**Fountain Hill Borough, Lehigh County Annex**

**Hazard Mitigation Plan Points-of-Contact**

|  |  |
| --- | --- |
| **Primary:** | **Alternate:** |
| Anthony BrancoExecutive Administrator941 Long Street, Fountain Hill 18015610-867-0301abranco@fhboro.org | Jason QuarryPublic Works Supervisor/Public Works941 Long Street, Fountain Hill, PA 18015610-867-0301pw@fhboro.org |

**Municipal Profile**

The Borough of Fountain Hill is located in eastern Lehigh County and is part of the Allentown / Bethlehem metropolitan area. Fountain Hill is primarily a residential municipality, with an estimated population of 4,832 (2020 Census). Fountain Hill is surrounded by the City of Bethlehem (Northampton County) to the east; Lower Saucon Township (Northampton County) to the south; and Salisbury Township to the west. The Lehigh River forms the borough’s northern boundary, separating it from the City of Bethlehem (Lehigh County). The total area of the borough is approximately 0.7 square miles.

The Lehigh River forms the borough’s northern border south of Bethlehem and is the only waterway in the Borough. The other main aquatic feature is the Lechauweki Springs, which is the site of a passive park with a pond, an island gazebo, historic interpretive signs, trails and picnic areas.

While the borough maintains 23 miles of municipal roads, there are no highways within its boundaries. Broadway and Delaware Avenue provide direct connections to the City of Bethlehem to the east, and Salisbury Township and Allentown to the west. State Route 378 passes a short distance east of the Borough.

**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.

|  |  |
| --- | --- |
| Anthony Branco, Executive AdministratorRole: TBD | Jason Quarry, Public Works Supervisor/Public WorksRole: TBD |
| Dave Boeher, Fire ChiefRole: TBD | Don Sabo, Emergency Management Role: TBD |
| Ray Anthony, Fire MarshallRole: TBD | Ed Bachert, Police ChiefRole: TBD |
| Jill Smith/Designee, Hanover EngineeringRole: TBD |

*\*please update table as needed*

1. 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.

Lehigh Valley Housing

Cedarbrook Annex

St. Luke’s University Health Network (SLUHN)

Bethlehem School District

1. 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: Fire Department and Police Department social media bursts

 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 | Floodplain permits reviewed by the Engineer and issued by the Zoning Officer. |
| Is floodplain management an auxiliary function? | Community FPA | Yes. Only addressed when a subdivision plan comes in. |
| Provide an explanation of NFIP administration services (e.g., permit review, GGIS, education or outreach, inspections, engineering capability) | Community FPA | All permits are received by the Zoning Officer and then reviewed by an inspection agency to comply with Building Codes. The Engineer also reviews for any floodplains, steep slopes, etc.  |
| What are the barriers to running an effective NFIP program in the community, if any? | Community FPA | Small staff trying to do multiple jobs, as well as the financial restraints faced by the Borough.  |
| **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? |  | Unknown |
| **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 | Currently maps are paper. Walk-in requests for assistance. New maps will be both, per the FEMA contact person.  |
| Do floodplain regulations meet or exceed FEMA or State minimum requirements? If so, in what ways? | Community FPA | The Borough meets all the requirements of the PA Floodplain Management Act (Act 1978-166) as well as all FEMA regulations. |
| Describe the permitting process | Community FPA, State, FEMA NFIP | Zoning Officer receives a permit, the permit is sent to the Engineer and Inspection Agency for review and approval. Hearings are held if required. |
| **4. Insurance Summary** |
| How many NFIP policies are in the community?What is the total premium and coverage? | State NFIP Coordinator orFEMA NFIP Specialist | 1 |
| How many claims have been paid in the community? What is the total amount of paid claims? How many substantial damage claims have there been? | FEMA NFIP or Insurance Specialist | Unknown |
| How many structures are exposed to flood risk within the community? | Community FPA or GIS Analyst | 0 |
| Describe any areas of flood risk with limited NFIP policy coverage | Community FPA or FEMA Insurance Specialist | 2.6% of the Municipal land area is located within 1% annual chance flood area. |
| **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.

St. Luke’s University Health Network

Cedarbrook

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

 None

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

 St. Luke’s University Health Network

1. **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.

 None

1. **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.

