



SOMERSET COUNTY

HAZARD MITIGATION PLAN

SOMERSET COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

FINAL PLAN UPDATE
JULY 2019

www.co.somerset.nj.us/hmp

Section 9.13: Borough of Millstone Annex

*Prepared by the Somerset County
Mitigation Planning Committee*



9.13 Borough of Millstone

This section presents the jurisdictional annex for the Borough of Millstone, (hereinafter referred to as Millstone Borough or Millstone).

9.13.1 HAZARD MITIGATION PLAN POINTS OF CONTACT

Hazard Mitigation Plan Points of Contact					
Primary Point of Contact			Alternate Point of Contact		
Name: Raymond Heck, E.M. Coordinator Address: 1353 Main Street Millstone Borough , NJ 08844 Phone Number: 908-359-5787 Fax Number: 908-359-7164 E-mail Address: mayor@millstoneboro.org			Name: Joseph Dempster, Deputy E.M. Coordinator Address: 1353 Main Street Millstone Borough , NJ 08844 Phone Number: 908-413-2889 Fax Number: 908-359-7164 E-mail Address: joe.dempster@gmail.com		
Municipal HMP Committee Members					
Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development	Agreed to participate? (Yes/No)
Land Use/Community Planner	Carter Van Dyke	cvdljr@aol.com		10/25/2017	yes
Emergency Manager	Raymond Heck	mayor@millstoneboro.org	908-359-5787	10/25/2017	yes
Floodplain Manager/ Floodplain Administrator	Dan Devoti	ddevoti@millstoneboro.org		10/25/2017	yes
Public Works Director / City Engineer	Matt Loper	engineeringdiv@co.somerset.nj.us	908-231-7024	10/25/2017	yes
Building Code Official	State DLA	blair@da.state.gov	609-367-3653	10/25/2017	yes
Fiscal/Budget Officer	Larry Pollix	lppollex@optonline.net	908-359-5783	10/25/2017	yes
Manager/Administrator	Greg Bonin	millstoneclerk@comcast.net	908-359-5783	10/25/2017	yes
Elected Officials					
Other 1:	Scott Ross	sjross@comcast.net	908-359-5783	10/25/2017	yes
Other 2:	Alan Kidd	944kidd@yahoo.com	908-359-5783	10/25/2017	yes
Other 3:	John Stashek	jstashek75@comcast.net	908-359-5787	10/25/2017	yes

9.13.2 PROFILE

9.13.2.1 Population

The population of Millstone Borough is estimated to be 418, based on information gathered during the 2010 U.S. Census. Census population estimates of July 2017 indicated a total population of 420.

9.13.2.2 Location

Located along the west side of the Millstone River in central Somerset County, Millstone Borough is bordered by Hillsborough to the west and Franklin to the east.

9.13.2.3 Brief History

The Millstone area was first settled by Quakers, around 1690. In proceeding years other settlers including the Dutch, Scots, English and Germans settled the area for the rich farmland and religious freedom, offered by New Jersey. In 1738 the county seat was moved from Six Mile Run to what is now Millstone and the town was designated Somerset Courthouse. By the time of the revolution, Somerset Courthouse was a bustling rural center.

In 1871, Somerset Courthouse along with Neshanic became one of two election districts in Hillsborough. In 1874 the county seat was moved once more to Somerville; the town of Somerset Courthouse was renamed Millstone. Politically, it remained a part of Hillsborough until it was incorporated as a Borough on May 14, 1894.

9.13.2.4 Governing Body Format

Millstone Borough is governed by a mayor and council form of government. The Borough has one mayor and six council members. All members of the government are of a voluntary nature. The Borough also contains a staff of: tax assessor, deputy tax assessor, tax collector, deputy tax collector, registrar, clerk, counsel, treasurer, magistrate, health officer, deputy health officer, and building inspector.

9.13.2.5 Growth/Development Trends

Millstone did not note any major residential or commercial development, or major infrastructure development planned for the next 5 years in the municipality (updated in 2018).

New Development/Potential Development in Municipality						
Property Name	Type (Residential or Commercial)	No. of Structures	Address	Block and Lot	Known Hazard Zone	Description /Status
N/A	N/A	N/A	N/A	N/A	N/A	N/A

The Borough's Development Ordinance and Floodplain Ordinance will work to protect new development from the effects of natural hazards.

9.13.3 NATURAL HAZARD EVENT HISTORY SINCE 2014

Somerset County has a history of natural hazard events as detailed in Section 5.0 of this plan. A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities. The table below presents a summary of events that have occurred since the 2014 HMP to indicate the range and impact of natural hazard events in the community. Information regarding specific damages is included if available based on reference material or local sources. For details of events prior to 2014, refer to Section 5.0 of this plan.

