

Hanover Township, Northampton County Annex

Hazard Mitigation Plan Points-of-Contact

Primary:

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Municipal Profile

Hanover Township is an urban township located in the west-central part of Northampton County, on the border with Lehigh County. It encompasses an area of approximately 6.7 square miles, and has a population of 10,866 (2010 Census). The township is bordered by East Allen Township to the north; Lower Nazareth Township to the northeast; Bethlehem Township to the east; Bethlehem City (Northampton County) to the southeast, Bethlehem City (Lehigh County) to the southwest, and Hanover Township (Lehigh County) to the west.

With the exception of a cutout for the Bethlehem Golf Course, the Monocacy Creek forms the township's southern border with Bethlehem Township and Bethlehem City, and serves as the major drainage waterway of the township. The Catasauqua Creek also drains a small portion of the township.

US Route 22 is the most-significant east-west roadway in the township, passing through the middle of the township. PA Route 512 is the major north-south highway, extending from its interchange with US Route 22 in the western part of the township north into East Allen Township. Jacksonville Road is another major north-south roadway, passing from the northern border with East Allen Township south, then southwest, into Bethlehem City (Lehigh County).

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.

Yvonne D. Kutz, Zoning Officer
Role: Zoning & Permitting

Vincent G. Milite, Public Works Director
Role: Public Works

John J. Finnigan, Jr., Township Manager
Role: Administration

Hanover Engineering, Municipal Engineer
Role: Administration & Support

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.

Hanover Township is part of the Colonial Regional Police Department, who in conjunctions with the Volunteer Fire and Ambulance companies provide the primary emergency management services. Businesses are primarily informed / notified during the planning and permitting phases of their building and occupancy.

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 maintains a website, including email notifications, issues seasonal newsletters and has incorporated digital signs for public awareness and information.

Compliance with the National Flood Insurance Program (NFIP)

| Topic | Identify source of information, if different from the one listed. | Additional Comments |
|---|--|---|
| 1. Staff Resources | | |
| Is the Community Floodplain Administrator (FPA) or NFIP Coordinator certified? | Community FPA | No |
| Is floodplain management an auxiliary function? | Community FPA | Yes |
| Provide an explanation of NFIP administration services (e.g., permit review, GIS, education or outreach, inspections, engineering capability) | Community FPA | Primarily handled by the Zoning Office and Municipal Engineer during the planning and permitting. |
| What are the barriers to running an effective NFIP program in the community, if any? | Community FPA | Public awareness and municipal resources. |
| 2. Compliance History | | |
| 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 |

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

| Topic | Identify source of information, if different from the one listed. | Additional Comments |
|---|---|---|
| 3. Regulation | | |
| When did the community enter the NFIP? | NFIP Community Status Book | Unknown |
| Are the Flood Insurance Rate Maps (FIRMs) digital or paper? How are residents assisted with mapping? | Community FPA | Both digital and hard copy |
| Do floodplain regulations meet or exceed FEMA or State minimum requirements? If so, in what ways? | Community FPA | The local flood plain ordinance was adopted after the most recent update. |
| Describe the permitting process | Community FPA, State, FEMA NFIP | Zoning Officer reviews and permits. |
| 4. Insurance Summary | | |
| How many NFIP policies are in the community? What is the total premium and coverage? | State NFIP Coordinator or FEMA NFIP Specialist | |
| 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 | TBD |
| How many structures are exposed to flood risk within the community? | Community FPA or GIS Analyst | +/- 18 |
| Describe any areas of flood risk with limited NFIP policy coverage | Community FPA or FEMA Insurance Specialist | 31 parcels in 1% annual flood |
| 5. Community Rating System (CRS) | | |
| 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 (http://www.fema.gov/floodinsurancemanual.gov) | |
| 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.

The Township is a typical suburban location with various high-density residential facilities including age restricted, dispersed throughout the Township.

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

In addition to various churches, schools, and the Hanover Township Community Center, the easterly, and portions of the westerly sections of the Township consist of business parks, which experience an influx of people during typical business hours.

2. Economy

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

The easterly and portions of the westerly sections of the Township consist of business partners where losses would impact the community.

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.

In addition to Federal Flood Plain Mapping, the Township Zoning Ordinance creates the Monocacy Creek Protection District and a special Conservation District overlay to provide additional regulations for development along sensitive natural features, including streams, wetlands, steep slopes, rock outcroppings, etc. which are protected in other districts as well.

Community Assets – *continued*

4. Built Environment

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

Approximately 0.3% of the municipality's general building stock is located within the 1% Annual Flood Area.

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

Westgate water systems maintains two facilities within 1% and 0.2% Annual Flood Areas.

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

None known

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

Critical facilities are distributed throughout the Township.

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

While the Township maintains several parks, the primary park with greatest usage is located adjacent to the Community Center, Municipal Pool, and Municipal Building, centrally located in the Township with primary access from Jacksonville Road.