Fountain Hill Offices

Police Department

Fountain Hill Public Works

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

Sewage pumping station

St. Luke’s University Health Network

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

Bethlehem water reservoir

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

St. Luke’s University Health Network

Ambulance

Fountain Hill offices

Fountain Hill Police and Fire Department

Fountain Hill Elementary School

Fountain Hill Public Works

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

 None

**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 & Regulatory** | Comprehensive Plan | X | 2007 |  | Borough | S |  |  |  |  |
| Capital Improvement Plan |  |  |  |  |  |  |  |  |  |
| Economic Development Plan |  |  |  |  |  |  |  |  |  |
| Continuity of Operations Plan |  |  |  |  |  |  |  |  |  |
| Stormwater Management Plan / Ordinance | X | 2008 |  | Borough | S |  |  |  |  |
| Open Space Management Plan (or Parks/Rec., Greenways Plan) | X | 1973 |  | Borough | S |  |  |  |  |
| Natural Resource Protection Plan | X | 1973 |  | Borough | S |  |  |  |  |
| Transportation Plan |  |  |  |  |  |  |  |  |  |
| Historic Preservation Plan | X | 2008 |  | Borough | N |  |  |  |  |
| Floodplain Management Plan | X | 2007 |  | Borough | S |  |  |  |  |
| Farmland Preservation |  |  |  |  |  |  |  |  |  |
| Evacuation Plan |  |  |  |  |  |  |  |  |  |
| Disaster Recovery Plan |  |  |  |  |  |  |  |  |  |
| Hazard Mitigation Plan | X | 2018 |  | County | S |  | N/A |  |  |
| Emergency Operations Plan | X | 2016 |  | Emergency Management | S |  |  |  |  |
| Zoning Regulations | X | 2008 |  | Borough | S |  |  |  |  |
| Floodplain Regulations | X | 2008 |  | Borough Engineering | S |  |  |  |  |
| NFIP Participation |  |  |  |  |  |  |  |  |  |
| Building Code | X | 2004 |  | Borough | S |  |  |  |  |
| Fire Code | X | 2016 |  | Borough | S |  |  |  |  |
| Other |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Capability** | * **Staff**
* **Personnel**
* **Resources**
 | **Yes** | **No** | **Department / Agency** | **Change since 2018 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 |  | Administration |  |  | 3rd party agency |
| Planners or engineers (with natural and / or human-caused hazards knowledge) | X |  | Administration |  |  | 3rd party agency |
| Engineers or professionals trained in building and / or infrastructure construction practices (including building inspectors) | X |  | Administration |  |  | 3rd party agency |
| Emergency Manager | X |  | Fire Department |  |  | Volunteer |
| Floodplain administrator / manager |  |  |  |  |  |  |
| Land surveyors | X |  | Administration |  |  | 3rd party agency |
| Staff familiar with the hazards of the community | X |  | Public Works |  |  |  |
| Personnel skilled in Geographical Information Systems (GIS) and / or FEMA’s HAZUS program | X |  | Administration |  |  | 3rd party agency |
| Grant writers or fiscal staff to handle large / complex grants |  |  |  |  |  |  |
| Other |  |  |  |  |  |  |
| **3. Financial Resources** | Capital improvement programming | X |  | Administration |  |  |  |
| Community Development Block Grants (CDBG) | X |  | County |  |  |  |
| Special purposes taxes |  |  |  |  |  |  |
| Gas / Electricity utility fees |  |  |  |  |  |  |
| Water / Sewer fees |  |  |  |  |  |  |
| Stormwater utility fees |  |  |  |  |  |  |
| Development impact fees |  |  |  |  |  |  |
| General obligation, revenue, and / or special tax bonds | X |  | Administration |  |  |  |
| Partnering arrangements or intergovernmental agreements | X |  | Administration |  |  |  |
| Other |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Capability** | * **Staff**
* **Personnel**
* **Resources**
 | **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 |  | Administration 3rd party |  |  |  |
| 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 |  | 3rd party assistance |
| Administrative and Technical |  |  | X |  | 3rd party assistance |
| Financial |  |  | X |  |  |
| Education and Outreach | X |  |  |  |  |

**Known or Anticipated Future Development / Redevelopment**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Development /** **Property Name** | **Type of Development** | **Number of Structures** | **Location** | **Known Hazard Zone** | **Description / Status** |
| 940 Cherokee LLC | Subdivision | Unknown | 940 Cherokee Street | Underground storm sewer |  |
| Aldi Inc. | Subdivision | 1 | S.R. 2002 & Dodson Street | Underground retention field |  |

**Natural & Non-Natural Event History Specific to Fountain Hill Borough**

|  |  |  |
| --- | --- | --- |
| **Type of Event and Date(s)** | **FEMA Disaster #****(if applicable)** | **Local Damage(s) or Loss(es)** |
| Winter Storm Jonas – 1/2016 | DR-4267-PA | Snow event |
| Pennsylvania COVID-19 Pandemic – 1/2020 | DR-4506-PA | Emergency Protective measures to combat COVID-19 Pandemic. |

