

Cumberland County Multi-Hazard Mitigation Plan Update Participating Jurisdiction Appendices

Appendix 12 Shiloh Borough, New Jersey

Notes to Preliminary Draft Reviewers

This Preliminary Draft of the Shiloh Borough Appendix to the Cumberland County Multi-Hazard Mitigation Plan Update (CC HMPU) includes:

Updated tables containing information available as of September 7th for the community's:

- Working Group
- Critical Facilities
- <u>Mitigation Measures</u> included in the 2016 Mitigation Plan for Four New Jersey Counties (NJ4 HMP)
- Plan Review and Integration document status

In addition, the Preliminary Draft contains:

- Preliminary Hazard Identification and Risk Assessment (HIRA) Update including mapping and data tabulations regarding vulnerability to natural hazards and social vulnerability considerations
- Hazard Priorities as determined by the Working Group
- Goals and Strategies

Finally, the Preliminary Draft includes initial lists of proposed <u>Municipal and Multi-Jurisdictional Mitigation Measures</u> to be included in the CC HMPU.

Text highlighted in yellow indicates information requested of the community's Working Group as part of this review.

Text highlighted in blue indicates information to be provided and/or actions to be taken at a later date.

Please provide any questions, input, or comments to your community's Emergency Management Coordinator:

Gary Van Meter oem@hopewelltwp-nj.com

This review period will close on Friday, October 1st. However, there will be additional opportunities to participate in the development of the CC HMPU. These opportunities will be identified on the project website (https://cchmpu21.com).

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Part 1.1: Cumberland County Multi-Hazard Mitigation Plan Update

The Cumberland County Multi-Hazard Mitigation Plan Update (CC HMPU) incorporates input from all 15 participating jurisdictions in Cumberland County, including Cumberland County and 14 separate municipalities.

The CC HMPU is an update of the Mitigation Plan for Four New Jersey Counties (NJ4 HMP) that was completed by all fifteen jurisdictions in Cumberland County along with over 70 additional jurisdictions from Camden, Gloucester, and Salem Counties. The Cumberland County portions of the NJ4 HMP were adopted by the participating jurisdictions and approved by the Federal Emergency Management Agency in 2016.

The CC HMPU has two main parts:

- Cumberland County Multi-Hazard Mitigation Plan Update, or the "Base Plan".
- County and Municipal Appendices.

The Base Plan [will include] descriptions and information that is common to all 15 participating jurisdictions organized according to the following three focus areas:

- Planning Process
- Hazard Identification and Risk Assessment
- Mitigation Measures

The County and Municipal Appendices include specific information for these same three focus areas for each of the 15 participating jurisdictions. Detailed tabulations are included in these Municipal Appendices for critical facilities, the status of past mitigation activities, and proposed mitigation measures for each municipality.

Part 1.2: Shiloh Borough Municipal Appendix

This Municipal Appendix is focused on Shiloh Borough in Cumberland County, New Jersey.

The Shiloh Borough Municipal Working Group [will recommend] the Shiloh Borough Municipal Appendix for adoption to the Shiloh Borough Council.

The Shiloh Borough Council [will adopt] the Municipal Appendix by resolution (see Attachment B: Adoption Resolution).

Region II of the Federal Emergency Management Agency [will approve] the Municipal Appendix (see Attachment C: Approval Letter).

Part 2.1: Municipal Working Group Participation

Part 2.1 includes:

- Municipal Working Group members including positions in the community, meetings and work sessions attended, and specific contributions to the Municipal Appendix
- Municipal positions and organizations that were invited but were not able to participate in the plan update process
- Municipal positions and organizations that have been recommended by the Federal Emergency
 Management Agency (FEMA) as candidates for participation on Municipal Working Groups but do
 not exist in the municipality

Table 12-1 identifies the Municipal Working Group members. As [will be] detailed in *Section 2: Planning Process* of the Base Plan, the Municipal Working Groups are comprised of community representatives who worked to make sure mitigation measures included in the Municipal Appendix addressed the risks faced by residents, businesses, and property owners and reflected the priorities of the community.

Municipal Working Group members reviewed briefing materials and contributed during Work Sessions and Meetings and [will review] the Preliminary Draft and Draft versions of the CC HMPU Base Plan and Appendices. The Working Group will also continue to stay involved during the implementation and maintenance of the CC HMPU.

Due to the on-going COVID-19 pandemic during the plan update process, Working Group meetings were conducted in a variety of ways including virtual meetings. However, when local conditions permitted, inperson meetings were conducted.

