	Community FPA	The Borough has physical copies of the maps located in the borough office. There also appears to be copies of the maps by CD-ROM.
Do floodplain regulations meet or exceed FEMA or State minimum requirements? If so, in what ways?	Community FPA	Ordinance No. 2014-640 Section 1.2 has Abrogation and Greater Restrictions clause.
Describe the permitting process	Community FPA, State, FEMA NFIP	Ordinance No. 2014-640 Section 2.4 Application Procedures and Requirements. (See Exhibit A)
4. Insurance Summary		
How many NFIP policies are in the community? What is the total premium and coverage?	State NFIP Coordinator or FEMA NFIP Specialist	Unsure where to obtain this information.
How many claims have been paid in the community? What is the total amount of paid claims? How many substantial damage claims have there been?	FEMA NFIP or Insurance Specialist	
How many structures are exposed to flood risk within the community?	Community FPA or GIS Analyst	
Describe any areas of flood risk with limited NFIP policy coverage	Community FPA or FEMA Insurance Specialist	
5. Community Rating System (CRS)		
Does the community participate in CRS?	Community FPA, State, or FEMA NFIP	No, open to accepting information / training on the CRS program.
If so, what is the community's CRS Class Ranking?	Flood Insurance Manual (http://www.fema.gov/floodinsurancemanual.gov)	N/A
What categories and activities provide CRS points and how can the Class be improved?		N/A
Does the plan include CRS planning requirements?	Community FPA, FEMA CRS Coordinator, or ISO representative	N/A

Community Assets

Community assets are defined to include anything that is important to the character as well as the function of a community, and can be described in four categories, they are; people, economy, natural environment and built environment. Please identify the community assets and location under each category.

1. People

- Concentrations of vulnerable populations such as the elderly, physically or mentally disabled, non-English speaking, and the medically or chemically dependent.

Howard Jones Assisted Living Facility
Alexandria Manor Assisted Living Facility

- Types of visiting populations where large numbers of people are concentrated such as visitors for special events and students.

Keystone Park
Spuds N Suds Event (block-party type event)

2. Economy

Major employers, primary economic sectors such as agriculture and commercial centers where losses would have a severe impact on the community.

Bath Supply
Howard Jones Assisted Living Facility
Alexandria Manor Assisted Living Facility

3. Natural Environment

Those areas / features that can provide protective functions that reduce the magnitude of hazard events such as, wetlands or riparian areas, and other environmental features important to protect.

Stream tributaries throughout borough leading to Monocacy Creek

Community Assets – *continued*

4. Built Environment

- Existing structures such as, concentrations of buildings that may be more vulnerable to hazards based on location, age, construction type and / or condition of use.

Borough Downtown Business Core
Old Forge Drive
Bath Supply Warehousing Site
Howard Jones Assisting Living Facility

- Infrastructure systems such as water and wastewater facilities, power utilities, transportation systems, communication systems, energy pipelines and storage.

Bath Water Authority Waste / Treatment Facility

- High potential loss facilities such as, dams, locations that house hazardous materials, military and / or civilian defense installations.

N/A

- Critical facilities such as, hospitals, medical facilities, police and fires stations, emergency operations centers, shelters, schools and airports / heliports.

Howard Jones Assisted Living Facility
Alexandria Manor Assisted Living Facility
Borough of Bath Municipal Complex

- Cultural / historical resources such as, museums, parks, stadiums, etc.

Bath Museum; future site
Steckel House (National Registry)
Bath Historic Architectural Resources Area (Downtown Bath)
Keystone Park / Pavilion
Firefighter's Field