Natural Hazard Event History (2014 to present)				
Type of Event	FEMA Disaster # (if applicable)	County Designated?	Date	Approximate Damage Assessment
Cold/Wind Chill	N/A	N/A	January 4, 2014	No local damage reported
Strong Wind	N/A	N/A	January 6, 2014	No local damage reported
Flood	N/A	N/A	January 6, 2014	No local damage reported
Cold/Wind Chill	N/A	N/A	January 7, 2014	No local damage reported
Cold/Wind Chill	N/A	N/A	January 22, 2014	No local damage reported
Winter Storm	N/A	N/A	February 12, 2014	No local damage reported
Flood	N/A	N/A	February 22, 2014	No local damage reported
Strong Wind	N/A	N/A	March 12, 2014	No local damage reported
Flood	N/A	N/A	March 30, 2014	No local damage reported
Flood	N/A	N/A	April 1, 2014	No local damage reported
Thunderstorm Wind	N/A	N/A	April 15, 2014	No local damage reported
Flood	N/A	N/A	April 15, 2014	No local damage reported
Flood	N/A	N/A	April 30, 2014 to May 1, 2014	No local damage reported
Thunderstorm Wind	N/A	N/A	May 10, 2014	No local damage reported
Earthquake, Magnitude 1.9, 6 km N of Boonton (Montville Twp.)	N/A	N/A	May 31, 2014	No local damage reported
Earthquake, Magnitude 1.0, 13 km SW of Ramblewood, NJ (Laurel Springs Boro.)	N/A	N/A	June 19, 2014	No local damage reported
Thunderstorm Wind	N/A	N/A	July 2, 2014	No local damage reported
Heat	N/A	N/A	July 2, 2014	No local damage reported
Thunderstorm Wind	N/A	N/A	July 3, 2014	No local damage reported
Flash Flood	N/A	N/A	July 3, 2014	No local damage reported
Thunderstorm Wind	N/A	N/A	July 8, 2014	No local damage reported
Earthquake, Magnitude 1.6, 3 km W of Jersey City, NJ (Kearny Town)	N/A	N/A	July 8, 2014	No local damage reported
Flood	N/A	N/A	July 16, 2014	No local damage reported
Earthquake, Magnitude 1.2, 4 km SW of Ringwood, NJ (Ringwood Boro.)	N/A	N/A	July 28, 2014	No local damage reported

Natural Hazard Event History (2014 to present)				
Type of Event	FEMA Disaster # (if applicable)	County Designated?	Date	Approximate Damage Assessment
Flash Flood	N/A	N/A	August 21, 2014	No local damage reported
Earthquake, Magnitude 1.3, 2 km S of Park Ridge, NJ (Woodcliff Lake Boro.)	N/A	N/A	September 3, 2014	No local damage reported
Flood	N/A	N/A	December 9, 2014	No local damage reported
Earthquake, Magnitude 1.9, 13 km SE of Twin Rivers, NJ (Millstone Twp.)	N/A	N/A	December 13, 2014	No local damage reported
Earthquake, Magnitude 1.5, 2 km SW of Clifton, NJ (Bloomfield Twp.)	N/A	N/A	December 28, 2014	No local damage reported
Cold/Wind Chill	N/A	N/A	January 7, 2015	No local damage reported
Flood	N/A	N/A	January 18, 2015	No local damage reported
Strong Wind	N/A	N/A	February 2, 2015	No local damage reported
Cold/Wind Chill	N/A	N/A	February 13, 2015	No local damage reported
Strong Wind	N/A	N/A	February 15, 2015	No local damage reported
Cold/Wind Chill	N/A	N/A	February 15, 2015	No local damage reported
Cold/Wind Chill	N/A	N/A	February 16, 2015	No local damage reported
Cold/Wind Chill	N/A	N/A	February 20, 2015	No local damage reported
Cold/Wind Chill	N/A	N/A	February 24, 2015	No local damage reported
Flood	N/A	N/A	March 11, 2015	No local damage reported
Flood	N/A	N/A	March 14, 2015	No local damage reported
Earthquake, Magnitude 1.2, 2 km SW of Clifton, NJ (Bloomfield Twp.)	N/A	N/A	March 27, 2015	No local damage reported
Strong Wind	N/A	N/A	April 4, 2015	No local damage reported
Flash Flood	N/A	N/A	May 31, 2015	No local damage reported
Earthquake, Magnitude 1.2, 2 km N of Wanaque, NJ (Ringwood Boro.)	N/A	N/A	July 12, 2015	No local damage reported
Heat	N/A	N/A	July 19, 2015	No local damage reported
Earthquake, Magnitude 2.7, 3.5 km N of Bernardsville, NJ (Bernardsville Boro.)	N/A	N/A	August 14, 2015	No local damage reported
Flash Flood	N/A	N/A	August 19, 2015	No local damage reported
Flood	N/A	N/A	August 19, 2015	No local damage reported
Earthquake, Magnitude 1.4, 5 km WNW of Fairfield, NJ (Fairfield Twp.)	N/A	N/A	August 22, 2015	No local damage reported
Drought and Excessive Heat	N/A	N/A	April 2015 – September 2015	No local damage reported
Combined effects of freeze, excessive heat, and drought	N/A	N/A	April 2016 – September 2016	No local damage reported