Note: Twelve members of the Working Group also participated in the development of the 2016 NJ4 HMP. These members are indicated with an (*) following their last names.

| First Name | Last Name | Department | Position | Project Kick-off Meeting ¹ | Working Group Meeting² | Round 1 Work Session³ | Round 2 Work Session⁴ | Contribution⁵ |
|------------|---------------------------|----------------------------------|-----------------------|---|------------------------------|-----------------------------|-----------------------------|--|
| Gary | VanMeter, Sr. * | Shiloh Borough OEM | OEM Coordinator | V | V | V | | Organized Working Group and Work Sessions. |
| Donna | VanMeter * | Shiloh Borough OEM | Volunteer | | | Ø | | |
| Brad | Campbell * | Shiloh Borough Administration | Councilman / Mayor | | V | V | | |
| Dallus | Bruso * | Shiloh Borough Administration | Council President | | V | | | |
| Hillary | Barille | Shiloh Borough Administration | Councilwoman | | Ø | | | |

Table 12-1: Shiloh Borough Working Group

¹ Project Kickoff Meeting was held on May 20, 2021.

² Working Group Meeting was held on June 7, 2021.

³ Round 1 Work Session was held on July 27, 2021.

⁴ Round 2 Work Session [will be] held on [to be determined].

⁵ Additional or unusual contributions are noted in the far-right hand column.

| First Name | Last Name | Department | Position | Project Kick-off Meeting¹ | Working Group Meeting ² | Round 1 Work Session ³ | Round 2 Work Session⁴ | Contribution⁵ |
|------------|--------------------|---|---|---------------------------------|--|---|-----------------------------|---------------|
| Carman | Daddario * | Shiloh Borough Administration | Councilman | | | | | |
| Matt | Hunzer | Shiloh Borough Administration | Councilman | | V | | | CX |
| Jeff | Knerr | Shiloh Borough Administration | Councilman | | V | | | |
| Glenn | Newkirk ∗ | Shiloh Borough Administration | Councilman | | | | 2 | |
| Medeia | Willis * | Shiloh Borough Administration | Councilwoman | | V | | | |
| Ronald L. | Campbell, Sr. * | Shiloh Borough Administration | Municipal Clerk | | V | | | |
| Teresa | Warburton | Shiloh Borough | Construction Official / Housing Inspector ⁶ | | 1 | | | |
| Kenny | Mayhew | Hopewell-Stow Creek Fire Department | Chief | | | V | | |
| Rebecca | Bertram ∗ | Shiloh Borough Resident | Solicitor | 7 | ☑ | | | |
| Blair | Bakker * | Shiloh Borough Major Employers / Businesses | Agricultural Business | | | | | |
| Sarah | Bakker * | Shiloh Borough Major Employers / Businesses | Agricultural Business | | | | | |
| Don | Chrowger * | Shiloh Borough Community / Faith-Based | Pastor of Seventh Day Baptist Church of Shiloh | | | | | |
| 3 | | | | | | | | |

⁶ Housing Inspector is a shared position with Upper Deerfield Township.

The following lists candidate positions and organizations within the community that were extended invitations but could not participate during the development of the Municipal Appendix. These positions and organizations will continue to be extended invitations to participate during subsequent plan implementation and maintenance activities.⁷

[to be completed pending Working Group participation throughout the plan update process]

The following lists positions and organizations that are generally recommended for consideration as members of the Municipal Working Groups by FEMA but do not currently exist within the community. An invitation to participate will be extended if positions are created or filled and as organizations are formed.

- Floodplain Administrator / Manager (Shiloh Borough is not a participating community under the National Flood Insurance Program)
- Land Use / Economic Development Planner
- GIS / IT Specialist
- Engineering
- Public Works
- Transportation Department Directors / Supervisors
- Police
- Business Associations
- Environmental Organizations
- Non-Governmental Organizations
- Critical Infrastructure and Key Resources
- Healthcare Institutions
- School Board

⁷ Plan implementation and maintenance activities [will be] described in *Section 4: Mitigation Measures* of the CC HMPU Base Plan.

Part 2.2: Public Participation

Part 2.2 [will include] all opportunities provided to the public and interested parties in the municipality to participate during the plan update process.

Table 12-2 [will identify] the date, type of involvement, and location (where applicable) for all opportunities provided to the public and interested parties to participate in the development of the plan update.

Date Location Type of Involvement [insert date link Link to Project Website⁸ established and [insert municipal website URL was maintained. established1 [insert date Public meeting conducted with presentation meeting was [insert location] held (if and open discussion. applicable)] September 8, Preliminary Municipal Appendix available for Project Website 2021 public comment. Notice posted re: Preliminary Municipal [insert date link Appendix review period with link to Project was [insert municipal website URL] established] Website. [date(s) to be Public outreach via [insert audience(s) and [insert location(s)] determined] outreach method(s)]. Idate to be Draft Municipal Appendix [will be] available for Project Website determined1 public comment. Public hearing [will be] conducted regarding date to be the Draft Municipal Appendix providing for [insert location] determined] open discussion and public comment.

Table 12-2: Public Participation

Public comments and input received for the Preliminary Draft and Draft versions of the Municipal Appendix will bel:

- Considered by the Municipal Working Group and [will be] incorporated into the Municipal Appendix where appropriate.
- Included in Attachment A to the Municipal Appendix along with a brief explanation of if and how the comments were addressed in the Municipal Appendix.

In addition, the Municipal Appendix [will be] adopted as part of a regularly scheduled public meeting (see Attachment B: Adoption Resolution).