Capability Assessment

Capability	✓ Regulatory ✓ Tools ✓ Programs	Status			Department / Agency Responsible	Effect on Hazard Loss Reduction: -Supports -Neutral -Hinders	Change since 2013 Plan? + Positive - Negative	Has the 2013 Plan been integrated into the Regulatory Tool/Program ? If so, how?	How can these capabilities be expanded and improved to reduce risk?	Additional Comments
		In Place	Date Adopted or Updated	Under Development						
1. Planning & Regulatory	Comprehensive Plan	X	1969	2017	Nazareth Area Council of Governments / Lehigh Valley Planning Commission	N	Unknown	Unknown		In process of updating municipal comprehensive plan as of 2017.
	Capital Improvement Plan	X	2016	2016	Borough of Bath	S	Unknown	Yes. Capital Improvement Plan will address stormwater projects to mitigate flooding concerns.	In-flow of more capital cash and / or grant opportunities.	
	Economic Development Plan									
	Continuity of Operations Plan									
	Stormwater Management Plan / Ordinance	X	1990		Borough of Bath Council	N				
	Open Space Management Plan (or Parks/Rec., Greenways Plan)									
	Natural Resource Protection Plan									
Transportation Plan										

Capability Assessment – continued

Capability	✓ Regulatory ✓ Tools ✓ Programs	Status			Department / Agency Responsible	Effect on Hazard Loss Reduction: -Supports -Neutral -Hinders	Change since 2013 Plan? + Positive - Negative	Has the 2013 Plan been integrated into the Regulatory Tool/Program ? If so, how?	How can these capabilities be expanded and improved to reduce risk?	Additional Comments
		In Place	Date Adopted or Updated	Under Development						
1. Planning & Regulatory	Historic Preservation Plan	X	1998; 2016		Borough Historical Architectural Review Board (HARB); Historic District; HARB Administrator	N				
	Floodplain Management Plan									
	Farmland Preservation									
	Evacuation Plan									
	Disaster Recovery Plan	X	2011		Borough Emergency Management Coordinator	S	Positive			Revised as of 2011
	Hazard Mitigation Plan	X	11/2018		Northampton County Emergency Management Services			N/A		
	Emergency Operations Plan	X	5/2019		Borough Emergency Management Coordinator	S	Positive			Revised as of 2019
Zoning Regulations	X	5/1/1978		Borough Council; Zoning Hearing Board	N					

Capability Assessment – continued

Capability	<ul style="list-style-type: none"> ✓ Regulatory ✓ Tools ✓ Programs 	Status			Department / Agency Responsible	Effect on Hazard Loss Reduction: - Supports - Neutral - Hinders	Change since 2013 Plan? + Positive - Negative	Has the 2013 Plan been integrated into the Regulatory Tool/Program ? If so, how?	How can these capabilities be expanded and improved to reduce risk?	Additional Comments
		In Place	Date Adopted or Updated	Under Development						
1. Planning & Regulatory	Floodplain Regulations									
	NFIP Participation	X	2012; 2014		FEMA; Bath Council	N		Unknown		Updated by Ordinance No. 2014-640
	Building Code	X	1998		Borough of Bath Council					
	Fire Code	X	1995		Borough of Bath Council					
	Other									

Capability Assessment – *continued*

Capability	✓ Staff ✓ Personnel ✓ Resources	Yes	No	Department / Agency	Change since 2013 Plan? + Positive - Negative	How can these capabilities be expanded and improved to reduce risk?	Additional Comments
2. Administrative & Technology	Planners (with land use / land development knowledge)	X		Keystone Consulting Engineers			
	Planners or engineers (with natural and / or human-caused hazards knowledge)	X		Keystone Consulting Engineers			
	Engineers or professionals trained in building and / or infrastructure construction practices (including building inspectors)	X		Keystone Consulting Engineers			
	Emergency Manager	X		Emergency Mgt. Coordinator			
	Floodplain administrator / manager	X		Borough Manager			
	Land surveyors	X		Keystone Consulting Engineers			
	Staff familiar with the hazards of the community		X				
	Personnel skilled in Geographical Information Systems (GIS) and / or FEMA's HAZUS program	X		Borough Manager			
	Grant writers or fiscal staff to handle large / complex grants	X		Borough Manager			
	Other						