Natural Hazard Event History (2014 to present)				
Type of Event	FEMA Disaster # (if applicable)	County Designated?	Date	Approximate Damage Assessment
Earthquake, Magnitude 2.1, 2.4 km NW of Ringwood, NJ (Ringwood Boro.)	N/A	N/A	January 2, 2016	No local damage reported
Severe Winter Storm and Snowstorm (Blizzard)	DR-4264	Yes	January 22-24, 2016	No local damage reported
Earthquake, Magnitude 1.1, 1.1 km NW of Butler, NJ (Bloomingdale Boro.)	N/A	N/A	February 19, 2016	No local damage reported
Flash Flood	N/A	N/A	February 24, 2016	No local damage reported
Thunderstorm Wind	N/A	N/A	April 2, 2016	No local damage reported
Earthquake, Magnitude 0.8, 4.4 km N of Butler, NJ (Bloomingdale Boro.)	N/A	N/A	May 27, 2016	No local damage reported
Lightning	N/A	N/A	June 8, 2016	No local damage reported
Thunderstorm Wind	N/A	N/A	June 8, 2016	No local damage reported
Lightning	N/A	N/A	June 28, 2016	No local damage reported
Thunderstorm Wind	N/A	N/A	June 28, 2016	No local damage reported
Earthquake, Magnitude 1.1, 1 km NW of Butler, NJ (Butler Boro.)	N/A	N/A	July 4, 2016	No local damage reported
Heavy Rain	N/A	N/A	July 8, 2016	No local damage reported
Flood	N/A	N/A	July 8, 2016	No local damage reported
Thunderstorm Wind	N/A	N/A	July 18, 2016	No local damage reported
Thunderstorm Wind	N/A	N/A	July 25, 2016	No local damage reported
Thunderstorm Wind	N/A	N/A	July 25, 2016	No local damage reported
Thunderstorm Wind	N/A	N/A	July 25, 2016	No local damage reported
Flood	N/A	N/A	July 25, 2016	No local damage reported
Heavy Rain	N/A	N/A	July 30, 2016	No local damage reported
Heavy Rain	N/A	N/A	July 31, 2016	No local damage reported
Heavy Rain	N/A	N/A	July 31, 2016	No local damage reported
Heavy Rain	N/A	N/A	July 31, 2016	No local damage reported
Heavy Rain	N/A	N/A	July 31, 2016	No local damage reported
Heavy Rain	N/A	N/A	July 31, 2016	No local damage reported
Heavy Rain	N/A	N/A	July 31, 2016	No local damage reported
Flash Flood	N/A	N/A	July 31, 2016	No local damage reported
Earthquake, Magnitude 0.8, 2.2 km SW of Clifton, NJ (Bloomfield Twp.)	N/A	N/A	July 31, 2016	No local damage reported
Earthquake, Magnitude 1.0, 2 km N of Wanaque, NJ (Wanaque Boro.)	N/A	N/A	August 9, 2016	No local damage reported

Natural Hazard Event History (2014 to present)				
Type of Event	FEMA Disaster # (if applicable)	County Designated?	Date	Approximate Damage Assessment
Earthquake, Magnitude 0.5, 1 km N of Butler, NJ (Bloomingdale Boro.)	N/A	N/A	August 9, 2016	No local damage reported
Earthquake, Magnitude 0.6, 5 km NE of Wanaque, NJ (Ringwood Boro.)	N/A	N/A	September 20, 2016	No local damage reported
Earthquake, Magnitude 1.5, 2.6 km W of Bellmar, NJ (Westville Boro.)	N/A	N/A	November 6, 2016	No local damage reported
Earthquake, Magnitude 2.0, 16.3 km E of Highlands, NJ (Middletown Twp.)	N/A	N/A	November 6, 2016	No local damage reported
Earthquake, Magnitude 1.31, 1.4 km S Morris Plains, NJ (Morris Plains Boro.)	N/A	N/A	March 25, 2017	No local damage reported
Flood	N/A	N/A	March 31, 2017	No local damage reported
Hail	N/A	N/A	May 14, 2017	No local damage reported
Hail	N/A	N/A	May 31, 2017	No local damage reported
Flood	N/A	N/A	June 24, 2017	No local damage reported
Flood	N/A	N/A	July 22, 2017	No local damage reported
Flood	N/A	N/A	August 22, 2017	No local damage reported
Flood	N/A	N/A	August 22, 2017	No local damage reported
Heavy Rain	N/A	N/A	August 23, 2017	No local damage reported
Earthquake, Magnitude 1.71, 3.7 km SW of Morris Plains, NJ (Morris Twp.)	N/A	N/A	September 25, 2017	No local damage reported
Earthquake, Magnitude 0.98, 2.7 km SW of Morris Plains, NJ (Morris Twp.)	N/A	N/A	September 30, 2017	No local damage reported
Flood	N/A	N/A	October 29, 2017	No local damage reported
Earthquake, Magnitude 1.38, 3.5 km NW of Keansburg, NJ (Keansburg Boro.)	N/A	N/A	November 8, 2017	No local damage reported
Severe Winter Storm and Snowstorm (Blizzard)	DR-4368	Yes	March 6, 2018	Although all portions of the county experienced significant snowfall from this event, the higher amounts (around one and one half feet) occurred in the eastern sections of the county closer to the off shore low pressure system. Thundersnow also occurred in a few locations.

Note:

DR = Major Disaster Declaration

EM = Emergency Declaration

N/A = Not applicable

9.13.4 NATURAL HAZARD RISK/VULNERABILITY RISK RANKING

The table below summarizes the vulnerability risk rankings of potential hazards of the Borough of Millstone (updated in 2018).