**2018 Municipal Action Plan Status**

| **Existing Mitigation Action****(from 2018 Hazard Mitigation Plan)** | **Status** | **Additional Comments** |
| --- | --- | --- |
| **No Progress /** **Unknown** | **In Progress** | **Continuous** | **Completed** | **Discontinued** |
| **1** | Rehabilitation, upgrading of sanitary, and storm sewer lines. |  |  | X |  |  | Still in process |
| **2** | 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 |  |  | Continue public education; floodplain management continues. |
| **3** | 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 Borough homepage(s) referencing the HMP webpages. 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. |  |  | X |  |  | Continue public educations |
| **4** | Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0. |  |  | X |  |  |  |
| **5** | Complete the on-going updates of the Comprehensive Emergency Management Plans. |  |  | X |  |  |  |
| **6** | Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations. |  |  | X |  |  | The Borough continues to monitor and update as necessary |
| **7** | 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 |  |  | Ongoing |
| **8** | 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 |  |  | Ongoing: continue to review and update the Emergency Op plan as necessary. |
| **9** | Implement fire inspection program in conjunction with the 2009 UCC Fire Code. |  |  | X |  |  | Ongoing |
| **10** | 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. |  |  |  |  |  |  |
| **11** | Devise an employee vaccination and immunization plan to prevent an outbreak within the municipal employee ranks. |  |  |  |  |  |  |
| **12** | Devise a municipal continuity of operations plan to keep essential services running in the event that a significant portion of the workforce is affected. |  |  |  |  |  |  |
| **13** | Devise a public education and outreach plan regarding disease prevention. |  |  |  |  |  |  |
| **14** | Provide education and outreach to residents regarding how to prevent the spread of invasive species, including quarantine procedures. |  |  |  |  |  |  |
| **15** | Develop a neighborhood cleanup plan designed to remove discarded tires, trash and other items in which standing water can form. |  |  |  |  |  |  |
| **16** | Provide training and education for first responders to ensure effective emergency care. |  |  |  |  |  |  |
| **17** | Provide education and outreach, especially in K-12, regarding drug abuse prevention. |  |  |  |  |  |  |

**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** | **Regional 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** | Rehabilitation, upgrading of sanitary, and storm sewer lines. | 14 | Structure & Infrastructure | Flood | Medium | High | Federal, State, County grant opportunities | Municipal Public Works | Short-term (depending upon funding) | Existing |
| **2** | 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. | 3 | Local plans & Regulations | Flood | High | Medium | Municipal Budget | Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from PEMA ISO FEMA | Ongoing | New & Existing |
| **3** | 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 Borough homepage(s) referencing the HMP webpages. 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. | 4 | Education & Awareness | All Hazards | High | Medium | Municipal Budget | Municipality with supportfrom Planning Partners,PEMA, FEMA | Short-term | N/A |
| **4** | 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, possiblyFEMAMitigationGrantFunding for 5-year update | Municipality (via mitigation planning point of contacts)with supportfrom Planning Partners(through theirPoints ofContact),PEMA | Ongoing | New & Existing |
| **5** | Complete the on-going updates of the Comprehensive Emergency Management Plans. | 10 | Local plans & Regulations | All Hazards | Medium | Low | Municipal Budget | Municipality with support from PEMA | Ongoing | New & Existing |
| **6** | Create/enhance/maintain mutual aid agreements with neighboring communities for continuity of operations. | 11 | All Categories | All Hazards | Medium | Low | Municipal Budget | Municipality with support from surrounding municipalities and County | Ongoing  | New & Existing |
| **7** | 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. | 12 | Education & Awareness | All Hazards | Low | Medium | Municipal Budget | Municipality with support from County, PEMA, FEMA | Short-term | N/A |
| **8** | 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 | Education & Awareness | All Hazards | Medium | Medium | Municipal budget, FEMA HMA grant programs | Municipality with support from County, PEMA | Short-term (depending upon funding) | N/A |
| **9** | Implement fire inspection program in conjunction with the 2009 UCC Fire Code. | 27 | Education & Awareness | Environmental Hazards/Explosion | High | Low | License Fees | EMS/Fire Marshal | ~2019 | New & Existing |
| **10** | 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. | 11 | Local plans & Regulations | Pandemic and Infectious Disease | Medium | Low | Municipal Budget | Municipality, working with County EMA and PA Department of Health | Ongoing | N/A |
| **11** | Devise an employee vaccination and immunization plan to prevent an outbreak within the municipal employee ranks. | 10 | Local plans & Regulations | Pandemic and Infectious Disease | Medium | Low | Municipal Budget | Municipality | Short-term | N/A |
| **12** | Devise a municipal continuity of operations plan to keep essential services running in the event that a significant portion of the workforce is affected. | 10 | Local plans & Regulations | Pandemic and Infectious Disease | Medium | Low | Municipal Budget | Municipality | Short-term | N/A |
| **13** | Devise a public education and outreach plan regarding disease prevention. | 4 | Education & Awareness | Pandemic and Infectious Disease | High | Low | Municipal Budget | Municipality | Ongoing | N/A |
| **14** | Provide education and outreach to residents regarding how to prevent the spread of invasive species, including quarantine procedures. | 4 | Education &Awareness | Invasive Species | High | Low | Municipal Budget | Municipality | Ongoing | N/A |
| **15** | Develop a neighborhood cleanup plan designed to remove discarded tires, trash and other items in which standing water can form. | 27 | Education &Awareness | Invasive Species | High | Low | Municipal Budget | Municipality | Short-term | N/A |
| **16** | Provide training and education for first responders to ensure effective emergency care. | 27 | Local plans & Regulations | Drug OverdoseCrisis | High | Low | Municipal Budget | Municipality | Ongoing | N/A |
| **17** | Provide education and outreach, especially in K-12, regarding drug abuse prevention. | 4 | 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 andCommunities
* **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