Capability Assessment – continued

Capability			Department / Agency	Change since 2013 Plan? + Positive - Negative	How can these capabilities be expanded and improved to reduce risk?	Additional Comments
	Yes	No				
3. Financial Resources	Capital improvement programming		X			
	Community Development Block Grants (CDBG)	X		Northampton County		
	Special purposes taxes		X			
	Gas / Electricity utility fees		X			
	Water / Sewer fees		X	Borough Authority		Separate entity from Borough of Bath
	Stormwater utility fees	X		Borough Council		
	Development impact fees		X			
	General obligation, revenue, and / or special tax bonds	X		Borough Council		
	Partnering arrangements or intergovernmental agreements		X			No official arrangements; in kind services and equipment sharing with neighboring Public Works Depts.
Other						

Capability Assessment – continued

Capability	✓ Program ✓ Organization	Yes	No	Department / Agency	Change since 2013 Plan? + Positive - Negative	How can these capabilities be expanded and improved to reduce risk?	Additional Comments
4. Education & Outreach	Firewise Communities Certification		X				
	StormReady Certification		X				
	Natural disaster or safety-related school programs		X				
	Ongoing public education or information programs such as, responsible water use, fire safety, household preparedness, and environmental education.	X					
	Public-private partnership initiatives addressing disaster related issues.		X				
	Local citizen groups or non-profit organizations focused on environmental protection, emergency preparedness, access and functional needs populations, etc.		X				
	Other						

Capability		Degree of Capability			Change since the 2013 Hazard Mitigation Plan? If so, how?	Additional Comments
		Limited	Moderate	High		
5. Self – Assessment	Planning and Regulatory		X			
	Administrative and Technical		X			
	Financial	X				
	Education and Outreach	X				

Known or Anticipated Future Development / Redevelopment

Development / Property Name	Type of Development	Number of Structures	Location	Known Hazard Zone	Description / Status
Monocacy Heights / Bath View Condos	Residential	<5 – up to 50	250 N. Walnut Street	N/A	Medium residential apartment site with possible light commercial development; or town homes
Residential	Residential	1	215 E. Main Street	N/A	Redevelopment of former municipal building site to residential use
Keystone Park	Parks / Recreation	1	250 Green Street	Flooding	Park improvement; water feature
Firefighter's Field	Parks / Recreation	0	300 N. Chestnut Street	Flooding	Park improvement; dog park

Natural & Non-Natural Event History Specific to Bath Borough

Type of Event and Date(s)	FEMA Disaster # (if applicable)	Local Damage(s) or Loss(es)
Hurricane Sandy – 10/26/2012	DR-4099-PA	Downtown Flooding
Winter Storm Jonas – 1/23/2016	DR-4267-PA	
Pennsylvania COVID-19 Pandemic – 1/2020	DR-4506-PA	Emergency Protective measures to combat COVID-19 Pandemic.
Remnants of Hurricane Ida	DR-4618-PA	Assistance to eligible individuals and families affected by this disaster.

2013 Municipal Action Plan Status

Existing Mitigation Action (from 2013 Hazard Mitigation Plan)		Status					Additional Comments
		No Progress / Unknown	In Progress	Continuous	Completed	Discontinued	
1	Keystone Park Pavilion Drainage Improvements – Expand/widen the pipe/culvert, which drains directly into the Keystone Park Pavilion parking lot. The Pavilion was significantly damaged by the lack of drainage capacity of the pipe in its current configuration, during both Irene and Lee storm events.				X		Borough will be expanding project. Borough owns new portion of property to the WNW of Pavilion. Will be installing new large diameter piping to control water runoff from tributary; further decreasing likelihood of Pavilion flooding. Not carried through to 2018 Actions.
2	Retrofit structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Specifically identified are the following: - Retrofit 224 W. Main St. (Borough-owned property) to withstand flooding. - Keystone Pavilion will be reconstructed in 2013. The new facility will have an upgraded retaining wall. - 226 W. Main St. Phase 1: Identify appropriate candidates for retrofitting based on cost-effectiveness versus relocation. Phase 2: Where retrofitting is determined to be a viable option, work with property owners toward implementation of that action based on available funding from FEMA and local match availability.				X	X	224 W Main St will be sold to the public; Spring '18
3	Purchase, or relocate structures located in hazard- prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Specifically identified are the following: - 226 W. Main St., Bath, PA Phase 1: Identify appropriate candidates for relocation based on cost-effectiveness versus retrofitting. Phase 2: Where relocation is determined to be a viable option, work with property owners toward implementation of that action based on available funding from FEMA and local match availability.				X		