Public education and outreach is an on-going mitigation measure included in the Municipal Appendix.⁹ In addition, public participation will continue to be encouraged during subsequent plan implementation and maintenance activities.¹⁰

⁸ https://cchmpu21.com/documents

⁹ See Mitigation Measure M-1 in Part 4 of the Municipal Appendix.

¹⁰ Public education and outreach [will be] described in Section 4: Mitigation Measures of the CC HMPU Base Plan.

Part 3: Hazard Identification and Risk Assessment

Part 3 includes seven subparts:

- Part 3.1: Profile
- Part 3.2: General Building Stock
- Part 3.3: Critical Facilities
- Part 3.4: Hazard Exposure Assessment
- Part 3.5: Demographic Considerations
- Part 3.6: Observations
- Part 3.7: Hazard Priorities

Part 3.1: Municipal Profile

Shiloh Borough is located in the northwestern portion of Cumberland County (See Figure 12-1).

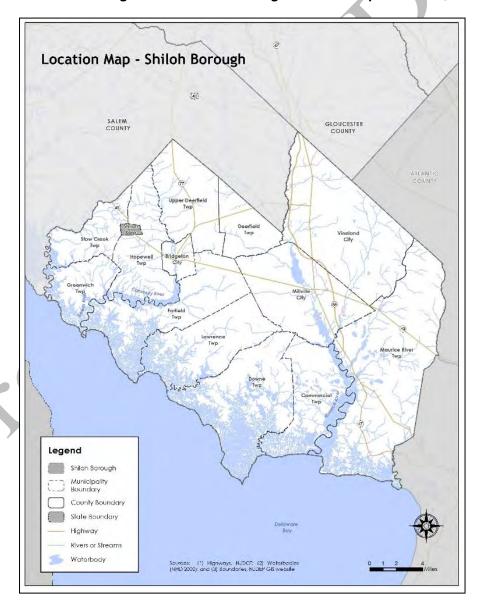


Figure 12-1: Shiloh Borough Location Map

Shiloh Borough is a small rural community with a rich natural, religious, and historic heritage. A large portion of the community is reserved for agricultural uses. The resulting open lands also provide seasonal stopping points for a selection of migratory animals.

Per Figure 12-2, the major water course in the municipality is Shaw Branch. Major transportation routes include State Highway Route 49 and Cumberland County 753. The land is predominantly flat.



Figure 12-2: Shiloh Borough Base Map

Part 3.2: General Building Stock

As of 2015, there are 325 buildings in Shiloh Borough with a total assessed value of improvements of \$36,424,300. Figure 12-3 shows the footprints of these buildings.

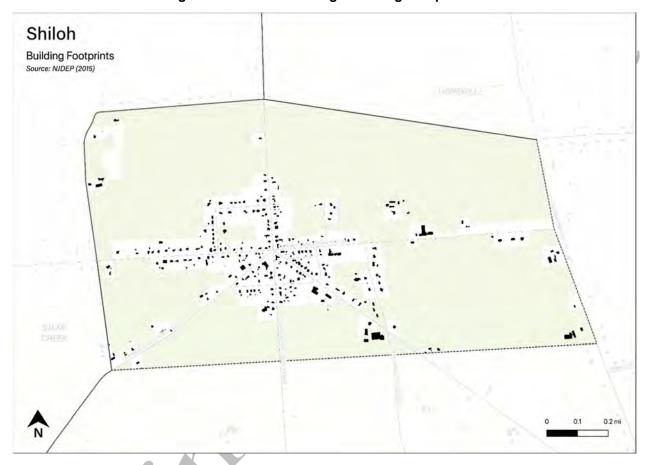


Figure 12-3: Shiloh Borough Building Footprints¹¹

Table 12-3 [will show] the distribution of these structures according to land use distinctions.

Land Use Type

Residential

Commercial

Industrial

Number of Buildings

TBD

TBD

TBD

Table 12-3: Shiloh Borough Buildings per Land Use Type¹²

¹¹ Building footprint data was isolated from "Impervious Surfaces" data (2015) per https://gisdata-nidep.opendata.arcgis.com/. Note: This (map/publication/report) was developed using New Jersey Department of Environmental Protection Geographic Information System digital data, but this secondary product has not been verified by NJDEP and is not state-authorized or endorsed.

¹² Land use types **[will be]** isolated from MOD-IV Parcels and Tax Assessor data composite (2021) per https://njogis-newjersey.opendata.arcgis.com/documents/parcels-and-mod-iv-of-cumberland-county-nj-shp-download/about from the New Jersey Office of GIS

Part 3.3: Critical Facilities¹³

As of July 2021, there are eighteen critical facilities in Shiloh Borough.

Critical facilities are prime candidates for mitigation measures due to important functions staged from these facilities prior to, during, and after natural hazards including emergency services and housing vulnerable populations.

Table 12-4 includes current inventory information for municipal critical facilities [and will include] cross-references to related mitigation measures [to be] identified in Part 4 of the Municipal Appendix. Figure 12.4 shows the location of these critical facilities.