Natural Hazard Risk/Vulnerability Risk Ranking				
Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard ^{a, c}	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking ^b
Flood	1% Annual Chance: \$1,800,000 0.2% Annual Chance: \$3,100,000	Frequent	33	High
Severe Storm	100-Year MRP: \$55,751 500-Year MRP: \$316,766 Annualized Loss: \$2,518	Frequent	30	Medium
Severe Winter Storm	1% of GBS: \$55,751 5% of GBS: \$316,766	Frequent	27	Medium
Earthquake	500-Year MRP: \$77,998 2,500-Year MRP: \$1,183,405 Annualized Loss: \$1,179	Occasional	12	Low
Drought	Not available	Occasional	12	Low
Extreme Temperature	Not available	Frequent	27	Medium
Wildfire	Not available	Occasional	24	Medium

Note

- Building damage ratio estimates based on FEMA 386-2 (August 2001)
- The valuation of general building stock and loss estimates was based on custom inventory for Somerset County.
- High = Total hazard priority risk ranking score of 31 and above
Medium = Total hazard priority risk ranking of 15-30
Low = Total hazard risk ranking below 15
- Loss estimates for the severe storm and severe winter storm hazards are structural values only and do not include the value of contents.
- Loss estimates for the flood and earthquake hazards represent both structure and contents.
- The HAZUS-MH earthquake model results are reported by Census Tract.

9.13.5 CAPABILITY ASSESSMENT

This section describes the following capabilities of the local jurisdiction:

- Legal and regulatory capability;
- Administrative and technical capability;
- Fiscal capability;
- Community resiliency;
- Community political capability; and
- Community classification.

9.13.5.1 Legal and Regulatory Capability

The table below summarizes the regulatory tools that are available to Millstone Borough. The Borough reviewed its responses from the 2014 HMP and has updated any information that has changed since that time.

Legal and Regulatory Capability			
Regulatory Tools (Codes, Ordinances, Plans)	Do you have this? (Y or N)	Enforcement Authority	Code Citation (Section, Paragraph, Page Number, Date of Adoption)
1) Building Code	Y	Dan Devoti, Zoning Officer	International Building Code – New Jersey Edition, NJAC 5:24-3.14; 2/20/07
2) Zoning Ordinance	Y	Dan Devoti, Zoning Officer	State land use laws 4055d Municipal development ordinances
3) Subdivision Ordinance	N	-	-
4) NFIP Flood Damage Prevention Ordinance	Y	Dan Devoti, Zoning Officer	Flood Damage Protection Ordinance; 9/28/07
4a) Cumulative Substantial Damages	-	-	-
4b) Freeboard	-	-	-
5) Growth Management	-	-	-
6) Floodplain Management / Basin Plan	-	-	-
7) Stormwater Management Plan/Ordinance	Y	-	2008
8) Comprehensive Plan / Master Plan/ General Plan	Y	Planning Board	2009, Update every 5 years
9) Capital Improvements Plan	N	-	-

Legal and Regulatory Capability			
Regulatory Tools (Codes, Ordinances, Plans)	Do you have this? (Y or N)	Enforcement Authority	Code Citation (Section, Paragraph, Page Number, Date of Adoption)
10) Site Plan Review Requirements	Y	Planning Board	-
11) Open Space Plan	Y	-	2010
12) Stream Corridor Management Plan	-	Somerset County	-
13) Watershed Management or Protection Plan	-	Millstone watershed commission	-
14) Economic Development Plan	N	-	-
15) Comprehensive Emergency Management Plan	Y	-	-
16) Emergency Response Plan	Y	-	2/22/2007
17) Post-Disaster Recovery Plan	N	-	Disaster management annex for EOP
18) Post-Disaster Recovery Ordinance	N	-	-
19) Real Estate Disclosure Requirement	N	-	-
20) Other (Special Purpose Ordinances such as critical or sensitive areas)	N	-	-

9.13.5.2 Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to Millstone Borough. The Borough reviewed its responses from the 2014 HMP and has updated any information that has changed since that time.

Administrative and Technical Capability		
Staff / Personnel Resources	Available (Y or N)	Department / Agency / Position
1) Planner(s) or Engineer(s) with knowledge of land development and land management practices	Y	Contracted services
2) Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Y	Contracted services
3) Planners or engineers with an understanding of natural hazards	Y	Contracted services
4) NFIP Floodplain Administrator	Y	Dan Devoti, Zoning Officer
5) Surveyor(s)	Y	Contracted services
6) Personnel skilled or trained in GIS applications	Y	Contracted services
7) Scientist familiar with natural hazards	N	
8) Emergency Manager	Y	Joseph Dempster, OEM Coordinator Raymond Heck, OEM Coordinator
9) Grant Writer(s)	N	
10) Staff with expertise or training in benefit/cost analysis	Y	Contracted services

9.13.5.3 Fiscal Capability

The table below summarizes financial resources available to the Borough of Millstone. The Borough reviewed its responses from the 2014 HMP and has updated any information that has changed since that time.

Fiscal Capability	
Financial Resources	Accessible or Eligible to use (Yes/No/Don't know)
1) Community Development Block Grants (CDBG)	Y
2) Capital Improvements Project Funding	Y
3) Authority to levy taxes for specific purposes	Y
4) User fees for water, sewer, gas or electric service	N
5) Impact fees for homebuyers or developers of new development/homes	N
6) Incur debt through general obligation bonds	Y
7) Incur debt through special tax bonds	Y
8) Incur debt through private activity bonds	N
9) Withhold public expenditures in hazard-prone areas	Y
10) State mitigation grant programs	N
11) Other	-

9.13.5.4 Overall Capabilities

The Borough of Manville’s 2018 assessment of its overall capabilities to implement hazard mitigation strategies in each of the above categories, in addition to their local assessment of how these capabilities could be expanded and/or improved to reduce risk, is presented in the table below.