2013 Municipal Action Plan Status – *continued*

Existing Mitigation Action (from 2013 Hazard Mitigation Plan)		Status					Additional Comments
		No Progress / Unknown	In Progress	Continuous	Completed	Discontinued	
4	Maintain compliance with and good-standing in the NFIP including adoption and enforcement of floodplain management requirements (e.g. regulating all new and substantially improved construction in Special Hazard Flood Areas), floodplain identification and mapping, and flood insurance outreach to the community. Further, continue to meet and/or exceed the minimum NFIP standards and criteria through the following NFIP- related continued compliance actions identified below.				X		
5	Conduct and facilitate community and public education and outreach for residents and businesses to include, but not be limited to, the following to promote and effect natural hazard risk reduction: Provide and maintain links to the HMP website, and regularly post notices on the County/municipal homepage(s) referencing the HMP webpages. Prepare and distribute informational letters to flood vulnerable property owners and neighborhood associations, explaining the availability of mitigation grant funding to mitigate their properties, and instructing them on how they can learn more and implement mitigation. Use email notification systems and newsletters to better educate the public on flood insurance, the availability of mitigation grant funding, and personal natural hazard risk reduction measures. Work with neighborhood associations, civic and business groups to disseminate information on flood insurance and the availability of mitigation grant funding.		X				
6	Begin the process to adopt higher regulatory standards to manage flood risk (i.e. increased freeboard, cumulative substantial damage/improvements) and sinkhole risk (e.g. carbonate bedrock standards).			X			
7	Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed.			X			
8	Have designated NFIP Floodplain Administrator (FPA) become a Certified Floodplain Manager through the ASFPM, and pursue relevant continuing education training such as FEMA Benefit-Cost Analysis.			X			Current Borough Manager/Flood Plain Administrator would like to obtain information on FPA certification process.

2013 Municipal Action Plan Status – *continued*

Existing Mitigation Action (from 2013 Hazard Mitigation Plan)		Status					Additional Comments
		No Progress / Unknown	In Progress	Continuous	Completed	Discontinued	
9	Participate in the Community Rating System (CRS) to further manage flood risk and reduce flood insurance premiums for NFIP policyholders. This shall start with the submission to FEMA-DHS of a Letter of Intent to join CRS, followed by the completion and submission of an application to the program once the community's current compliance with the NFIP is established.			X			Borough has yet to engage in the Community Rating System.
10	Archive elevation certificates			X			
11	Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0			X			
12	Complete the ongoing updates of the Comprehensive Emergency Management Plans.			X			
13	Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations.			X			
14	Identify and develop agreements with entities that can provide support with FEMA/PEMA paperwork after disasters; qualified damage assessment personnel – Improve post-disaster capabilities – damage assessment; FEMA/PEMA paperwork compilation, submissions, record-keeping			X			
15	Work with regional agencies (i.e. County and PEMA) to help develop damage assessment capabilities at the local level through such things as training programs, certification of qualified individuals (e.g. code officials, floodplain managers, engineers).			X			

Notes:

1. Actions not carried through to the 2018 Action Plan are so noted.
2. To maintain National Flood Insurance Program (NFIP) compliance, actions related to the NFIP were carried through to the 2018 Action Plan even if identified by the municipality as completed.

