

## Lower Mount Bethel Township, Northampton County Annex

### Hazard Mitigation Plan Points-of-Contact

#### Primary:

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#### Alternate:

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Township Engineer  
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### Municipal Profile

Lower Mount Bethel Township is a rural township located in the northeastern part of Northampton County along the Delaware River. It encompasses an area of 24.7 square miles, and has a population of 3,228 (2000 Census). The township is bordered by the Delaware River and state of New Jersey to the south and east; Upper Mount Bethel Township (Northampton County) to the northeast; Washington Township (Northampton County) to the northwest; and Plainfield Township and Forks Township (both in Northampton County) to the southwest.

Lower Mount Bethel has approximately 49 linear miles of streams, including 8.5 miles of frontage on the lower Delaware River. In addition to direct drainage into the Delaware River, there are six sub-watersheds in the township: Martins / Jacoby Creek watershed, Oughoughton Creek sub-watershed, Martins Creek, Mud Run sub-watershed, and two intermittent streams. All watersheds in the township are drained by the Delaware River, which forms its eastern and southern boundary and separates it from New Jersey. Martins Creek, the most significant in the township, collects from and flows through the southwestern part of the township before emptying to the Delaware near the southern boundary of the township.

Route 611 crosses the township north-south on its path between Portland and Easton. SR 1017 known as Richmond Road runs north-south in the northeast of the township. The primary east-west route runs from lower west to upper east through the township, beginning as SR 1002 / Uhler Road, becoming Front Street, and then SR 611 / N. Delaware Drive. SR 1004 / Martins Creek-Belvidere Highway crosses the Delaware River to New Jersey at the Riverton-Belvidere Bridge.

## 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.

Jennifer W. Smethers, Township Manager/EMC  
Role: Delegate

Justin Coyle, Floodplain Administrator  
Role: Documentation / Input Alternate

Jeff Larrison, Emergency Management  
Role: Input

John Mauser, Special Projects  
Role: Advisory

Pat McInerney, Planning Commission Chair  
Role: Advisory

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.

Talen Energy and Ardent Mills are major employers in the area.

Haines and Kibblehouse (H&K Group) – transportation, construction, demolition, emergency response

Allstate Septic – pumping, portable restrooms, etc.

Palmeri Group – transportation, excavation & hauling, water hauling

New Enterprise Stone and Lime

Delaware Quarries

Hazard Mitigation coordination meetings are anticipated between community stakeholders and the Township.

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.

Lower Mount Bethel Township will provide information regarding hazard mitigation on the Township website along with a PDF copy of the most recent iteration of the floodplain map.

## Compliance with the National Flood Insurance Program (NFIP)

Topic	Identify source of information, if different from the one listed.	Additional Comments
<b>1. Staff Resources</b>		
Is the Community Floodplain Administrator (FPA) or NFIP Coordinator certified?	Community FPA	No
Is floodplain management an auxiliary function?	Community FPA	Yes
Provide an explanation of NFIP administration services (e.g., permit review, GGIS, education or outreach, inspections, engineering capability)	Community FPA	NFIP administration services currently include: permit review, GIS mapping, field inspections and engineering review.
What are the barriers to running an effective NFIP program in the community, if any?	Community FPA	We are not aware of any barriers in place that would hinder an effective NFIP program in the community.
<b>2. Compliance History</b>		
Is the community in good standing with the NFIP?	State NFIP Coordinator, FEMA NFIP Specialist, or community records	Yes
Are there any outstanding compliance issues (i.e., current violations)?		No
When was the most recent Community Assistance Visits (CAV) or Community Assistance Contact (CAC)?		Unknown
Is a CAV or CAC scheduled or needed?		No
<b>3. Regulation</b>		
When did the community enter the NFIP?	NFIP Community Status Book	Unknown
Are the Flood Insurance Rate Maps (FIRMs) digital or paper? How are residents assisted with mapping?	Community FPA	Township Flood Insurance Rate Maps (FIRM's) are digital. The Township provides mapping assistance to any resident with property that requires it.
Do floodplain regulations meet or exceed FEMA or State minimum requirements? If so, in what ways?	Community FPA	The floodplain requirements currently in place meet FEMA requirements.
Describe the permitting process	Community FPA, State, FEMA NFIP	The Floodplain Building Permit application first needs to be completed by the applicant. It is then reviewed by the Floodplain Administrator for compliance with the floodplain ordinance and NFIP.