Table 12-4: Shiloh Borough Critical Facilities Inventory

| CF# | Name | Туре | Sub-Type | Address | Co-located CF # | Shelter (Y/N) | Generator (Y/N) | Comments | Mitigation Measure # |
|------|---|----------------------------|-----------------------------------|--|--------------------|------------------|--------------------|---|-------------------------|
| CF-1 | Borough Hall | Municipal | Administrative Office | 900 Main Street, Shiloh | | N | Υ | Generator needs replacement | [TBD] |
| CF-2 | Seventh Day Baptist Church of Shiloh | Emergency Staging Areas | Equipment Mobilization | 116 East Avenue / P.O. Box 145, Shiloh | | Y | N | Generator needs replacement. Facility has potential as congregate shelter, and cooling / heating station. | [TBD] |
| CF-3 | Cumberland Mutual Insurance Corporate Headquarters | Emergency Staging Areas | Private Corporate Headquarters | 633 Shiloh Pike, Bridgeton | | Z | Y | 50,000 SF facility; designed to withstand Category 3 hurricane winds (Same as Hopewell Township CF-18) | [TBD] |

¹³ Critical facility definitions and considerations [will be] described in Section 3: Hazard Identification and Risk Assessment of the CC HMPU Base Plan.



Figure 12-4: Shiloh Borough Critical Facilities

Note: All mapping corresponding to results described in Parts 3.3 through 3.5 can be viewed in .pdf format at: https://www.dropbox.com/sh/u34fg5qw0m20jbk/AABXdG9-Kxbl8vGoiKOJqv9La?dl=0

Part 3.4: Hazard Exposure Assessment

Hazard exposure assessments [will be completed] for the twelve (12) natural hazards identified in the CC HMPU Base Plan¹⁴.

Key results for Shiloh Borough are depicted in the following.

<u>Mapping</u>: Figure 12-5 is illustrative of the type of mapping available as a result of the hazard exposure assessment. This figure shows critical facilities that are located near wildfire hazard zones.

¹⁴ Hazard profiles will be included for all twelve natural hazards in Section 3: Hazard Identification and Risk Assessment of the CC HMPU Base Plan.

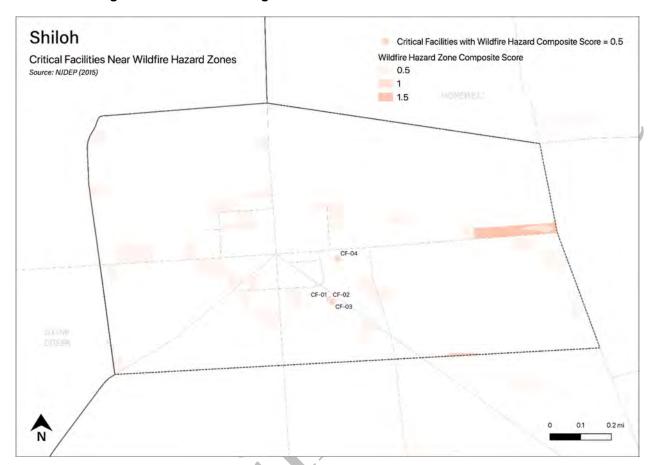


Figure 12-5: Shiloh Borough Critical Facilities and Wildfire Hazard Zones

Mapping results are available for the following hazards (where applicable for individual jurisdictions):

- Coastal Erosion & Sea Level Rise
- Dam Failure [pending data from NJDEP]
- Earthquake
- Extreme High Temperature
- Flood per FEMA FIRM mapping
- Flood per National Flood Insurance Program data [pending data from FEMA Region II]
- Geologic Hazards
- High Wind and Severe Weather (heavy summer rains and winter snow loads)
- Levee Failure [pending data from NJDEP]
- Wildfire

<u>Tabulations</u>: Selected data culled from the hazard exposure assessment process is displayed in the following tables:

- Table 12-5 indicates hazard exposure for general building stock
- Table 12-6 indicates hazard exposure for critical facilities

Table 12-5: Shiloh Borough General Building Stock Hazard Exposure

| Hazard | Number of Exposed Buildings | Percent of Total Buildings in the Jurisdiction | Value of Exposed Buildings | Percent of Total Value in the Jurisdiction |
|--|-----------------------------------|---|----------------------------------|--|
| Coastal Erosion ¹⁵ | 0 | N/A | 0 | N/A |
| Sea Level Rise - 3 feet increase | 0 | N/A | 0 | N/A |
| Flood - Within 1 % Annual Chance Zone | 0 | N/A | 0 | N/A |
| Flood - Near (within 500 feet) of 1% Annual Chance Zone | 0 | N/A | 0 | N/A |
| Earthquake – Structure built before 1927 ¹⁶ | 136 | 50% | \$16,650,700 | 48% |
| High Winds / Severe Weather – Structure built before 1975 | 239 | 89% | \$28,311,500 | 81% |
| Wildfire – Composite score > 2.5 ¹⁷ | 0 | N/A | 0 | N/A |

