

Upper Nazareth Township, Northampton County Annex

Hazard Mitigation Plan Points-of-Contact

Primary:

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Alternate:

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Municipal Profile

Upper Nazareth is a suburban township located in the center of Northampton County. It encompasses an area of 7.35 square miles and has an approximate population of 8,127 (2020 Census). The township is bordered by Stockertown Borough to the east; Palmer Township to the southeast; Lower Nazareth Township to the south; Bath Borough and East Allen Township to the west; and Moore and Bushkill Townships to the north.

Upper Nazareth Township is in the Delaware River watershed and is drained by the Lehigh River tributary of the Monocacy Creek, and by the Bushkill Creek.

Route 191 runs through the part of the township that lies northeast of Nazareth, where most of the township's population is centered. Route 248/the Bath Pike provides the primary east-west corridor in the western part of the township, providing access east and southeast through Nazareth Borough, and also points west and northwest. Route 946 bisects the township, providing the major north-south corridor and connecting with Route 191 south 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.

| | |
|--|--|
| Lisa Klem, Township Manager Role: Primary Point-of-Contact/Finance Contact | Mike Rinker, Local EMC Role: Alternate/Secondary Point-of-Contact |
| Jeff Fassel, Fire Chief Role: Fire Chief | Shawn Shupe, Public Works Director Role: Public Works Director |
| Bill Cope, Chief of Police Role: Chief of Police | John Soloe, Zoning Officer/Floodplain Administrator Role: Zoning Officer/Floodplain Administrator |
| Sean Dooley, Township Engineer (Keystone Consulting Engineers) Role: Engineer | |

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.

Nazareth Area School District – potential shelter
 Local churches – potential shelter
 Martin Guitar
 Gracedale / Northampton County 911 Center Daycares

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 2018 Hazard Mitigation Plan.

Current: Bi-annual Township newsletter, Township Facebook page, Township website & Northampton County website

Past: Same

Compliance with the National Flood Insurance Program (NFIP)

| Topic | Identify source of information if different from the one listed. | Additional Comments |
|---|--|---|
| 1. Staff Resources | | |
| Is the Community Floodplain Administrator (FPA) or NFIP Coordinator certified? | Community FPA | Yes |
| 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 | All handled through the permit process (Zoning Officer is our Floodplain Administrator) |
| What are the barriers to running an effective NFIP program in the community, if any? | Community FPA | Resistance of residents to purchasing floodplain insurance; need more education / outreach to floodplain residents. |
| 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)? | | Never |
| Is a CAV or CAC scheduled or needed? | | No |
| 3. Regulation | | |
| When did the community enter the NFIP? | NFIP Community Status Book | 12/27/1971 |
| Are the Flood Insurance Rate Maps (FIRMs) digital or paper? How are residents assisted with mapping? | Community FPA | Digital – provided to residents by request |
| Do floodplain regulations meet or exceed FEMA or State minimum requirements? If so, in what ways? | Community FPA | Exceed – with engineering reviews and UCC requirement |
| Describe the permitting process | Community FPA, State, FEMA NFIP | See Township's building/zoning permit process |

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

| 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 | As of 9/22/2023 – 7 policies & \$11,035 in premiums |
| 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 | As of 9/22/2023 – 4 claims & \$62,320.96 paid to claims |
| How many structures are exposed to flood risk within the community? | Community FPA or GIS Analyst | Unknown – too broad of a question |
| Describe any areas of flood risk with limited NFIP policy coverage | Community FPA or FEMA Insurance Specialist | Most of Liberty Street (in Upper Nazareth Township and Nazareth Borough) |
| 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) | 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.
 - Gracedale Nursing Home
 - Heritage Village of Moravian Hall Square/Morningstar Manor (future development)
 - Nazareth Area School District (Intermediate, Middle and High Schools)
- ✦ Types of visiting populations where large numbers of people are concentrated such as visitors for special events and students.
 - Tuskes Park
 - Nazareth Area School District Football Stadium (Andrew Leh)
 - Clipper Field, for football games (Sundays)

2. Economy

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

| | |
|---------------------------------------|-------------------------------|
| Martin Guitar | Nazareth Area School District |
| Lehigh Hanson / Heidelberg Cement | Prime Conduit |
| Northampton County (Gracedale Campus) | |

Community Assets – continued

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.

Creekside Park, behind Daniels Road Garage
 Penn Allen to 946 is all wetlands
 Schoeneck Creek riparian area, south of Beil Avenue

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.