Overall legal and regulatory capability to implement hazard mitigation strategies	Overall technical capability to implement hazard mitigation strategies	Overall fiscal capability to implement hazard mitigation strategies	Overall administrative capability to implement hazard mitigation strategies	Community’s willingness to enact policies and programs that reduce hazard vulnerabilities
Moderate	Moderate	Moderate	Moderate	Moderate
How these capabilities can be expanded and/or improved to reduce risk				
No opportunities were identified by the Borough.				

9.13.5.5 Community Classifications

The table below summarizes classifications for community program available to Millstone Borough. The Borough reviewed its responses from the 2014 HMP and has updated any information that has changed since that time.

Community Classifications		
Program	Classification	Date Classified
Community Rating System (CRS)	NP	-
Building Code Effectiveness Grading Schedule (BCEGS)	NP	-
Public Protection	NP	-
Storm Ready	NP	-
Firewise	NP	-

Notes:

- = Unavailable

N/A = Not applicable

NP = Not participating.

The classifications listed above relate to Millstone’s ability to provide effective services to lessen its vulnerability to the natural hazards identified. These classifications can be viewed as a gauge of the community’s capabilities in all phases of emergency management (preparedness, response, recovery and mitigation) and are used as an underwriting parameter for determining the costs of various forms of insurance. The CRS Class applies to flood insurance, while the BCEGS and Public Protection classifications apply to standard property insurance. CRS classifications range on a scale of 1 to 10 with Class 1 being the best possible classification, and Class 10 representing no classification benefit. Firewise classifications include a higher classification when the subject property is located beyond 1,000 feet of a creditable fire hydrant and is within 5 road miles of a recognized fire station.

Criteria for classification credits are outlined in the following documents:

- The Community Rating System Coordinators Manual

- The Building Code Effectiveness Grading Schedule
- The ISO Mitigation online ISO's Public Protection website at <http://www.isomitigation.com/ppc/0000/ppc0001.html>
- The National Weather Service Storm Ready website at <http://www.weather.gov/stormready/howto.htm>
- The National Firewise Communities website at <http://firewise.org/>

9.13.6 MITIGATION STRATEGY

This section discusses past mitigations actions and status, identifies hazard vulnerabilities, and describes proposed hazard mitigation initiatives.

9.13.6.1 Past Mitigation Actions/Status

The status of all 2014 HMP initiatives was evaluated by the Borough of Manville in 2018 and is presented in the following table. The community has indicated that local priorities have not changed since the last version of the plan.

2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
MS1	Road Flooding Safety: Continue cooperative relationship with Somerset County regarding maintenance of gage at Route 514 crossing of the Millstone River.	Medium	Flood	Emergency Management Coordinator			x		Ongoing type of activity; has been done and will continue	x		No changes.
MS2	Conduct a study of the effectiveness and capacity of existing Borough detention basins.	Medium	Flood	Emergency Management Coordinator			x		Some work has been completed; other opportunities may arise	x		Somerset County Public Works and Engineering have jurisdiction on detention basins.
MS3	Work with Hillsborough Township as well as private property owners in the Borough to assure adequate stormwater detention and maintenance.	Low	Flood	Emergency Management Coordinator			x		Ongoing type of activity; has been done and will continue	x		Any stormwater control devices within the control of Millstone Borough are maintained. Private property owners are encouraged to maintain devices, if any, on their property.
MS4	The Borough will continue the "angel" program whereby individual property owners who live outside the floodplain look after individual property owners in the flood plain.	Medium	Flood	Emergency Management Coordinator		x			We have a plan in place to assist homeowners in the flood plain during emergencies	x		Plan is more comprehensive than in the previous cycle as we have a greater eye on special needs.

2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
MS5	Millstone Borough will require that property owners in the floodplain will secure any hazardous material containers to avoid spills during a flood and/or severe storm event.	Medium	All	Emergency Management Coordinator			x		Ongoing type of activity; has been done and will continue	x	Millstone OEM continuously interacts and monitors both commercial and private properties for hazardous material storage. Commercial properties are informed to update the Fire Department if any new materials that are to be stored on the premises.	

2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
MS6	Public Participation: The Borough should 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: implement a web-site based program to inform their residents of the threats of flooding and the benefits of flood insurance as well as provide links for weather and flood information.	High	Flood	Emergency Management Coordinator			x		During annual town wide yard sale, Borough provides public information on environmental stewardship. This includes the danger our poor handling and storage of hazardous material and the impact on the environment. We will provide a section on the governmental web site for this information and links for useful tools	x		No changes.
MS7 (MS2)	The Borough, working through the Flood Mitigation Planning Committee, should consider participation in CRS program. Phase 1 of this action will be to implement measures to address one or more of the 18 activities in the Community Rating System to reduce or minimize property owner flood insurance premiums.	High	Flood	Emergency Management Coordinator			x		Borough will review options with program during this cycle.	x		No changes.