2018 Mitigation Action Plan

Mitigation Action		Mitigation Technique Category	Hazard(s) Addressed	Priority (H / M / L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
1	Retrofit structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Phase 1: Identify appropriate candidates for retrofitting based on cost-effectiveness versus relocation. Phase 2: Where retrofitting is determined to be a viable option, work with property owners toward implementation of that action based on available funding from FEMA and local match availability.	Structure and Infrastructure	Flood, Windstorm/ Tornado, Winter Storm, Earthquake	High	High	FEMA Mitigation Grant Programs and local budget (or property owner) for cost share	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from PEMA, FEMA	Long-term (depending on funding)	Existing
2	Purchase, or relocate structures located in hazard- prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Phase 1: Identify appropriate candidates for relocation based on cost-effectiveness versus retrofitting. Phase 2: Where relocation is determined to be a viable option, work with property owners toward implementation of that action based on available funding from FEMA and local match availability.	Structure and Infrastructure	Flood	High	High	FEMA Mitigation Grant Programs and local budget (or property owner) for cost share	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from PEMA, FEMA	Long-term (depending on funding)	Existing

2018 Mitigation Action Plan – continued

Mitigation Action	Mitigation Technique Category	Hazard(s) Addressed	Priority (H / M / L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
3 Maintain compliance with and good-standing in the NFIP including adoption and enforcement of floodplain management requirements (e.g. regulating all new and substantially improved construction in Special Hazard Flood Areas), floodplain identification and mapping, and flood insurance outreach to the community. Further, continue to meet and/or exceed the minimum NFIP standards and criteria through the following NFIP- related continued compliance actions identified below.	Local Plans and Regulations	Flood, Windstorm/ Tornado, Winter Storm	High	Low - Medium	Municipal Budget	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from PEMA, ISO FEMA	Ongoing	New & Existing

2018 Mitigation Action Plan – continued

Mitigation Action	Mitigation Technique Category	Hazard(s) Addressed	Priority (H / M / L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
<p>4 Conduct and facilitate community and public education and outreach for residents and businesses to include, but not be limited to, the following to promote and effect natural hazard risk reduction: Provide and maintain links to the HMP website, and regularly post notices on the County/municipal homepage(s) referencing the HMP webpages. Prepare and distribute informational letters to flood vulnerable property owners and neighborhood associations, explaining the availability of mitigation grant funding to mitigate their properties, and instructing them on how they can learn more and implement mitigation. Use email notification systems and newsletters to better educate the public on flood insurance, the availability of mitigation grant funding, and personal natural hazard risk reduction measures. Work with neighborhood associations, civic and business groups to disseminate information on flood insurance and the availability of mitigation grant funding.</p>	Education and Awareness	All Hazards	High	Low-Medium	Municipal Budget	Municipality with support from Planning Partners, PEMA, FEMA	Short-term	N/A

2018 Mitigation Action Plan – continued

Mitigation Action		Mitigation Technique Category	Hazard(s) Addressed	Priority (H / M / L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
5	Begin and/or continue the process to adopt higher regulatory standards to manage flood risk (i.e. increased freeboard, cumulative substantial damage/improvements) and sinkhole risk (e.g. carbonate bedrock standards).	Local Plans and Regulations	Flood; Subsidence/ Sinkholes	High	Low	Municipal Budget	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from PEMA, FEMA	Short-term	New & Existing
6	Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed.	Local Plans and Regulations	Flood, Windstorm/ Tornado, Winter Storm	Medium	Low	Municipal Budget	NFIP Floodplain Administrator with support from PA DEP, PEMA, FEMA	Short-term	N/A
7	Have designated NFIP Floodplain Administrator (FPA) become a Certified Floodplain Manager through the ASFPM and/or pursue relevant continuing education training such as FEMA Benefit-Cost Analysis.	Local Plans and Regulations	Flood, Windstorm/ Tornado, Winter Storm	High	Low	Municipal Budget	NFIP Floodplain Administrator	Short-term (DOF)	N/A
8	Participate in the Community Rating System (CRS) to further manage flood risk and reduce flood insurance premiums for NFIP policyholders. This shall start with the submission to FEMA-DHS of a Letter of Intent to join CRS, followed by the completion and submission of an application to the program once the community's current compliance with the NFIP is established.	Local Plans and Regulations	Flood, Windstorm/ Tornado, Winter Storm	Medium	Low	Municipal Budget	NFIP Floodplain Administrator with support from PADEP, PEMA, FEMA	Short-term	N/A