Nazareth Area School District Middle School and High School Campus

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

| | |
|-----------------------------|------------------------------------|
| Penn East Pipeline (future) | Met-Ed Substation |
| PA American Water | Railroad tracks (Norfolk Southern) |

Nazareth Borough Municipal Authority (partially in Upper Nazareth Township)

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

| | |
|---------------|------------------------|
| Martin Guitar | Highway Materials East |
| Lawn Supply | Fogel’s Fuel |

Nazareth Area School District

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

| | |
|--------------------------|-----------------------------------|
| Gracedale – Nursing home | 911 Center |
| Forensics Center | Emergency Operations Center (EOC) |

Community Assets – continued

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

Indian Tower

Schoeneck Moravian Church

Tuskes Park

Capability Assessment

| Capability | ✓ Regulatory ✓ Tools ✓ Programs | Status | | | Department / Agency Responsible | Effect on Hazard Loss Reduction: -Supports -Neutral -Hinders | Change since 2018 Plan? + Positive - Negative | Has the 2018 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 | Comprehensive Plan | X | 8/3/2022 | | Zoning / Administration | S | + | No | | Currently being updated (Nazareth Council of Governments) |
| | Capital Improvement Plan | | | | | | | | | |
| | Economic Development Plan | | | | | | | | | |
| | Continuity of Operations Plan | | | N/A | | | | | | |
| | Stormwater Management Plan / Ordinance | X | | | Township Engineer | S | + | Yes | | Multiple Act 167 ordinances in place |
| | Open Space Management Plan (or Parks/Rec., Greenways Plan) | X | 11/2020 | | ARRO | S | N/A | No | N/A | |
| | Natural Resource Protection Plan | | | | | | | | | |
| | Transportation Plan | | | X | Planning Commission | | | | | Updating |
| | Historic Preservation Plan | | | | | | | | | |
| | Floodplain Management Plan | | | | | | | | | |
| | Farmland Preservation | | | | | | | | | |
| | Evacuation Plan | X | | | Emergency Management / Police / Fire | S | + | No | Further identifying vulnerable areas / populations | Continuous |
| | Disaster Recovery Plan | | | X | Safety Committee | | | | | |
| | Hazard Mitigation Plan | X | 2018 | X | | | + | | | |

Capability Assessment – continued

| Capability | ✓ Regulatory ✓ Tools ✓ Programs | Status | | | Department / Agency Responsible | Effect on Hazard Loss Reduction: -Supports -Neutral -Hinders | Change since 2018 Plan? + Positive - Negative | Has the 2018 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 | Emergency Operations Plan | X | 5/2020 | | Emergency Management | S | + | Yes | Continuously updated | |
| | Zoning Regulations | X | | | EPD | | | | Updating | |
| | Floodplain Regulations | X | | | | | | | | |
| | NFIP Participation | X | | | | | | | | |
| | Building Code | X | | | | | | | | |
| | Fire Code | | | | | | | | | |
| | Other | | | | | | | | | |

Capability Assessment – continued

| Capability | ✓ Staff ✓ Personnel ✓ Resources | | | Department / Agency | Change since 2018 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 | No | | |
| | Planners or engineers (with natural and / or human caused hazards knowledge) | | | | No | | |
| | Engineers or professionals trained in building and / or infrastructure construction practices (including building inspectors) | X | | Keystone Consulting Engineers | No | | |
| | Emergency Manager | X | | | No | | |
| | Floodplain administrator / manager | X | | Zoning | No | | |
| | Land surveyors | X | | Keystone Consulting Engineers | No | | |
| | Staff familiar with the hazards of the community | X | | Multiple | Yes – new township manager in 2015 | | |
| | Personnel skilled in Geographical Information Systems (GIS) and / or FEMA's HAZUS program | X | | Keystone Consulting Engineers and Public Works | No | | |
| | Grant writers or fiscal staff to handle large / complex grants | X | | Administration | | | |
| Other | | | | | | | |

Capability Assessment – continued

| Capability | | | Department / Agency | Change since 2018 Plan? + Positive - Negative | How can these capabilities be expanded and improved to reduce risk? | Additional Comments |
|-------------------------------|---|----|---------------------|---|---|--|
| | Yes | No | | | | |
| 3. Financial Resources | Capital improvement programming | | | | | |
| | Community Development Block Grants (CDBG) | | | | | |
| | Special purposes taxes | | | | | |
| | Gas / Electricity utility fees | | | | | |
| | Water / Sewer fees | | | | | |
| | Stormwater utility fees | | | | | |
| | Development impact fees | X | | Planning & Zoning | Increase in recreation fees | Development of a Recreational Plan (in progress) |
| | General obligation, revenue, and / or special tax bonds | | | | | |
| | Partnering arrangements or intergovernmental agreements | X | | Board of Supervisors & Administration | N/A | Update agreements & NAZCOG Comprehensive Plan |
| | Other | | | | | |

