

## Lower Nazareth Township, Northampton County Annex

### Hazard Mitigation Plan Points-of-Contact

#### Primary:

Lori Seese  
Planning & Zoning Administrator  
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#### Alternate:

Lori Stauffer  
Township Manager  
623 Municipal Drive, Nazareth, PA 18064  
610-759-7434, Extension: 1002  
lstauffer@lowernazareth.com

### Municipal Profile

Lower Nazareth Township is a suburban / rural township located in the central portion of Northampton County. It encompasses an area of 13.4 square miles, and has an approximate population of 5,674 (2010 Census). Upper Nazareth Township and Nazareth Borough border the township to the north, Palmer Township to the east, Bethlehem Township to the south, Hanover Township to the southwest, and East Allen Township to the west.

The township is drained by the Bushkill Creek, which drains the northeast corner of the township, and by the Monocacy Creek, which runs from Upper Nazareth Township to Bethlehem Township in the western part of the township.

PA Route 33 travels south-north in the eastern part of the township, from its interchange with US Route 22 in Bethlehem Township to Stockertown and beyond. It is intersected by PA Route 248 (Nazareth Highway), travelling from Nazareth in the north to Easton to the east. PA Route 191 (Nazareth – Bethlehem Pike) also travels through the township from Nazareth, running northeast-southwest between Nazareth and Bethlehem. PA Route 946 (Daniels Road) begins in the center of the township, at the intersection of PA Route 191 and Newburg Road, and travels north into Upper Nazareth Township. Newburg Road enters the township from the western part of Upper Nazareth Township and travels southeast into Palmer Township. Hanoverville Road / Hecktown Road traverses the southern side of the township, connecting Hanover Township and Palmer 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.

Lori Stauffer, Township Manager  
Role: Input and Administration

Albert Kortze, P.E., Township Engineer  
Role: Input, Administration and Preparation

Hugh Harris, Emergency Management Coordinator  
Role: Input

William Kocher, Public Works Director  
Role: Input, Field Survey & Execution

Todd Beruta, Public Works & Operations Coordinator  
Role: Input, Field Survey & Execution

Jeffrey Seip, Hecktown Volunteer Fire Company Fire Chief  
Role: Input

Lori Seese, Planning & Zoning Administrator / Floodplain Administrator  
Role: Input and Administration

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.

Unknown

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 Township communicates with the public on our website and Facebook page, along with our bi-annual newsletter. We will continue to use these methods of communication going forward.

## 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	Permits are reviewed at the time of application to determine if a property is in a flood zone. Residents are directed to the NFIP website to create their own map or provided a paper copy as requested. GIS shape files are used internally to assess a property's location.
What are the barriers to running an effective NFIP program in the community, if any?	Community FPA	Time and resources
<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)?		March 2022
Is a CAV or CAC scheduled or needed?		No
<b>3. Regulation</b>		
When did the community enter the NFIP?	NFIP Community Status Book	June 18, 1971
Are the Flood Insurance Rate Maps (FIRMs) digital or paper? How are residents assisted with mapping?	Community FPA	We have both. Residents are directed to the NFIP website to create their own map or provided a paper copy as requested.
Do floodplain regulations meet or exceed FEMA or State minimum requirements? If so, in what ways?	Community FPA	Meet the requirements.
Describe the permitting process	Community FPA, State, FEMA NFIP	Properties are reviewed for their location when a permit application is made. If a property is located in a flood zone, it is evaluated according to our adopted ordinance.

### 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	
<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> )	
What categories and activities provide CRS points and how can the Class be improved?		
Does the plan include CRS planning requirements?	Community FPA, FEMA CRS Coordinator, or ISO representative	

### 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.
  - Numerous group homes throughout the township.
- Types of visiting populations where large numbers of people are concentrated such as visitors for special events and students.
  - Dutch Springs
  - Lower Nazareth Elementary School

## 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.

Shopping centers – Northampton Crossings, Lower Nazareth Commons, Nazareth Crossings, Giant Shopping Center

Warehouses – UPS, Central Garden & Pet, Walgreens, B&G Foods, BMW, C&S Wholesale Grocers, StitchFix, Barry Callebaut and Wasserstrom.

Auto Dealerships – Kelly Nissan, Koch 33, Brown Daub Chevy, Brown Daub Jeep, Brown Daub Volvo, Nazareth Ford, Star Auto, **CarMax**

Phillips Feed, Everson Tesla, Kitchen Magic, **Keystone Foods** and **Victaulic**

### 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.

Lower Nazareth Rod and Gun Club

Hahn's Meadow Park, Georgetown Park and Surrey Glen Park

### 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.

Any structures within the floodplain of the Monocacy Creek.