2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
MS8	Obtain and archive elevation certificates: Contact all NFIP policy holders to ascertain that their individual elevation certificates are correct. If not correct the elevation certificates will be amended accordingly and a commensurate adjustment in the flood insurance premium for those structures will take place.	Medium	Flood, Severe Storm	Borough Engineer, NFIP Floodplain Administrator			x		Ongoing type of activity that is a requirement of participation in the NFIP		x	Existing capability and requirement of NFIP participation.
MS9	Where existing easements call for maintenance of a channel or other water conveying infrastructure, the Borough will ensure that the easement will be properly maintained for public health, safety and welfare.	Medium	Flood	Borough Engineer, NFIP Floodplain Administrator			x		Ongoing type of activity; has been done and will continue		x	Existing capability; Millstone Borough maintains all stormwater control devices within the control of the local government.
MS10	Incorporation of Flood Mitigation Planning into Local Ordinances, Emergency Management Plan and Master Planning: Revision of Flood Damage Prevention Ordinance.	High	Flood	Chair, Borough Planning Board; Attorney		x			While we have ordinances that identify this issue, we will be reviewing and updating as soon as our flood mitigation of homes project is completed.	x		No changes.
MS11	Incorporation of Disaster Mitigation Planning in Master Plan: Incorporate Flood Overlay Zone into Borough Zoning Ordinance to control and mitigate future development in hazard areas, specifically as identified in Section 9.13.11.	High	Flood	Chair, Borough Planning Board; Attorney		x			This will be reviewed on the next plan update. Referred to governing body to discuss.	x		No changes.

2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
MS12	Implement a Stormwater Management Ordinance for Redeveloped Residential and Commercial Areas.	Medium	Flood	Borough Council		x			This will be discussed by governing body.	x		No changes.
MS13	Regional Cooperation and Coordination to Reduce Flooding Impacts. This may include helping to develop damage assessment capabilities at the local level and certification of qualified individuals (e.g. floodplain managers, engineers).	Medium	Flood	Borough Council with support from County, NJOEM and FEMA			x		Funding and staffing levels.	x		No change.
MS14	Prioritize Riparian Areas for Open Space Acquisition and Conservation**	High	All	Chair, Borough Planning Board; Attorney			x		While an excellent approach, funding for acquisition may be a challenge.	x		No changes.
MS15	Identification of Flood Emergency Technical and Financial Assistance Sources in Emergency Operations Plan.	Medium	Flood	Emergency Management Coordinator			x		Will review during our annual update.	x		No changes.

2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
MS16 (MS1)	Private Property Flood Mitigation: Initiate Flood Mitigation Measures and support retrofits for Repetitive Loss Structures to protect structures from future damage, including the relocation of two SRL properties and elevation of one house in the flood plain. Phase 1: Identify appropriate candidates based on cost-effectiveness. Phase 2: Where determined to be a viable option, work with property owners toward implementation of the determined action based on available funding from FEMA and local match availability.	High	Floods	Borough Council, Borough Engineering Department; SC Engineering, NJOEM, FEMA			x		We are currently undertaking many projects that identify this issue. Further funding may be needed for future projects. We maintain a close relationship with the property owners and will continue to support all options.	X		No changes.
MS17	Identify and Contact Funding Sources**	Medium	All	Borough Council			x		Ongoing activity	x		No changes.
MS18	Evaluate, obtain, and install new or upgraded backup power sources at critical facilities. This action should include, but is not limited to, the provision of a dedicated fuel source at Millstone EOC	High	All Hazards	Municipality with support from County, NJOEM				x	Funding	X		Extended power outages from Super Storm Sandy have caused the Borough to consider these actions.

2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
MS19 (MS4)	Participate in multi-jurisdictional update of Somerset County All Hazards Mitigation Plan. Continue to support the implementation, monitoring, maintenance, and updating of this Plan (through participating in the 5 year Plan Update), as defined in Section 7.0	High	All Hazards	Municipality with support from Planning Partners, County Planning, NJOEM, FEMA			x		Ongoing type of activity; has been done and will continue.		x	Existing capability; will continue to support and participate as needed.
MS20 (MS5)	Continue to develop, enhance and implement existing emergency plans, and to support ongoing updates of Comprehensive Emergency Management Plans	High	All Hazards	Municipality with support from County Emergency Management			x		Ongoing type of activity; has been done and will continue.	x		Existing capability; will continue to monitor and update plans as needed.
MS21 (MS-6)	Clear debris under county bridges	Medium	Flooding	Somerset County DPW; Millstone DPW			x		We clean the best we can with the County aiding as needed. It is an ongoing issue.	x		No changes.
MS22 (MS-7)	Clear debris from streams	High	Flooding	Millstone DPW			x		This is an ongoing program.	x		No changes.

2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
MS23 (MS-11)	Review, implement, and enforce town's policies and programs to prevent trees from threatening lives and impacting power availability/interruption.	High	All	Millstone DPW, Municipal Code Enforcement			x		This is an ongoing program.	x		Ongoing tree monitoring and removal program in budget; no changes.
MS24 (MS-12)	Strive to maintain compliance with and good-standing in the National Flood Insurance program.	Medium	Flood	Township Engineer			x		Ongoing activity; has been done and will continue.		x	Existing capability; ongoing commitment and encouragement for residents will continue.