Capability Assessment – continued

| Capability | ✓ Program ✓ Organization | Yes | No | Department / Agency | Change since 2018 Plan? + Positive - Negative | How can these capabilities be expanded and improved to reduce risk? | Additional Comments |
|-------------------------|---|-----|----|---|---|---|---------------------|
| | | | | | | | |
| 4. Education & Outreach | Firewise Communities Certification | | | | | | |
| | StormReady Certification | | | | | | |
| | Natural disaster or safety-related school programs | | | | | | |
| | Ongoing public education or information programs such as, responsible water use, fire safety, household preparedness, and environmental education. | X | | Multiple (Administration, Police, Fire, Department, etc.) | Increased communications / education in township newsletter | Greater focus on hazard-related information | |
| | Public-private partnership initiatives addressing disaster related issues. | | | | | | |
| | Local citizen groups or non-profit organizations focused on environmental protection, emergency preparedness, access and functional needs populations, etc. | | | | | | |
| | Other | | | | | | |

| Capability | | Degree of Capability | | | Change since the 2018 Hazard Mitigation Plan? If so, how? | Additional Comments |
|----------------------|------------------------------|----------------------|----------|------|--|--|
| | | Limited | Moderate | High | | |
| 5. Self – Assessment | Planning and Regulatory | | X | | N/A | |
| | Administrative and Technical | | X | | | |
| | Financial | | X | | | Township is in better financial condition than 2013. |
| | Education and Outreach | | X | | N/A | |

Known or Anticipated Future Development / Redevelopment

| Development / Property Name | Type of Development | Number of Structures | Location | Known Hazard Zone | Description / Status |
|-----------------------------|-----------------------------|----------------------|--|-------------------|--------------------------------------|
| Heritage Village | Senior Living | 143 Units | W. Beil Avenue | Wetland | Under Construction (Phase 1 of 6) |
| Kay Scenic View Estates | Single Family / Residential | 34 | North of City View Drive (extended) | No | Under Construction |

Natural & Non-Natural Event History

| 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. |

2018 Municipal Action Plan Status

| Existing Mitigation Action (from 2018 Hazard Mitigation Plan) | Status | | | | | Additional Comments |
|---|--------------------------|-------------|------------|-----------|--------------|------------------------------|
| | No Progress / Unknown | In Progress | Continuous | Completed | Discontinued | |
| <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> | | | X | | | No changes |
| <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> | | | X | | | No changes since last update |
| <p>3</p> <p>Maintain compliance with and good standing in the NFIP including adoption and enforcement of floodplain management requirements (e.g. regulating all new and substantially improved construction in Special Hazard Flood Areas), floodplain identification and mapping, and flood insurance outreach to the community. Further, continue to meet and/or exceed the minimum NFIP standards and criteria through the following NFIP- related continued compliance actions identified as Initiatives below.</p> | | | X | | | No changes since last update |

2018 Municipal Action Plan Status – continued

| | Existing Mitigation Action (from 2018 Hazard Mitigation Plan) | Status | | | | | Additional Comments |
|----|--|--------------------------|-------------|------------|-----------|--------------|---|
| | | No Progress / Unknown | In Progress | Continuous | Completed | Discontinued | |
| 4 | Conduct and facilitate community and public education for residents and businesses to include, but not be limited to, the following to promote and effect 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 | | | Newsletter goes out twice a year |
| 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). | | | | X | | Action carried through to the 2023 Action Plan. No progress |
| 6 | Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed. | X | | | | | No progress |
| 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. | X | | | | | Floodplain Manager is a CFM, has been present for a while. |
| 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 | | | | | No progress |
| 9 | Obtain and archive elevation certificates for NFIP compliance. | X | | | | | No progress |
| 10 | Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0. | | | X | | | No progress |

2018 Municipal Action Plan Status – continued

| Existing Mitigation Action (from 2018 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 | X | | Adopted updated Emergency Operations Plan in November of 2017. Added X to Completed because EOP adopted; kept X in Continuous because action is also ongoing and carried through to the 2023 Action Plan. Will be adopted in February 2024 |
| 12 | Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations. | | | X | | | No progress |
| 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. | | | X | | | No progress |
| 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 | | | No progress |
| 15 | Drudge and restore, modify the channel DEP collaboration and USACE permitted stream restoration pulled toward Sycamore Street Park. | | | | X | | Completed 2021 Summer |

Notes:

1. Actions not carried through to the 2023 Action Plan are so noted.
2. To maintain National Flood Insurance Program (NFIP) compliance, actions related to the NFIP were carried through to the 2023 Action Plan even if identified by the municipality as completed.