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 | 2004 | | Internal and Hanover Engineering | S | | | | |
| | Capital Improvement Plan | X | 2013 | | Internal and Hanover Engineering | S | | | | |
| | Economic Development Plan | | | | | | | | | |
| | Continuity of Operations Plan | | | | | | | | | |
| | Stormwater Management Plan / Ordinance | X | 2007 | | Hanover Engineering | S | | | | Participating in LVPC Update |
| | Open Space Management Plan (or Parks/Rec., Greenways Plan) | X | 2006 | | Internal and Hanover Engineering | S | | | | |
| | Natural Resource Protection Plan | X | 2010 | | Internal and Hanover Engineering | S | | | | Part of Zoning and SALDO |
| | Transportation Plan | X | 2013 | | Internal and Hanover Engineering | S | | | | Act 209 Transportation Impact Fees |
| | Historic Preservation Plan | | | | | | | | | |
| | Floodplain Management Plan | X | 2014 | | Internal | S | | | | Zoning Officer |
| | Farmland Preservation | | | | | | | | | |
| | Evacuation Plan | | | | | | | | | |
| | Disaster Recovery Plan | | | | | | | | | |
| | Hazard Mitigation Plan | X | 11/2018 | | Internal | S | | N/A | | Updating |
| | Emergency Operations Plan | X | 1/2020 | | Internal | S | | | | |
| Zoning Regulations | X | 2010 | | Internal and Hanover Engineering | S | | | | Always Updating | |

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 | Floodplain Regulations | X | 2014 | | Internal and Hanover Engineering | S | | | | |
| | NFIP Participation | | | | | | | | | |
| | Building Code | X | 2012 | | Internal and External | S | | | | BCO and Third Party |
| | Fire Code | X | 2012 | | Internal and External | S | | | | BCO, VFC and Third Party |
| | Other | X | 2010 | | Internal and Hanover Engineering | S | | | | SALDO – Always Updating |

Capability Assessment – continued

| Capability | ✓ Staff ✓ Personnel ✓ Resources | Yes | No | Department / Agency | Change since 2013 Plan? + Positive - Negative | How can these capabilities be expanded and improved to reduce risk? | Additional Comments |
|---|---|-----|----|----------------------------------|---|---|---|
| 2. Administrative & Technology | Planners (with land use / land development knowledge) | X | | Internal and Hanover Engineering | | | |
| | Planners or engineers (with natural and / or human-caused hazards knowledge) | X | | Hanover Engineering | | | |
| | Engineers or professionals trained in building and / or infrastructure construction practices (including building inspectors) | X | | Hanover Engineering | | | |
| | Emergency Manager | X | | Internal | | | Emergency Management Coordinator and 2 Deputies |
| | Floodplain administrator / manager | X | | Internal | | | Zoning Officer |
| | Land surveyors | X | | Hanover Engineering | | | |
| | Staff familiar with the hazards of the community | X | | Internal and Hanover Engineering | | | |
| | Personnel skilled in Geographical Information Systems (GIS) and / or FEMA's HAZUS program | X | | Hanover Engineering | | | |
| | Grant writers or fiscal staff to handle large / complex grants | X | | Internal | | | Township Manager and Treasurer |
| | 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 |
|-------------------------------|---|-----|----|---------------------|---|---|---------------------|
| | | | | | | | |
| 3. Financial Resources | Capital improvement programming | X | | Internal | | | Treasurer |
| | Community Development Block Grants (CDBG) | X | | Internal | | | Treasurer |
| | Special purposes taxes | X | | Internal | | | Treasurer |
| | Gas / Electricity utility fees | X | | Internal | | | Treasurer |
| | Water / Sewer fees | X | | Internal | | | Treasurer |
| | Stormwater utility fees | | X | | | | |
| | Development impact fees | X | | Internal | | | Treasurer |
| | General obligation, revenue, and / or special tax bonds | X | | Internal | | | Treasurer |
| | Partnering arrangements or intergovernmental agreements | X | | Internal | | | Treasurer |
| | Other | | | | | | |

| Capability | ✓ Program ✓ Organization | Yes | No | Department / Agency | Change since 2013 Plan? + Positive - Negative | How can these capabilities be expanded & 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 | | Internal | Enhanced website capabilities and changeable message signs strategically placed in the Twp. | | |
| | 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 | | Internal | | | Volunteer Emergency Services and various committees and advisory boards |
| | 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 | |
| | Administrative and Technical | | X | | No | |
| | Financial | X | | | No | |
| | Education and Outreach | | X | | No | |

Known or Anticipated Future Development / Redevelopment

| Development / Property Name | Type of Development | Number of Structures | Location | Known Hazard Zone | Description / Status |
|--|---------------------------|----------------------|---|------------------------|-----------------------------------|
| Hanover Corp. Center II | Commercial | 5 – 10 | Northeasterly portion (Rt. 512 & Jaendl Road) | None | Ongoing Planning and Construction |
| Gulick Property | Commercial w/ Residential | 20 – 300+ | Southeasterly portion (Rt. 512 & Rt. 22) | Flood – Monocacy Creek | N/A |
| Lehigh Northampton Airport Authority +/- 1,500 ac. | Commercial | 20 – 40 | Airport Road Corridor | None | N/A |
| Burgess Place Redevelopment | Industrial | 3 | Bethlehem Business Park Burgess Place | None | Planning |