2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
MS25	Conduct and facilitate community and public education and outreach for residents and businesses to include, but not be limited to, the following to promote and effect natural hazard risk reduction: Provide and maintain links to the HMP website, and regularly post notices on the County/municipal homepage(s) referencing the HMP webpages. Prepare and distribute informational letters to flood vulnerable property owners and neighborhood associations, explaining the availability of mitigation grant funding to mitigate their properties, and instructing them on how they can learn more and implement mitigation. Use email notification systems and newsletters to better educate the public on flood insurance, the availability of mitigation grant funding, and personal natural hazard risk reduction measures. Work with neighborhood associations, civic and business groups to disseminate information on flood insurance and the availability of mitigation grant funding.	High	All Hazards	Municipality with support from Planning Partners, County Planning, NJOEM, FEMA			x		Ongoing type of activity; has been done and will continue.	x		Continuous outreach and program support.
MS26	Improve communication systems.	Medium	All Hazards	Municipality with support from County, NJOEM and FEMA		x			System upgrade has been completed; Waiting for County to recode all radios.	x		Will continue to support and upgrade as needed.

2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
MS27	Develop programs/procedures to capture and archive loss data from events. Examples include: Record location and length of roadway closures; Develop a database of residential and commercial property damage, including permit history for such repairs; High water marks, perhaps painting phone poles with high water marks and or regulatory Base Flood Elevations (BFEs).	Medium	All Hazards	Municipality with support from County, NJOEM and FEMA	x				We have both a paper and computer based program for this.		x	Existing capability; we recognize the importance for institutional history with both response and loss of records.

2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
MS28	Participate in local, county and/or state level projects and programs to develop improved structure and facility inventories and hazard datasets to support enhanced risk assessment efforts. Such programs may include developing a detailed inventory of critical facilities based upon FEMA's Comprehensive Data Management System (CDMS) which could be used for various planning and emergency management purposes including: Support the performance of enhanced risk and vulnerability assessments for hazards of concern. Support state, county and local planning efforts including mitigation (including updates to the State HMP), comprehensive emergency management, debris management, and land use. Improved structural and facility inventories could incorporate flood, wind and seismic-specific parameters (e.g. first floor elevations, roof types, structure types based on FEMA-154 "Rapid Visual Screening of Buildings for Potential Seismic Hazards" methodologies). It is recognized that these programs will need to be initiated and supported at the County and/or State level, and will require training, tools and funding provided at the county, state and/or federal level.	Medium	All Hazards	Hazard Mitigation Plan Coordinator			x		We support and encourage staff to educate and train in this area.	X	We recognize the importance of this area of education and will support our staff to schedule and attend.	

2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
MS29	Create/Enhance/Maintain Mutual Aid agreements with neighboring communities for continuity of operations.	High	All Hazards	Municipality with support from County, NJOEM, FEMA and surrounding communities		x			We have informal agreements with our neighboring communities. We will consider a more formal relationship down the road.	x		The Borough recognizes that the need for more formal agreement that are reduced to writing.
MS30	Identify and develop agreements with entities that can provide support with FEMA/NJOEM paperwork after disasters; qualified damage assessment personnel – Improve post-disaster capabilities – damage assessment; FEMA/NJOEM paperwork compilation, submissions, record-keeping.	Medium	All Hazards	Municipality with support from County, NJOEM and FEMA			x		Working with County to utilize existing software and necessary training for damage assessment.	x		County purchased Orion software and will train and work with Millstone Borough with regards to damage assessment.
MS31	Promote the participation of Floodplain Administrators within the planning process and other activities.	Medium	Flood	Municipality with support from County, NJOEM and FEMA	x				Ongoing activity.		x	Our Floodplain Administrator is a regular participant in all of the planning in the Borough.
MS32	Enhance the County/community resilience to severe storms (incl. severe winter storms) by joining the NOAA "Storm Ready" program and supporting communities in joining the program.	Medium	Severe Storm	Municipality with support from County, NJOEM and FEMA		x			We have put the information out to our residents on social media and will continue to support the registering with Storm Ready.	x		We use examples of previous storms to support the registering of the program.

2014 HMP Initiative #	Mitigation Initiative Description	2014 HMP Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
MS33	Adopt regulations for undergrounding utilities in new developments.	High	Severe Storm	Municipal Council				x	Lack of funding would hinder support for this program.	x		We will explore this issue again in the near future.
MS34	Implement permit fee waivers for installation of backup power for private property.	High	Severe Storm	Municipal Council		x			We do a shared service agreement with the State DCA. They would be the agency who would make that decision.	x		With the increase of inquiries on backup power generators, we would support waivers in the interest of public health and safety.
MS35	Provide public education and outreach on proper installation and/or use of backup power.	High	Severe Storm	Municipal Clerk				x	While not initiated, we could provide information to homeowners.	x		With the interest of power back up units since Superstorm Sandy, we could explore this.

9.13.6.2 Hazard Vulnerabilities Identified

The Borough indicates the community has suffered from ongoing flooding. The issue includes damages to public structures and private property. The flooding also disrupts municipal services.

During Hurricane Sandy, Millstone OEM lost power to the EOC, which is located in an older energy inefficient building. While the use of portable generators helped, it became a challenge to find a fuel source. The building is located outside the flood zone and is utilized around the clock. Millstone has the ability to monitor and check the unit on a scheduled basis.