2023 Mitigation Action Plan

| Mitigation Action | | Mitigation Action Category | 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 | <p>Retrofit structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority.</p> <p>Phase 1: Identify appropriate candidates for retrofitting based on cost-effectiveness versus relocation.</p> <p>Phase 2: Where retrofitting is determined to be a viable option, work with property owners toward implementation of that action based on available funding from FEMA and local match availability.</p> | 1 | Structure & Infrastructure | Flood | High | High | FEMA Mitigation Grant Programs and local budget (or property owner) for cost share | Municipality (via Municipal Engineer/NFIP Floodplain Administrator) w/ support from PEMA, FEMA | Long-term (depending on funding) | Existing |
| 2 | <p>Purchase, or relocate structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority.</p> <p>Phase 1: Identify appropriate candidates for relocation based on cost-effectiveness versus retrofitting.</p> <p>Phase 2: Where relocation is determined to be a viable option, work with property owners toward implementation of that action based on available funding from FEMA and local match availability.</p> | 2 | Structure & Infrastructure | Flood | High | High | FEMA Mitigation Grant Programs and local budget (or property owner) for cost share | Municipality (via Municipal Engineer/NFIP Floodplain Administrator) w/ support from PEMA, FEMA pal | Long-term (depending on funding) | Existing |

2023 Mitigation Action Plan – continued

| Mitigation Action | Mitigation Action Category | 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>3 Maintain compliance with and good standing in the NFIP including adoption & enforcement of floodplain management requirements (e.g. regulating all new & substantially improved construction in Special Hazard Flood Areas), floodplain identification & mapping, & flood insurance outreach to the community. Further, continue to meet and/or exceed the minimum NFIP standards and criteria through the following NFIP- related continued compliance actions identified below.</p> | 3 | Local plans & Regulations | Flood | High | High | Municipal Budget | Municipality (via Municipal Engineer/NFIP Floodplain Administrator) w/ support from PEMA, ISO FEMA | Ongoing | New & Existing |

2023 Mitigation Action Plan – continued

| Mitigation Action | Mitigation Action Category | Mitigation Technique Category | Hazard(s) Addressed | Priority (H / M / L) | Estimated Cost | Potential Funding | Lead Agency / Department | Implementation Schedule | Applies to New and/or Existing Structures |
|--|----------------------------|-------------------------------|---------------------|----------------------|----------------|-------------------|--|-------------------------|---|
| <p>4 Conduct and facilitate community and public education and outreach for residents and businesses to include, but not be limited to, the following to promote and effect natural hazard risk reduction:</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. | 4 | Education & Awareness | All Hazards | High | Low-Medium | Municipal Budget | Municipality w/ support from Planning Partners, PEMA, FEMA | Short-term | N/A |

2023 Mitigation Action Plan – continued

| Mitigation Action | | Mitigation Action Category | 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) sinkhole risk (e.g. carbonate bedrock standards). | 5 | Local plans & Regulations | Flood; Subsidence / Sinkholes | High | Low | Municipal Budget | Municipality (Mun. Engineer / NFIP Floodplain Adm.) 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. | 3 | Local plans & Regulations | Flood | High | Low | Municipal Budget | NFIP Floodplain Administrator w/ 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. | 6 | Local plans & Regulations | Flood | Medium | 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. | 7 | Local plans & Regulations | Flood | High | Low | Municipal Budget | NFIP Floodplain Administrator w/ support from PADEP, PEMA, FEMA | Short-term | N/A |

2023 Mitigation Action Plan – continued

| Mitigation Action | | Mitigation Action Category | 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. | 8 | Local plans & Regulations | Flood | Low | Low | Municipal Budget | NFIP Floodplain Administrator | Ongoing | N/A |
| 10 | Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0. | 9 | 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. | 10 | Local plans & Regulations | All Hazards | Medium | Low | Municipal Budget | Municipality w/ support from PEMA | Ongoing | New & Existing |
| 12 | Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations. | 11 | All Categories | All Hazards | Medium | Low | Municipal Budget | Municipality w/ support from surrounding municipalities and County | Ongoing | New & Existing |
| 13 | Develop & 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. | 12 | Structure & Infrastructure | All Hazards | Low | Medium | Municipal Budget | Municipality w/ support from County, PEMA, FEMA | Short-term | N/A |

2023 Mitigation Action Plan – continued

| Mitigation Action | Mitigation Action Category | 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). | 13 | Structure & Infrastructure | All Hazards | Medium | Medium | Municipal Budget, FEMA HMA grant programs | Municipality w/ support from County, PEMA | Short-, long-term (depending on funding) | 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