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

Cell towers – Hecktown Road, Nazareth Borough Municipal Authority, Lower Nazareth Township property

Energy pipelines through the township

Nazareth Borough Municipal Authority

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

N/A

**Community Assets – *continued***

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

Lower Nazareth Elementary School

Northwood Medical Arts

Northwood Surgery Center

**Lehigh Valley Health Network – Hecktown Oaks Hospital**

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

Lower Nazareth Township (former) Municipal Building and Park

Surrey Glen Park

Lower Nazareth Rod & Gun Club

Louise Moore Park

### 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	2022	X	Township, Nazareth Council of Governments, Lehigh Valley Planning Commission	S	P			
	Capital Improvement Plan									
	Economic Development Plan									
	Continuity of Operations Plan									
	Stormwater Management Plan / Ordinance	X	2007	X	Township, Lehigh Valley Planning Commission	S	P			
	Open Space Management Plan (or Parks/Rec., Greenways Plan)	X	2020		Township	S				
	Natural Resource Protection Plan									
	Transportation Plan	X	2003		Township					
	Historic Preservation Plan									
	Floodplain Management Plan	X	2014		Township	S	P			
	Farmland Preservation	X	1995		Township					
Evacuation 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	Disaster Recovery Plan									
	Hazard Mitigation Plan	X	10/2018				N/A			
	Emergency Operations Plan	X	2/2021		Township	S	P			
	Zoning Regulations	X	2016		Township	S	P			
	Floodplain Regulations	X	2014		Township	S	P			
	NFIP Participation	X	1971		Township					
	Building Code	X	2004		Township	S	P			
	Fire Code	X	2004		Township	S	P			
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		Township Engineer (Keystone Consulting Engineers)	N		
	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)	X		Barry Isett & Associates			
	Emergency Manager	X		Lower Nazareth Township	Y		
	Floodplain administrator / manager	X		Lower Nazareth Township Planning & Zoning	N		
	Land surveyors	X		Township Engineer (Keystone Consulting Engineers)	N		
	Staff familiar with the hazards of the community	X		Lower Nazareth Township Public Works and Planning & Zoning	N		
	Personnel skilled in Geographical Information Systems (GIS) and / or FEMA's HAZUS program	X		Township Engineer (Keystone Consulting Engineers), Lower Nazareth Township Planning & Zoning	N		
	Grant writers or fiscal staff to handle large / complex grants	X		Township	Y		
	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				
<b>3. Financial Resources</b>	Capital improvement programming	X		Township	N	
	Community Development Block Grants (CDBG)		X			
	Special purposes taxes		X			
	Gas / Electricity utility fees		X			
	Water / Sewer fees	X		Lower Nazareth, Palmer & Bethlehem Townships	Y	
	Stormwater utility fees		X			
	Development impact fees	X		Township	N	
	General obligation, revenue, and / or special tax bonds		X			
	Partnering arrangements or intergovernmental agreements	X		Township, Nazareth Council of Governments, Colonial Regional Police Department	N	
	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		Township	N		
	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		N	
	Administrative and Technical			X	N	
	Financial		X			
	Education and Outreach		X		N	

### Known or Anticipated Future Development / Redevelopment

Development / Property Name	Type of Development	Number of Structures	Location	Known Hazard Zone	Description / Status
Colts Run South	Residential	30	Hecktown Road	Floodplain	Plan approved, not secured
Green Pond Estates	Residential	61	Green Pond Road	Some floodplain	Very preliminary
Vinart Auto Sales	Auto Sales	1	213 Commerce Park Drive		Approved land development plan
Liberty Properties	Mixture	Unknown	557 Nazareth Pike		Under appeal
LVTC III	Warehouse	1	4711 Hanoverville Road		Under Construction
Triple Net	Warehouse	1	4730 Hanoverville Road	Some floodplain	Under Construction
Caliber Collision	Auto Repair	1	4035 Jandy Boulevard		Under Construction
Kelly Nissan	Auto Service	1	3830 Easton-Nazareth Hwy		Under Construction
Estates at Meadow View	Apartments	88 apartments	730 Nazareth Pike		Land Development Approval

### Natural & Non-Natural Event History Specific to Lower Nazareth Township

Type of Event and Date(s)	FEMA Disaster # (if applicable)	Local Damage(s) or Loss(es)
Winter Storm Jonas, January 2016	DR-4267-PA	Labor, equipment and materials
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	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					
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.	X					
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.			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	<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				
5	Begin the process to adopt higher regulatory standards to manage flood risk (i.e. increased freeboard, cumulative substantial damage / improvements).	X					
6	Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed.	X					
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				
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				
9	Archive elevation certificates			X			
10	Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0			X			
11	Complete the ongoing updates of the Comprehensive Emergency Management Plans			X			
12	Create/enhance/ maintain mutual aid agreements with neighboring communities for continuity of operations.			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	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				
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			

**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	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
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 & Infrastructure	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>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
5	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 & Infrastructure	Flood	High	Low	Municipal Budget	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) w/ 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 & Infrastructure	Flood	Medium	Low	Municipal Budget	NFIP Floodplain Administrator with support from PADEP, 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 & Infrastructure	Flood	High	Low	Municipal Budget	NFIP Floodplain Administrator	Short-term (depending on funding)	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 FEMADHS 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 & Infrastructure	Flood	Medium	Low	Municipal Budget	NFIP Floodplain Administrator with support from PADEP, PEMA, FEMA	Short-term	N/A
9	Obtain and archive elevation certificates for NFIP compliance.	Local plans & Infrastructure	Flood	High	Low	Municipal Budget	NFIP Floodplain Administrator	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
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) w/ 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 & Infrastructure	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 & Awareness	All Hazards	Medium	Medium	Municipal Budget	Municipality with support from County, PEMA, FEMA	Short-term	N/A
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	Municipal Budget, FEMA HMA grant programs	Municipality with support from County, PEMA	Short-, long-term (depending on funding)	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	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 & Infrastructure	Pandemic and Infectious Disease	Medium	Low	Municipal Budget	Municipality, working with County EMA and PA Department of Health	Ongoing	N/A
16	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
17	Provide training and education for first responders to ensure effective emergency care.	Local plans & Infrastructure	Drug Overdose Crisis	High	Low	Municipal Budget	Municipality	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