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

Topic	Identify source of information, if different from the one listed.	Additional Comments
<b>4. Insurance Summary</b>		
How many NFIP policies are in the community? What is the total premium and coverage?	State NFIP Coordinator or FEMA NFIP Specialist	Unknown
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	Unknown
How many structures are exposed to flood risk within the community?	Community FPA or GIS Analyst	The Township is currently updating their GIS database to include comprehensive floodplain data. This data will be used to determine the number of structures in the community exposed to flood risk.
Describe any areas of flood risk with limited NFIP policy coverage	Community FPA or FEMA Insurance Specialist	Unknown
<b>5. Community Rating System (CRS)</b>		
Does the community participate in CRS?	Community FPA, State, or FEMA NFIP	No
If so, what is the community's CRS Class Ranking?	Flood Insurance Manual ( <a href="http://www.fema.gov/floodinsurancemanual.gov">http://www.fema.gov/floodinsurancemanual.gov</a> )	N/A – The community does not participate in CRS.
What categories and activities provide CRS points and how can the Class be improved?		N/A – The community does not participate in CRS.
Does the plan include CRS planning requirements?	Community FPA, FEMA CRS Coordinator, or ISO representative	N/A – The community does not participate in CRS.

**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.

There are no concentrations of vulnerable populations located in Lower Mount Bethel Township to our knowledge.

## **Community Assets – *continued***

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

There are no venues within Lower Mount Bethel Township that would draw large groups of people.

### **2. Economy**

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

Talen Energy (formerly PPL Electric) and Ardent Mills are the only two major employers located within the Township.

They are part of the energy and food production sectors, respectively.

Haines and Kibblehouse (H&K Group) – transportation, construction, demolition, emergency response

Allstate Septic – pumping, portable restrooms, etc.

Palmeri Group – transportation, excavation & hauling, water hauling

New Enterprise Stone and Lime

Delaware Quarries

### **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.

There are a number of riparian areas located within the Township that are capable of providing protective functions to reduce the magnitude of hazardous events.

### **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.

There are a number of properties along the Delaware River, Martins Creek and Mud Run that could be considered vulnerable to hazards based on their locations.

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

Talen Energy is the only public utility in the Township and provides electricity.

A UGI gas pipeline runs through the township and supplies a large portion of New Jersey.

**Community Assets – continued**

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

There are no high potential loss facilities located within the Township.

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

There are no critical facilities located within the Township.

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

There are no notable cultural / historic resources located within the Township.

**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	2007	X	Planning Commission, Engineering	N	No	No		2021, (UD) Slate Belt Committee
	Capital Improvement Plan			X		N	No	No		
	Economic Development Plan									
	Continuity of Operations Plan									
	Stormwater Management Plan / Ordinance	X	2014		Engineering	S	Yes	Yes		
	Open Space Management Plan (or Parks/Rec., Greenways Plan)	X	2010		Planning Commission, Zoning, Engineering	S	No	No		
	Natural Resource Protection Plan	X			Planning Commission	S	No	No		Zoning Ordinance
	Transportation Plan	X			Planning Commission, Engineering	S	No	No		Part of the Comprehensive 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									
	Floodplain Management Plan	X	2014		Floodplain Administrator	S	Yes	Yes		
	Farmland Preservation	X	2010		Planning Commission & Zoning	S	No	No		CAPZO Ordinance
	Evacuation Plan									
	Disaster Recovery Plan									
	Hazard Mitigation Plan	X	11/2018		X	S	No	N/A		To be updated in 2018
	Emergency Operations Plan	X	9/2020		Administration	S	+	Yes		
	Zoning Regulations	X	1971	X	Administration / Planning Commission	S	No	No		2021, (UD) Under Development
	Floodplain Regulations	X	2014		Floodplain Administrator	S	Yes	Yes		
	NFIP Participation	X	2014			S	Yes	Yes		
	Building Code	X	2004		Building Code Official	S	No	No		
	Fire Code	X	2004		Building Code Official	S	No	No		
Other										

**Capability Assessment – *continued***

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



**Capability Assessment – continued**

Capability		Yes	No	Department / Agency	Change since 2013 Plan? + Positive - Negative	How can these capabilities be expanded and improved to reduce risk?	Additional Comments
<b>3. Financial Resources</b>	Capital improvement programming	X		Administration	No		
	Community Development Block Grants (CDBG)	X		Administration	No		
	Special purposes taxes	X		Administration	No		
	Gas / Electricity utility fees		X				
	Water / Sewer fees		X				
	Stormwater utility fees		X				
	Development impact fees		X				
	General obligation, revenue, and / or special tax bonds		X				
	Partnering arrangements or intergovernmental agreements	X		Administration	No		
	Other						

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
<b>4. Education &amp; Outreach</b>	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		Board of Supervisors, Administration, Planning & Engineering	No		
	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		Environmental Advisory Committee, EMC	No		
	Other						