Natural & Non-Natural Event History Specific to Hanover 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 | |
| 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 | | | Long term DOF Retrofit structures in hazard prone areas (HPs) |
| 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 | | | Long Term DOF Purchase or relocate structures in HPA |
| 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 | | | Maintain compliance with NFIP |

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"> - 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 | | | Community and Public Education |
| 5 | Begin the process to adopt higher regulatory standards to manage flood risk (i.e. increased freeboard, cumulative substantial damage/improvements) and sinkhole risk (e.g. carbonate bedrock standards). | | | X | | | Adopt higher regulatory standards |
| 6 | Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed. | | | | X | | Determine CAV or CAC needed. Action carried through to the 2018 Action Plan. |
| 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 | | | | Certification of Floodplain Administrator |
| 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 | | | Participate in CRS |
| 9 | Archive elevation certificates | | | X | | | Archive Elevation Certificate |
| 10 | Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0 | | | X | | | Support this 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 | |
| 11 | Complete the ongoing updates of the Comprehensive Emergency Management Plans | | | X | | | Update Comprehensive Emergency Management Plan |
| 12 | Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations. | | | X | | | Continue/create Mutual Aid Agreements |
| 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 | X | | | Develop Agreements for administration and support |
| 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 | | | Work with Regional Agencies |

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 |
|--|-------------------------------|---|----------------------|----------------|--|--|----------------------------------|---|
| <p>1</p> <p>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.</p> | 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 |
| <p>2</p> <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. 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.</p> | 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 & Regulations | Flood, Windstorm/ Tornado, Winter Storm | High | Low - Medium | Local 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 |
|---|--|--------------------------------------|----------------------------|-----------------------------|-----------------------|--------------------------|--|--------------------------------|--|
| 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: Provide and maintain links to the HMP website, and regularly post notices on the County/municipal homepage(s) referencing the HMP webpages. Prepare and distribute informational letters to flood vulnerable property owners and neighborhood associations, explaining the availability of mitigation grant funding to mitigate their properties, and instructing them on how they can learn more and implement mitigation. Use email notification systems and newsletters to better educate the public on flood insurance, the availability of mitigation grant funding, and personal natural hazard risk reduction measures. Work with neighborhood associations, civic and business groups to disseminate information on flood insurance and the availability of mitigation grant funding.</p> | Education & Awareness | All Hazards | High | Low-Medium | Municipal Budget | Municipality with support from Planning Partners, PEMA, FEMA | Short-term | N/A |

2018 Mitigation Action Plan – continued

| Mitigation Action | | Mitigation Technique Category | Hazard(s) Addressed | Priority (H / M / L) | Estimated Cost | Potential Funding | Lead Agency / Department | Implementation Schedule | Applies to New and / or Existing Structures |
|-------------------|--|-------------------------------|---|----------------------|----------------|-------------------|--|-----------------------------------|---|
| 5 | Begin and/or continue the process to adopt higher regulatory standards to manage flood risk (i.e. increased freeboard, cumulative substantial damage/improvements) and sinkhole risk (e.g. carbonate bedrock standards). | Local plans & Regulations | Flood; Subsidence/ Sinkholes | High | Low | Municipal Budget | Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from PEMA, FEMA | Short-term | New & Existing |
| 6 | Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed. | Local plans & Regulations | Flood, Windstorm/ Tornado, Winter Storm | Medium | Low | Municipal Budget | NFIP Floodplain Administrator with support from PA DEP, PEMA, FEMA | Short-term (1 year) | 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 & Regulations | Flood, Windstorm/ Tornado, Winter Storm | 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 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 PADEP, PEMA, FEMA | Short-term (1 year) | N/A |

2018 Mitigation Action Plan – continued

| Mitigation Action | | Mitigation Technique Category | Hazard(s) Addressed | Priority (H / M / L) | Estimated Cost | Potential Funding | Lead Agency / Department | Implementation Schedule | Applies to New and / or Existing Structures |
|-------------------|---|-------------------------------|---|----------------------|--------------------------------|--|--|-------------------------|---|
| 9 | Obtain and archive elevation certificates for NFIP compliance. | Local plans & Regulations | Flood, Windstorm/ Tornado, Winter Storm | High | Low | Local Budget | NFIP Floodplain Administrator | Ongoing | N/A |
| 10 | Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0 | All Categories | All Hazards | High | Low – High (for 5-year update) | 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 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 | 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 |
| 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 |

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 |
|-------------------|---|-------------------------------|----------------------|----------------------|----------------|-------------------|----------------------------------|-------------------------|---|
| 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