Table 12-6: Shiloh Borough Critical Facilities Hazard Exposure¹⁸

| Hazard | Number of Critical Facilities | CF #s |
|--|-------------------------------|-------|
| Coastal Erosion | None | N/A |
| Sea Level Rise | None | N/A |
| Flood - Within 1 % Annual Chance Zone | None | N/A |
| Flood - Near (within 500 feet) of 1% Annual Chance Zone | None | N/A |
| Flood – Future potential (within 1,000 feet) 1% Annual Chance Zone | None | N/A |
| Wildfire | None | N/A |

In addition, all critical facilities in Cumberland County are exposed to the following hazards and potentially subject to power outages, and structural and/or contents damage:

- Earthquake
- Extreme Temperatures
- Severe Weather Summer (including heavy rains)
- Severe Weather Winter (including heavy snow loads)

All supporting data for Coastal Erosion, Sea Level Rise (3-foot rise), Flood (all) can be viewed at https://docs.google.com/spreadsheets/d/1fcN5hL3Jz4X7mldFyKs6wol6J6IAR9bSsvJPIgE_A0Q/edit?usp=sharing
 All supporting data for Earthquake, High Winds, and Severe Weather can be viewed at https://docs.google.com/spreadsheets/d/1JAbfd3A-eCHI93pZFaPVuM_H2yvuUzeHCmoijv-oxsw/edit?usp=sharing
 All supporting data for critical facility hazard exposure can be viewed at

¹⁸ All supporting data for critical facility hazard exposure can be viewed at https://docs.google.com/spreadsheets/d/1MPLiOANm7fHoyKuxyWqyang26LTSPayTxJvLmK5IGPg/edit?usp=sharing

Part 3.5: Demographic Considerations

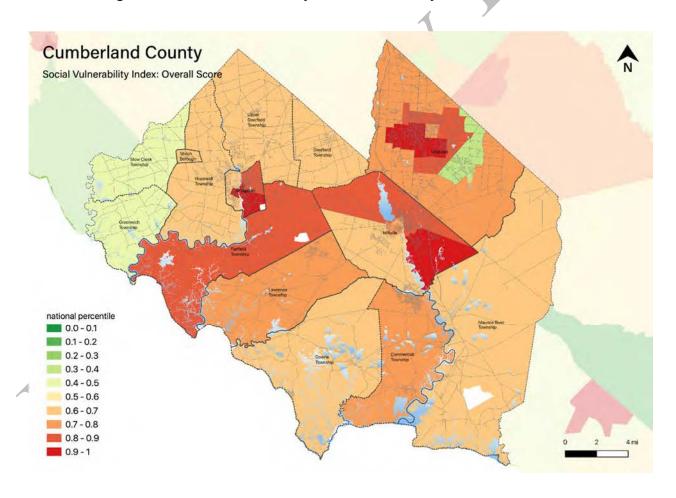
Demographic considerations include general population and land use factors. Table 12-7 includes current population estimates and changes since the previous US Census¹⁹:

Table 12-7: Shiloh Borough General Population Demographics

| Metric | Percentile |
|---|------------------|
| Percentage of persons: Living in group quarters | 93 rd |
| Percentage of persons: Living in mobile homes | 90 th |
| Percentage of persons: Older than 65 years of age | 89 th |
| Percentage of persons: With a disability | 80 th |

Demographic considerations also include differences in social vulnerability²⁰. Figure 12-6 shows the overall Social Vulnerability (SVI) Index overall scores for Cumberland County.

Figure 12-6: Cumberland County Social Vulnerability Index: Overall Scores



¹⁹ US Census, 2019 ACS 5 Year Estimates, Table ID DP5

²⁰ Social vulnerability considerations [will be] described in *Section 3: Hazard Identification and Risk Assessment* of the CC HMPU Base Plan.

For Shiloh Borough, Table 12-8 includes selected metrics where social vulnerability considerations are notably higher when compared with all national census tracts:

Table 12-8: Shiloh Borough Social Vulnerability Considerations²¹

| Metric | Percentile |
|---|------------------|
| Percentage of persons: Living in group quarters | 93 rd |
| Percentage of persons: Living in mobile homes | 90 th |
| Percentage of persons: Older than 65 years of age | 89 th |
| Percentage of persons: With a disability | 80 th |

In addition, the percentage of residents earning below poverty level = 7.3% (compared with the average in New Jersey of 10.4%).

Part 3.6: Observations

- Outreach and guidance should be provided for residents, business owners, and property owners for:
 - Older buildings to help evaluate potential risk of damage due to hazards such as Earthquake, High Winds, and Severe Winter Weather (i.e., heavy snow loads).
- All critical facilities are potentially vulnerable to Earthquake, High Winds, and Severe Weather (heavy rains in summer and snow loads in winter).
- Priority for follow-up should also be focused on critical facilities housing vulnerable populations related to Extreme Temperature and Severe Weather hazards. For example, determining and documenting (cross referencing EOP) how residents will be moved to facilities providing shelter including cooling and warming centers (all of which would need adequate back-up power and hardening).