2018 Mitigation Action Plan – continued

Mitigation Action		Mitigation Technique Category	Hazard(s) Addressed	Priority (H / M / L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
9	Obtain and archive elevation certificates for NFIP compliance.	Local Plans and Regulations	Flood, Windstorm/ Tornado, Winter Storm	High	Low	Municipal Budget	NFIP Floodplain Administrator	Ongoing	N/A
10	Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0	All Categories	All Hazards	High	Low – High (for 5-year update)	Municipal Budget, possibly FEMA Mitigation Grant Funding for 5-year update	Municipality (via mitigation planning point of contacts) with support from Planning Partners (through their Points of Contact), PEMA	Ongoing	New & Existing
11	Complete the ongoing updates of the Comprehensive Emergency Management Plans.	Local Plans and Regulations	All Hazards	High	Low	Municipal Budget	Municipality with support from PEMA	Ongoing	New & Existing
12	Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations.	All Categories	All Hazards	High	Low	Municipal Budget	Municipality with support from Surrounding municipalities and County	Ongoing	New & Existing
13	Develop and maintain capabilities to process FEMA/PEMA paperwork after disasters; qualified damage assessment personnel – Improve post-disaster capabilities – damage assessment; FEMA/PEMA paperwork compilation, submissions, record-keeping	Education and Awareness	All Hazards	Medium	Medium	Municipal Budget	Municipality with support from County, PEMA, FEMA	Short-term	N/A

2018 Mitigation Action Plan – continued

Mitigation Action		Mitigation Technique Category	Hazard(s) Addressed	Priority (H / M / L)	Estimated Cost	Potential Funding	Lead Agency / Department	Implementation Schedule	Applies to New and / or Existing Structures
14	Work with regional agencies (i.e. County and PEMA) to help develop damage assessment capabilities at the local level through such things as training programs, certification of qualified individuals (e.g. Code officials, floodplain managers, engineers).	Education and Awareness	All Hazards	Medium	Medium	Municipal Budget, FEMA HMA grant programs	Municipality with support from County, PEMA	Short-, long-term (DOF)	N/A
15	Install generator to the new municipal building site. The backup generator site at the new municipal building has been stubbed for natural gas and electrical service. The backup generator will provide electrical service to the municipal offices, volunteer fire department, and public works department during times of power outages.	Structure and Infrastructure	All Hazards	High	Medium	Borough budget/ grants	Borough	2019	Existing
16	Replace storm water pipes adjacent to Keystone Park Pavilion. Multi-access driveway with water drainage pipe does not carry significant water flows. The site is prone to flooding and overtopping, which has caused significant damage to the Park Pavilion in previous mitigation cycles.	Structure and Infrastructure	Flood	Medium	Medium	Borough budget/ grants	Borough	2019	Existing
17	Work to minimize tree/electric line conflicts with secondary service lines. Primary lines are/should be the responsibility of electric service provider. Borough has completed project like this along E. Main Street (from Walnut to Chestnut Streets) and Green Street.	Structure and Infrastructure	Windstorm/ Tornado, Winter Storm, Utility Interruption	Medium	\$3,000 to \$7,000 annually	Borough General Fund	Public Works/Private - Independent Tree Service Contractors	Spring and/or fall of each year	New & Existing

Notes:**Estimated Costs:**

- Where actual project costs have been reasonable 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 reappropriation 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.

Potential Funding (FEMA HMA):

- **BRIC** = Building Resilient Infrastructure and Communities
- **FMA** = Flood Mitigation Assistance Grant Program
- **HMGP** = Hazard Mitigation Grant Program
- **HSGP** = Homeland Security Grant Program
- **EMPG** = Emergency Management Performance Grant

Implementation Schedule:

- **Short Term** = 1 to 5 years
- **Long Term** = 5 years or greater
- **DOF** = Depending on Funding

Applies to New and/or Existing Structures:

- **N/A** = Not Applicable