

# Lower Saucon Township, Northampton County Annex

## Hazard Mitigation Plan Points-of-Contact

### Primary:

Leslie Huhn  
Township Manager  
3700 Old Philadelphia Road, Bethlehem, PA 18015  
610-865-3291  
manager@lowersaucontownship.org

### Alternate:

Bryan Evans  
Emergency Management Coordinator  
3700 Old Philadelphia Road, Bethlehem, PA 18015  
610-865-3291  
emergmt@lowersaucontownship.org

## Municipal Profile

Lower Saucon Township is a rural township located in the southern part of Northampton County, on the border with Bucks County. It encompasses an area of approximately 24.3 square miles, and has a population of 10,772 (2010 Census). The township is bordered by the City of Bethlehem to the north and northwest; Hellertown Borough (which is nearly surrounded by the township); Freemansburg Borough to the northwest; Bethlehem Township to the north; Easton to the northeast; Williams Township to the east; Durham Township and Springfield Township, both in Bucks County, to the south; Upper Saucon Township (Lehigh County) to the southwest; Salisbury Township (Lehigh County) to the west; and Fountain Hill (Lehigh County) to the northwest.

The Lehigh River forms the township's northern border with Bethlehem Township.

Interstate 78 passes east-west through the eastern and western parts of the township around Hellertown. Major north-south roads through the township include PA Route 378 in the western part of the township, PA Route 412 in the south-central part of the township, the PA Route 33 interchange in the northeastern corner, and Lower Saucon Road in the eastern part of the township.

## 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.

Leslie Huhn, Township Manager

Role:

Roger Rasich, Director of Public Works

Role:

Thomas H. Barndt, Chief of Police

Role: Input, Administration and Preparation

Bryan Evans, Emergency Management Coordinator

Role:

James S. Young, Zoning Officer

Role: Floodplain Administrator, Building Code Official

Brien Kocher, Township Engineer

Role:

**Municipal Participation – continued**

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.
  
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.

**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	Permit review, GIS mapping, ordinance enforcement
What are the barriers to running an effective NFIP program in the community, if any?	Community FPA	N/A
<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)?		2014
Is a CAV or CAC scheduled or needed?		N/A
<b>3. Regulation</b>		
When did the community enter the NFIP?	NFIP Community Status Book	1978
Are the Flood Insurance Rate Maps (FIRMs) digital or paper? How are residents assisted with mapping?	Community FPA	Digital and paper, available for inspection at township offices
Do floodplain regulations meet or exceed FEMA or State minimum requirements? If so, in what ways?	Community FPA	Meet
Describe the permitting process	Community FPA, State, FEMA NFIP	The zoning officer and township engineer reviews permits. The Zoning Hearing Board can grant relief.

**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	
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	Zone AE = 29; Zone A = 6
<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
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.

<p>Society Hill / 4-Season Condominium Communities Saucon Valley School District Black River Apartments</p>	<p>Weston Senior Living VNA – St. Luke’s Hospital Hospice LifePath Group Homes</p>
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- Types of visiting populations where large numbers of people are concentrated such as visitors for special events and students.

<p>Saucon Valley School District – Sports Events, Performances, etc. Saucon Valley Community Center – Sr. Program – Seidersville Hall Town Hall - Sports</p>	<p>Polk Valley Park – Sports Events Meadows Grove Banquet Facility</p>
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## Community Assets – *continued*

### 2. Economy

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

IESI Bethlehem Landfill  
Saucon Valley Square  
Creekside Marketplace

### 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.

Black River, Saucon Creek, & east branch of Saucon Creek Corridors (wide and meandering allow for dissipation of force and velocity).  
Hellertown Reservoir

### 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.

Meadows Grove Banquet Facility	Exxon Gas Station
Black River Apartments	Speedway Gas Station
Scenic View Apartments	Limited Access to Steel City

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

No wells or treatment plants  
Electric distribution system is vulnerable due to slopes, trees, etc. and adjacent roadways.

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

Hellertown Reservoir	Columbia Gas Substation
PPL Electric Substations	UGI LNG Storage Facility, Bethlehem (proposed)
IESI Bethlehem Landfill & Bethlehem Renewable Energy Gas-to-Energy Plant	

**Community Assets – continued**

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

Saucon Valley School Campus  
 Leithsville Fire Station  
 Se-Wy-Co Fire Station  
 Southeastern Fire Station

Steel City Fire Station  
 Lower Saucon Township Police Department  
 LifePath  
 Weston Senior Living

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

Town Hall Park  
 Polk Valley Park  
 Steel City Park  
 Southeastern Park  
 Bethlehem Park

Saucon Valley School District  
 Lehigh Mountaintop Campus  
 Michael Heller Homestead & Park  
 Lutz-Franklin Schoolhouse