²¹ All supporting data for SVI can be viewed at https://docs.google.com/spreadsheets/d/10zb_Qlg2CgGxb45_fcKiP46swaC16-foRxyTIOiAkP0/edit#gid=1481479799

Part 3.7: Hazard Priorities [review / confirm or revise highlighted entries]

As a key step in the Hazard Identification and Risk Assessment (HIRA) process, the twelve (12) natural hazards identified in the CC HMPU Base Plan were discussed during the Municipal Working Group Work Sessions and the relative priority of these hazards was identified.

Based on their personal experience as well as the results of the HIRA, the Municipal Working Group rated the hazards as follows:

High Priority

None

Moderate Priority

- Extreme Temperature: Cold & Hot
- High Wind
- Severe Weather Summer
- Severe Storm Winter Weather

Low Priority

- Drought
- Earthquake
- Flood
- Wildfire

Four additional hazards were identified but were not considered applicable to the municipality:

- Coastal Erosion and Sea Level Rise
- Dam Failure
- Levee Failure
- Geologic Hazards

Part 4: Mitigation Measures

Part 4 includes six subparts:

- Part 4.1: Mitigation Goals and Strategy
- Part 4.2: NJ4 HMP Mitigation Measures
- Part 4.3: Municipal Mitigation Measures Identification
- Part 4.4: Municipal Mitigation Measures Implementation
- Part 4.5: Multi-Jurisdictional Mitigation Measures
- Part 4.6: Authorities, Policies, Programs, Resources, and Plan Integration

Part 4.1: Mitigation Goals and Strategy [review / confirm or revise highlighted entries]

Goals were originally established by the SDVR Hazard Mitigation Steering Committee and validated by the four County Hazard Mitigation Working Groups in response to risk and capability assessment results.

As part of the NJ4 HMP plan update process, these goals were reviewed and edited by the Municipal Working Groups for use in the Municipal Appendices. In addition, the Municipal Working Groups for the CC HMPU reviewed and [reaffirmed/edited] these goals for continued use in the Appendices.

All mitigation measures in the Municipal Appendix are related to at least one of these four goal statements.

- Goal 1: Improve education and outreach efforts regarding potential risk of natural hazards and appropriate mitigation measures that can be used to reduce risk (including programs, activities, and projects)
- Goal 2: Improve data collection, use, and sharing to reduce the risk of natural hazards
- Goal 3: Improve capabilities and coordination at municipal, county, and state levels to plan and implement hazard mitigation measures
- Goal 4: Plan and implement projects to mitigate identified natural hazards, known problems, and areas of concern

Based on these goals, the results of the HIRA, and experience of participants in the plan update process, the Municipal Working Group identified an overarching strategy for mitigation:

- Identify and address known problems or areas of concern for critical facilities and vulnerable populations
- Provide opportunities for residents and property owners to access available information about risk reduction and mitigation measures, in particular for Repetitive Flood Loss properties
- Institutionalize hazard mitigation into municipal activities and programs through regular interactions of the Municipal Working Group and integration of related regulatory programs and planning initiatives
- Stay informed regarding changing conditions and related improvements in hazard and risk data
 due to future natural hazard events and increasing understanding of the effects of climate change
 and use the information as part of periodic evaluations of and refinements or additions to the
 municipality's mitigation program

The mitigation measures [to be] described in Parts 4.3 through 4.5 of the Municipal Appendix reflect this strategy.

Part 4.2: NJ4 HMP Mitigation Measures

Known problems and areas of concern were the basis for mitigation measures identified in the NJ4 HMP. In cases where these problems and concerns still exist at the time of the CC HMPU, the related NJ4 HMP mitigation measures [will be] candidates for inclusion in the Municipal Appendix.

Table 12-9 identifies the status of mitigation measures included in the NJ4 HMP. These entries were based on information provided by the Municipal Working Group. In some cases, the NJ4 HMP mitigation measures [will be] carried over as part of the Municipal Appendix as [will be] indicated in the "Comments" column and the far right-hand column of Table 12-9.

Table 12-9: Status of Shiloh Borough NJ4 HMP Mitigation Measures

| Mitigation Action, Program, or Project | Status | Comments | Mitigation Measure # ²²²³ |
|--|---|--|---|
| M-1: Identify and pursue outreach and education opportunities to inform municipal residents, businesses, and property owners. | | Work-in-progress included the | |
| M-2: Prioritize critical facilities and complete site and facility surveys to identify vulnerabilities and potential mitigation measures. | Work-in-progress | Borough website has provided links for the NJ4 HMP and the current CC HMPU planning process. | To be carried over as part of M-1 |
| M-3: Conduct regular Municipal Working Group meetings. | 9 | | |
| M-4: Install permanent backup emergency power generator at Seventh Day Baptist Church of Shiloh (primary Shiloh Borough shelter) (CF-2). | Not completed, not funded | | To be carried over as [# TBD] |
| M-5: Install permanent backup emergency power generator at Public Works facility. | Not completed, no longer considered valid | Critical facility is no longer in operation | |
| M-6: Risk assessment of wellhead at former Shiloh Borough School to determine possibility of wellhead failure due to several natural hazards resulting in potentially damaging flooding at the Municipal Building (EOC). | Not completed, no longer considered valid | School sold and under renovation by private owner. Building well head is now separate from municipal building. | |
| M-7: Retrofit / harden municipal building include new roof and windows (CF-1). | Not completed, not funded | Building has two windows and a door that are not wind resistant. | To be carried over as [# TBD] |

²² Detailed information for identification and implementation of municipal (M-#) mitigation measures [will be included] in Tables 12-10 and 8-11.