**Capability Assessment – continued**

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		No change	
	Administrative and Technical			X	No change	
	Financial					
	Education and Outreach		X		No change	

**Known or Anticipated Future Development / Redevelopment**

Development / Property Name	Type of Development	Number of Structures	Location	Known Hazard Zone	Description / Status
No record of future development	N/A	N/A	N/A	N/A	N/A

**Natural & Non-Natural Event History Specific to Lower Mount Bethel Township**

Type of Event and Date(s)	FEMA Disaster # (if applicable)	Local Damage(s) or Loss(es)
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	
<b>1</b>	<p>Retrofit structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority.</p> <p>Phase 1: Identify appropriate candidates for retrofitting based on cost-effectiveness versus relocation.</p> <p>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.</p>			X	X		<p>A number of hazard prone areas within the municipality were identified (Phase 1) &amp; addressed (Phase 2):</p> <ol style="list-style-type: none"> <li>1. Along Little Creek Road, north of SR 611 - In 2008, the roadway was repaired and the streambank was stabilized and fortified against future damage.</li> <li>2. Along the roadway adjacent to Mud Run Creek - The roadway was relocated and repaired.</li> <li>3. Properties adjacent to the Delaware River along Del Haven Road, Foul Rift Road, Depues Ferry Road, Belvidere-Martin's Creek Highway at Riverton Road, and the 1st Terrace of Hillendale Road - Retrofitting discussions are ongoing.</li> <li>4. Properties adjacent to Martin's Creek along Ann Street - Retrofitting discussions are ongoing.</li> <li>5. Properties adjacent to the Little Martin's Creek along Lower Little Creek Road - Retrofitting discussions are ongoing.</li> <li>6. Culverts near the intersection of Upper Mud Run Road and Richard Garr Road - Culverts were installed, replaced and repaired as needed in 2008.</li> <li>7. Mudslide risk near the intersection of SR 611 and Ann Street - Soil stabilization was completed in order to prevent future damage from mudslides.</li> <li>8. The roadway and streambed along Alpha Avenue - The roadway and streambed were repaired in 2012. Added X to Completed because of completed projects listed above; kept X in Continuous because action is also ongoing. Action carried through to 2018 Action Plan.</li> </ol>

**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	
2	<p>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.</p> <p>Phase 1: Identify appropriate candidates for relocation based on cost effectiveness versus retrofitting.</p> <p>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.</p>					X	<p>The Township does not have plans to purchase or relocate any structures located in hazard-prone areas at this time.</p> <p>Moved X from Completed to Discontinued because no projects were completed. Action carried through to the 2018 Action Plan.</p>
3	<p>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.</p> <p>Further, continue to meet and/or exceed the minimum NFIP standards and criteria through the following NFIP- related continued compliance actions identified below.</p>			X			<p>The Township has maintained compliance with and good standing in the NFIP. They adopted the floodplain management plan with their revised flood management ordinance in 2014.</p>
4	<p>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:</p> <ul style="list-style-type: none"> <li>- Provide and maintain links to the HMP website, and regularly post notices on the County/municipal homepage(s) referencing the HMP webpages.</li> <li>- 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.</li> <li>- 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.</li> <li>- Work with neighborhood associations, civic and business groups to disseminate information on flood insurance and the availability of mitigation grant funding.</li> </ul>		X				<p>The Township is in the process of updating their website to include links to pertinent Hazard Mitigation information and updated floodplain maps.</p>

**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	
5	Begin the process to adopt higher regulatory standards to manage flood risk (i.e. increased freeboard, cumulative substantial damage/improvements).		X		X		The Township last adopted higher regulatory standards to manage flood risk in their floodplain management ordinance revised in 2014. The process is ongoing. Added X to Completed because ordinance revised in 2014; action carried through to the 2018 Action Plan.
6	Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed.		X				It has been determined that the Township is not in need of a Community Assistance Visit at this time. <i>LVPC: Changed from Completed to In Progress</i>
7	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				The Township appointed Justin Coyle, Township Engineer, as the NFIP Floodplain Administrator. Justin is pursuing to become a Certified Floodplain Manager.
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.	X					Unknown
9	Archive elevation certificates	X					Unknown
10	Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0			X			The Township, in coordination with the appointed Floodplain Administrator, are working to continue to support the implementation, monitoring, maintenance, and updating of this plan.
11	Complete the ongoing updates of the Comprehensive Emergency Management Plans				X		The Township's Emergency Management Plan was last updated in March 2017. Action carried through to the 2018 Action Plan.