**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	2009		Administration; Zoning	N				Joint Plan w/ Hellertown
	Capital Improvement Plan									
	Economic Development Plan									
	Continuity of Operations Plan									
	Stormwater Management Plan / Ordinance	X	2007		Zoning, Engineer	S				
	Open Space Management Plan (or Parks/Rec., Greenways Plan)	X	2006		Administration					Joint Plan w/ Upper Saucon
	Natural Resource Protection Plan	X	2011		Zoning					Part of Zoning Ordinance
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									
	Floodplain Management Plan	X	2014		Zoning	S				Based on County Model
	Farmland Preservation									
	Evacuation Plan									
	Disaster Recovery Plan									
	Hazard Mitigation Plan	X	11/2018		Administration	S		N/A		
	Emergency Operations Plan	X	11/2019							
	Zoning Regulations	X	2016		Zoning	N				
	Floodplain Regulations	X	2014		Zoning	S				
	NFIP Participation	X	2014		Zoning	S				
	Building Code	X	2017		Zoning	S				2015 ICC Series; Standard PA Uniform Construction Code
	Fire Code									
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				
2. Administrative & Technology	Planners (with land use / land development knowledge)	X		Zoning & Consultant	No		
	Planners or engineers (with natural and / or human-caused hazards knowledge)						
	Engineers or professionals trained in building and / or infrastructure construction practices (including building inspectors)						
	Emergency Manager	X		Emergency Management Coordinator	No		
	Floodplain administrator / manager	X		Zoning	No		
	Land surveyors		X				
	Staff familiar with the hazards of the community	X		Police, Public Works, Zoning	No		
	Personnel skilled in Geographical Information Systems (GIS) and / or FEMA's HAZUS program	X		Zoning, Public Works	No	Yes	
	Grant writers or fiscal staff to handle large / complex grants	X		Finance	No		
	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		Council; Administration	Yes	Appropriated additional funding toward emergency reserves
	Community Development Block Grants (CDBG)		X			
	Special purposes taxes	X		Council	Open Space	0.25 EIT  Purchasing of property that could benefit both Open Space & Hazard Mitigation
	Gas / Electricity utility fees		X			
	Water / Sewer fees		X			
	Stormwater utility fees		X			
	Development impact fees	X		Administration; Council	None- Council has not adopted policy	Can impose developer fees by Ordinance
	General obligation, revenue, and / or special tax bonds	X		Administration; Council	No need at this time	We do have borrowing base available if needed
	Partnering arrangements or intergovernmental agreements	X		Council of Governments	Hellertown Borough; Saucon Valley School District	Take point on developing Comprehensive Plan
Other						



**Capability Assessment – continued**

Capability	✓ Program ✓ Organization			Department / Agency	Change since 2013 Plan? + Positive - Negative	How can these capabilities be expanded and improved to reduce risk?	Additional Comments
		Yes	No				
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				Capitalize on social media and township newsletter for regular communication and reminders with the community.	
	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						N/A

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

**Known or Anticipated Future Development / Redevelopment**

<b>Development / Property Name</b>	<b>Type of Development</b>	<b>Number of Structures</b>	<b>Location</b>	<b>Known Hazard Zone</b>	<b>Description / Status</b>
Laurenna, LLC	Residential	3	1897 Meadows Road	N/A	Preliminary Plan <b>Recorded</b>
IESI Landfill Southeastern Realignment	Commercial	N/A	2335 Applebutter Road		Final Approval 2017
At The Helm	Residential	6	2650 Redington Road	N/A	Final Approval <b>Recorded</b>
Long Ridge	Residential	20			<b>Final Approval Recorded 2021</b>
Hills at Polk Valley	Residential	3	Polk Valley Road	N/A	Final Approval
Majestic Bethlehem	Commercial	N/A	Commerce Center Boulevard		Final Approval <b>Recorded</b>

**Natural & Non-Natural Event History Specific to Lower Saucon Township**

<b>Type of Event and Date(s)</b>	<b>FEMA Disaster # (if applicable)</b>	<b>Local Damage(s) or Loss(es)</b>
Snow event, January 23-24, 2018	DR-4267-PA	Township-wide historic snowfall - \$51,071.74
Pennsylvania COVID-19 Pandemic – 1/2020	DR-4506-PA	Emergency Protective measures to combat COVID-19 Pandemic.
<b>Remnants of Hurricane Ida</b>	<b>DR-4618-PA</b>	<b>Assistance to eligible individuals and families affected by this disaster.</b>

### 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	Lower Saucon Road culvert replacement at Alpine Drive		X				
2	Reading Drive streambank stabilization at Saucon Creek east of Bingen Road				X		
3	Meadows Road streambank stabilization west of State Route 412				X		Action not carried through to the 2018 Action Plan.
4	Redington Road East - streambank stabilization		X				
5	Black River Road channel capacity improvements east of State Route 378		X				
6	Riverside Drive reconstruction between Freemansburg Bridge and Lower Saucon Road					X	State roadway Action not carried through to the 2018 Action Plan.
7	Reading Drive culvert replacement at Creek View Drive		X				
8	Apples Church Road culvert repair west of Waldheim Road				X		Action not carried through to the 2018 Action Plan.
9	Williams Church Road storm sewer improvements northeast of Crestline Drive				X		Action not carried through to the 2018 Action Plan.
10	Wassergass Road storm sewer improvements west of Wilhelm Road		X				
11	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.		X				
12	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.		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	
13	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			
14	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			
15	Begin the process to adopt higher regulatory standards to manage flood risk (i.e. increased freeboard, cumulative substantial damage/improvements).		X				
16	Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed.		X				
17	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				