²³ Detailed information for identification and implementation of multi-jurisdictional (MJ-#) mitigation measures [will be included] in Table 12-12.

Part 4.3: Municipal Mitigation Measures – Identification

Table 12-10 [will include] the list of mitigation measures that are considered the responsibility of the municipality. These mitigation measures:

- Reflect the goals and strategy identified in Part 4.1
- Include projects carried over from NJ4 HMP as detailed in Part 4.2
- Include new projects, programs or activities identified by the Municipal Working Groups including measures to address known problems or areas of concern for critical facilities and vulnerable populations
- Address Repetitive Flood Loss (RL) and Severe Repetitive Flood Loss Properties (SRL)²⁴ if applicable

Table 12-10 [will include]:

- Brief description of the mitigation action, program, or project
- Hazard(s) addressed by the measure
- Relevant goal(s) addressed by the measure
- Whether the measure pertains to existing or new structures or both

Note: Mitigation measures with discrete locations [will be] shown in Figure 8-7.

Table 12-10: Shiloh Borough Municipal Mitigation Measures Identification

| # | Mitigation Action, Program, or Project | Hazard(s) | Goal (s) | Existing or New Structures |
|-----|--|-----------|----------|----------------------------|
| M-1 | Municipal Mitigation Program – including sustained efforts in cooperation with Cumberland County Office of Emergency Management (CC OEM) to: Conduct outreach and education for residents, businesses, and property owners Complete critical facility field evaluations to identify potential vulnerabilities and mitigation measures Compile relevant data regarding hazard impacts Support regular interactions of the Municipal Working Group Seek integration of hazard mitigation with other parallel planning initiatives | All | All | All |
| | Y | | | |
| | / | | | |
| | | | | |
| | | | | |

²⁴ Section 3: Hazard Identification and Risk Assessment of the CC HMPU Base Plan [will include] a description of RL and SRL properties.

Part 4.4: Municipal Mitigation Measures - Implementation

Table 12-11 [will include] information identified by the Municipal Working Group:

- Part(ies) responsible for following up with implementation of the measure
- Priority for implementation considering a range of criteria²⁵
- Project Type to help determine funding options and implementation mechanisms at the municipal level²⁶
- Estimated Cost, including estimates provided by the Municipal Working Group or approximate ranges for projects that are in early stages of development
- Target Date, indicating desired completion dates assuming availability of funding
- Next step(s) anticipated to implement the identified mitigation measures at the municipal level

Table 12-11: Shiloh Borough Municipal Mitigation Measures Implementation

| # | Mitigation Action, Program, or Project | Responsible Part(ies) | Priority | Project Type | Estimated Cost (\$) | Target Date | Next Step(s) |
|-----|---|--------------------------------------|----------|--------------|------------------------|----------------------------------|---|
| M-1 | Municipal Mitigation Program | Office of Emergency Management | High | Program | Staff Time | On-going, sustained effort | Identify outreach and education objectives and methods (working with CC OEM) Set priorities (if necessary) and initiate critical facility field assessments Identify schedule for plan updates (for plan integration efforts) |
| | | | | | | | |
| | | | 7 | | | | |
| | | 7 | | | | | |
| | A | 7 | | | | | |

²⁵ Section 4: Mitigation Measures of the CC HMPU Base Plan [will include] a description of evaluation criteria considered by the Municipal Working Group

considered by the Municipal Working Group.

²⁶ Section 4: Mitigation Measures of the CC HMPU Base Plan [will include] a description of project types and related information regarding funding options and implementation mechanisms.

Part 4.5: Multi-Jurisdictional Mitigation Measures

During the Municipal Working Group Work Sessions, the Municipal Working Group [will identify] some NJ4 HMP mitigation measures that need to be carried over, as well as new areas of concern, as mitigation measures where implementation requires participation or leadership from other levels of government, including county, state, and federal agencies. These multi-jurisdictional mitigation measures [will be] included in Table 12-12.