**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	
12	Create/enhance/ maintain mutual aid agreements with neighboring communities for continuity of operations.		X				The Township is working towards the enhancement of mutual aid agreements with surrounding fire, police and emergency response entities to ensure continuity of operations.
13	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		The Township engineer is capable of filling out FEMA/PEMA paperwork and compiling submissions if necessary. Qualified damage assessment personnel can be contracted if required. Action carried through to the 2018 Action Plan.
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).		X				As discussed in Part 7, the Township is working with regional agencies to train and certify personnel.

**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 & Infrastructure	Flood, Windstorm/ Tornado, Winter Storm, Earthquake	Medium-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 & Infrastructure	Flood	Medium-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
<p><b>3</b> 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.</p>	<p>Local plans &amp; Regulations</p>	<p>Flood, Windstorm/ Tornado, Winter Storm</p>	<p>High</p>	<p>Low - Medium</p>	<p>Local Budget</p>	<p>Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from PEMA, ISO FEMA</p>	<p>Ongoing</p>	<p>New &amp; Existing</p>



**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><b>4</b> 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:</p> <ul style="list-style-type: none"> <li>- Provide and maintain links to the HMP website, and regularly post notices on the County/municipal homepage(s) referencing the HMP webpages.</li> <li>- 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.</li> <li>- 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.</li> <li>- Work with neighborhood associations, civic and business groups to disseminate information on flood insurance and the availability of mitigation grant funding.</li> </ul>	Education & 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
<b>5</b>	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 & Regulations	Flood, Windstorm/ Tornado, Winter Storm	High	Low	Municipal Budget	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from PEMA, FEMA	Short-term	New & Existing
<b>6</b>	Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed.	Local plans & Regulations	Flood, Windstorm/ Tornado, Winter Storm	Medium	Low	Municipal Budget	NFIP Floodplain Administrator with support from PA DEP, PEMA, FEMA	Short-term (year 1)	N/A
<b>7</b>	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 & Regulations	Flood, Windstorm/ Tornado, Winter Storm	High	Low	Municipal Budget	NFIP Floodplain Administrator	Short-term (depending on funding)	N/A
<b>8</b>	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 & Regulations	Flood, Windstorm/ Tornado, Winter Storm	Medium	Low	Municipal Budget	NFIP Floodplain Administrator with support from PA DEP, PEMA, FEMA	Short-term (year 1)	NA

**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 & Regulations	Flood, Windstorm/ Tornado, Winter Storm	High	Low	Local Budget	NFIP Floodplain Administrator	Ongoing	NA
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)	Local 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 & Regulations	All Hazards	High	Low	Local 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	Local Budget	Municipality w/ 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 & Awareness	All Hazards	Medium	Medium	Local 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 & Awareness	All Hazards	Medium	Medium	Local budget, FEMA HMA grant programs	Municipality with support from County, PEMA	Short-, long-term (depending on funding)	N/A
15	Coordinate with the County Emergency Management Agency and PA Department of Health, which is responsible for setting up points of distribution and providers for immunizations.	Local plans & Regulations	Pandemic and Infectious Disease	Medium	Low	Municipal Budget	Municipality, working with County EMA and PA Department of Health	Ongoing	N/A
16	Devise an employee vaccination and immunization plan to prevent an outbreak within the municipal employee ranks.	Local plans & Regulations	Pandemic and Infectious Disease	Medium	Low	Municipal Budget	Municipality	Short-term	N/A
17	Devise a municipal continuity of operations plan to keep essential services running in the event that a significant portion of the workforce is affected.	Local plans & Regulations	Pandemic and Infectious Disease	Medium	Low	Municipal Budget	Municipality	Short-term	N/A
18	Devise a public education and outreach plan regarding disease prevention.	Education & Awareness	Pandemic and Infectious Disease	Medium	Low	Municipal Budget	Municipality	Ongoing	N/A
19	Provide education and outreach to residents regarding how to prevent the spread of invasive species, including quarantine procedures.	Education & Awareness	Invasive Species	High	Low	Municipal Budget	Municipality	Ongoing	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
20	Develop a neighborhood cleanup plan designed to remove discarded tires, trash and other items in which standing water can form.	Education & Awareness	Invasive Species	High	Low	Municipal Budget	Municipality	Short-term	N/A
21	Provide training and education for first responders to ensure effective emergency care.	Local plans & Regulations	Drug Overdose Crisis	High	Low	Municipal Budget	Municipality	Ongoing	N/A
22	Provide education and outreach, especially in K-12, regarding drug abuse prevention.	Education & Awareness	Drug Overdose Crisis	High	Low	Municipal Budget	Municipality/ School District	Ongoing	N/A

**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 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.

**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