**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	
18	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				
19	Archive elevation certificates			X			
20	Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0			X			
21	Complete the ongoing updates of the Comprehensive Emergency Management Plans			X			
22	Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations.			X			
23	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			
24	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
<b>1</b>	Lower Saucon Road culvert replacement at Alpine Drive	Structure and Infrastructure	Flood	Medium	Medium	Municipal Budget; FEMA Mitigation Grant Programs	Municipal Engineering and Department of Public Works	Long-term (depending on funding)	Existing
<b>2</b>	Reading Drive streambank stabilization at Saucon Creek east of Bingen Road	Structure and Infrastructure, Natural Systems Protection	Flood	High	High	Municipal Budget; FEMA Mitigation Grant Programs	Municipal Engineering and Department of Public Works	Long-term (depending on funding)	Existing
<b>3</b>	Redington Road East - streambank stabilization	Structure and Infrastructure, Natural Systems Protection	Flood	High	High	Municipal Budget; FEMA Mitigation Grant Programs	Municipal Engineering and Department of Public Works	Long-term (depending on funding)	Existing
<b>4</b>	Black River Road channel capacity improvements east of State Route 378	Structure and Infrastructure	Flood	Medium	Medium	Municipal Budget; FEMA Mitigation Grant Programs	Municipal Engineering and Department of Public Works	Long-term (depending on funding)	Existing
<b>5</b>	Reading Drive culvert replacement at Creek View Drive	Structure and Infrastructure	Flood	Medium	Medium	Municipal Budget; FEMA Mitigation Grant Programs	Municipal Engineering and Department of Public Works	Long-term (depending on funding)	Existing
<b>6</b>	Wassergass Road storm sewer improvements west of Wilhelm Road	Structure and Infrastructure	Flood	Medium	Medium	Municipal Budget; FEMA Mitigation Grant Programs	Municipal Engineering and Department of Public Works	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
<b>7</b>	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	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
<b>8</b>	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	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**

	<b>Mitigation Action</b>	<b>Mitigation Technique Category</b>	<b>Hazard(s) Addressed</b>	<b>Priority (H / M / L)</b>	<b>Estimated Cost</b>	<b>Potential Funding</b>	<b>Lead Agency / Department</b>	<b>Implementation Schedule</b>	<b>Applies to New and / or Existing Structures</b>
9	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 & Regulations	Flood	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><b>10</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: 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>	<p>Education and Awareness</p>	<p>All Hazards</p>	<p>High</p>	<p>Low-Medium</p>	<p>Municipal Budget</p>	<p>Municipality with support from Planning Partners, PEMA, FEMA</p>	<p>Short-term</p>	<p>N/A</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
11	Begin and/or continue the process to adopt higher regulatory standards to manage flood risk (i.e. increased freeboard, cumulative substantial damage/improvements).	Local Plans and Regulations	Flood	High	Low	Municipal Budget	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from PEMA, FEMA	Short-term	New & Existing
12	Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed.	Local Plans and Regulations	Flood	Medium	Low	Municipal Budget	NFIP Floodplain Administrator with support from PADEP, PEMA, FEMA	Short-term	N/A
13	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	High	Low	Municipal Budget	NFIP Floodplain Administrator	Short-term (depending on funding)	N/A
14	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	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
15	Obtain and archive elevation certificates for NFIP compliance.	Local Plans and Regulations	Flood	High	Low	Municipal Budget	NFIP Floodplain Administrator	Ongoing	N/A
16	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
17	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
18	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
19	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
20	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 (depending on funding)	N/A
21	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 and Regulations	Pandemic and Infectious Disease	Medium	Low	Municipal Budget	Municipality, working with County EMA and PA Department of Health	Ongoing	N/A
22	Devise an employee vaccination and immunization plan to prevent an outbreak within the municipal employee ranks.	Local Plans and Regulations	Pandemic and Infectious Disease	Medium	Low	Municipal Budget	Municipality	Short-term	N/A
23	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 and Regulations	Pandemic and Infectious Disease	Medium	Low	Municipal Budget	Municipality	Short-term	N/A
24	Devise a public education and outreach plan regarding disease prevention.	Education and Awareness	Pandemic and Infectious Disease	Medium	Low	Municipal Budget	Municipality	Ongoing	N/A
25	Provide education and outreach to residents regarding how to prevent the spread of invasive species, including quarantine procedures.	Education and 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
26	Develop a neighborhood cleanup plan designed to remove discarded tires, trash and other items in which standing water can form.	Education and Awareness	Invasive Species	High	Low	Municipal Budget	Municipality	Short-term	N/A
27	Provide training and education for first responders to ensure effective emergency care.	Local Plans and Regulations	Drug Overdose Crisis	High	Low	Municipal Budget	Municipality	Ongoing	N/A
28	Provide education and outreach, especially in K-12, regarding drug abuse prevention.	Education and 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