Section 4: Mitigation Measures of the CC HMPU Base Plan [will describe] multi-jurisdictional implementation strategies in detail. Section 4 [will identify] multi-jurisdictional mitigation measures that Municipal Working Groups believe are partly or wholly the responsibility of County agencies. These measures [will be] referred to the County Working Group for consideration. As part of the mitigation measures in the County Appendix to the NJ4 HMP Regional Hazard Mitigation Plan, the County Working Group will be working with the municipalities to identify:

- Specific responsibilities amongst different level(s) of government to address these problem areas
- Mitigation measures or related projects which may address the described problem areas that are already acknowledged as County responsibilities including identifying the appropriate County agency or department taking the lead role and status of implementing these mitigation measures
- Which, if any, additional mitigation measures the member agencies of the County Working Group will assume responsibility to implement

Note: Multi-jurisdictional mitigation measures with discrete locations [will be] shown in Figure 8-7.

Table 12-12: Shiloh Borough Multi-Jurisdictional Mitigation Measures

| # | Problem Description | Hazard(s) Addressed | Goal Addressed | Applies to Existing or New Structures | Potential Partners | Priority |
|---|------------------------|------------------------|-------------------|--|-----------------------|----------|
| | | • / | | | | |
| | | | | | | |
| | | | | | | |

Figure 8-7: Shiloh Borough Mitigation Project Locations



Part 4.6: Authorities, Policies, Programs, Resources, and Plan Integration

Part 4.6 includes three (3) subparts:

- Authorities, Policies, and Programs Cross referencing relevant information and recommendations in the CC HMPU Base Plan regarding existing authorities, policies, and programs in the region and specific information about the jurisdiction's participation and continued compliance in the National Flood Insurance Program (NFIP)
- <u>Capabilities and Coordination</u> Cross referencing relevant information and recommendations in the CC HMPU Base Plan regarding improving capabilities and coordination at the municipal level and specific information about the jurisdiction's available resources
- <u>Plan Review and Integration</u> Identifying plans and programs included in the development of Plan Integration recommendations in the CC HMPU Base Plan

Authorities, Policies, and Programs

Section 1.3: Existing Authorities, Policies, Programs, and Resources of the CC HMPU Base Plan will summarize relevant authorities, policies, and programs related to hazard mitigation in the County including the NFIP.

Continuing municipal participation in the NFIP as part of the implementation of the CC HMPU by the municipality, includes:

- Involvement of Floodplain Manager / Administrator during the CC HMPU implementation process
- Commitment to adopt updated FIRMs and evaluate / update the municipality's Flood
 Management Plan and/or Ordinance as appropriate per recommendations [to be included] in
 Section 4.6 of the CC HMPU Base Plan

Capabilities and Coordination

The update of the NJ4 HMP [will include] reexamining municipal hazard mitigation capabilities; potential for improving capabilities and coordination within and between jurisdictions; and plan integration considerations, including:

- Section 1.3: Existing Authorities, Policies, Programs, and Resources of the CC HMPU Base Plan [will include] summary statements regarding county and municipal resources and the impact of resource limitations on the overall approach to the CC HMPU mitigation strategies.
- Section 4: Mitigation Measures of the CC HMPU Base Plan [will include] summary observations and recommendations concerning:
 - Hazard mitigation planning and mitigation measure implementation capabilities and coordination at the county and municipal levels
 - Coordination within municipal governments, between municipal governments and their communities, and between municipal, county, and state agencies responsible for hazard mitigation

Plan Review and Integration

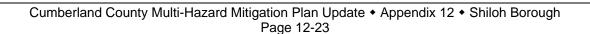
Specific documents obtained during the plan update process from the Municipal Working Group include:

- Hopewell Township Emergency Operations Plan (2019)
- Master Plan (1989)
- Municipal Stormwater Management Plan (2021)
- Development Ordinance of 1979 as Amended June 1, 1999
- Capital Improvement Budget (2021)

Table BP.4-4 in Section 4.6: Plan Review and Integration of the CC HMPU Base Plan:

- [Will identify] the primary plans and documents collected from each of the participating municipalities.
- [Will include] the results of reviewing the primary plans and documents to determine the extent to which these documents reflect up-to-date hazard risk and mitigation.
- [Will include] recommendations for integrating the results of the CC HMPU, including hazard mitigation data, goals, measures, and/or recommendations with existing plans and programs at the municipal level that are relevant to all participating municipalities and incorporated by reference in each of the jurisdiction-specific Appendices including:
 - Hazard Assessments
 - Emergency Operations Plans
 - Floodplain Management Ordinances
 - Master Plans and Reexamination Reports
 - Other plans and documents

The plan maintenance process [will articulate and specify] a commitment to review and follow these recommendations during future scheduled updates of these various documents as considered appropriate by the Working Group and the governing body of the municipality.



Public review comments [will be] recorded during the public review of the Shiloh Borough Preliminary Draft and Draft versions of the Municipal Appendix on [dates to be determined]:

Table 12.A-1: Public Review Comments

| Comment Date and Time | Comment | Response | |
|-----------------------|---------|----------|--|
| | | | |
| | | | |
| | | | |

Following this page [will be] the Adoption Resolution for the Shiloh Borough Municipal Appendix as approved by the Shiloh Borough Committee.



Following this page [will be] the Approval Letter for the Shiloh Borough Municipal Appendix.