Borough officials also noted that during the 2001 NRCS structure survey, a benchmark depicted on the Millstone Borough Flood Insurance Study map was approximately eight feet lower than the actual elevation. The elevation had been used to develop Elevation Certificates for the NFIP rating for several structures there. As a result, a number of property owners may be paying more than necessary for their flood insurance.

It is estimated that in the Millstone Borough, 44 residents live within the 1% annual chance flood area (NFIP Special Flood Hazard Area). \$42,410,000 (57.7%) of the municipality's general building stock replacement cost value (structure and contents) is located within the 1% annual chance flood area.

There are 14 NFIP policies in the community and there are 9 policies located within the 1% annual chance flood area. FEMA has identified 13 Repetitive Loss (RL) properties including 1 Severe Repetitive Loss (SRL) properties in the municipality.

HAZUS-MH estimates that for a 1% annual chance flood, \$1,800,000 (2.45%) of the municipality's general building stock replacement cost value (structure and contents) will be damaged, 35 households may be displaced, 4 people may seek short-term sheltering, and an estimated 143 tons of debris could be generated.

Further information regarding the summary of the community's participation in the NFIP is provided in the table below.

NFIP Summary								
Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 1% Boundary (3)	# Policies in 0.2% - Boundary (3)	# Policies Outside the 0.2% Flood Hazard (3)
Millstone (B)	14	88	\$3,350,616	13	1	9	1	4

Source:

- (1) Policies, claims, repetitive loss and severe repetitive loss statistics provided by FEMA Region 2 via NJDEP in August 2017 and are current as of March 31, 2017. Please note the total number of repetitive loss properties includes the severe repetitive loss properties.
- (2) Information regarding total building and content losses was gathered from the claims file provided by FEMA Region 2 (current as of Borough of Millstone).
- (3) The policy locations used are based on the latitude and longitude provided by FEMA Region 2.

HAZUS-MH critical facility damage estimates for Millstone Borough are \$0. No critical facilities are currently reported in HAZUS-MH for Millstone Borough.

Critical Facility Damage Estimate										
Name	Municipality	Type	Exposure		Potential Loss from 1% Flood Event			Potential Loss from 0.2% Flood Event		
			1% Event	0.2% Event	Percent Structure Damage	Percent Content Damage	Days to 100-Percent ⁽¹⁾	Percent Structure Damage	Percent Content Damage	Days to 100-Percent ⁽¹⁾
-	-	-	-	-	-	-	-	-	-	-

Source: HAZUS-MH 4.0

Notes:

- = No loss (calculated by HAZUS-MH 4.0)
- X = Facility located within the DFIRM boundary.
- DFIRM = Digital Flood Insurance Rate Map
- NA = Not available
- B = Borough

- (1) HAZUS-MH 4.0 provides a general indication of the maximum restoration time for 100% operations. Clearly, a great deal of effort is needed to quickly restore essential facilities to full functionality; therefore, this will be an indication of the maximum downtime (HAZUS-MH 4.0 User Manual).
- (2) Please note in some cases, a facility may be located in the DFIRM flood hazard boundary; however HAZUS did not calculate potential loss. This may be because the depth of flooding does not amount to any damages to the structure according to the depth damage function used in HAZUS for that facility type.

Please refer to the Hazard Profiles in Section 5 of this plan for additional vulnerability information relevant to this jurisdiction.

9.13.7 PROPOSED HAZARD MITIGATION INITIATIVES

The list below represents a summary of community mitigation initiatives developed in 2018 as part of the most recent plan update. The Borough of Millstone has identified no changes in local priorities since the last version of the plan in 2014. Detailed Action Worksheets are included only for NEW Mitigation Actions/Projects. Some of the identified mitigation initiatives in the table below are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities. Please note that the Borough has opted to carry forward legacy initiative numbers from the 2014 and 2009 plans, respectively, for internal municipal tracking purposes, formatted as: “2019# [2014# (2009#)]”.

Proposed Hazard Mitigation Initiatives														
2019 Initiative Number	Initiative Name	Initiative Description	New Initiative Or Carried Forward?	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	2018 Action Status
MS1 [[MS1]]	County Mitigation Project, Gauges	Road Flooding Safety: Continue cooperative relationship with Somerset County regarding maintenance of gage at Route 514 crossing of the Millstone River.	Carried Forward	Existing	Flood	1,3	Emergency Management Coordinator	Medium	Low		OG	Medium	Capability, PR	Ongoing type of activity; has been done and will continue.
MS2 [[MS2]]	Flood Research	Conduct a study of the effectiveness and capacity of existing Borough detention basins.	Carried Forward	Existing	Flood	1	Emergency Management Coordinator	Medium	Medium	Municipal Budget	Short	Medium	Capability, PR	Ongoing; some work has been completed, other opportunities may arise.
MS3 [[MS3]]	Stormwater Detention Maintenance	Work with Hillsborough Township as well as private property owners in the Borough to assure adequate stormwater detention and Maintenance.	Carried Forward	N/A	Flood	1,3	Emergency Management Coordinator	Low	Medium	Municipal Budget	Long	Low	Capability, PR NR	Ongoing type of activity; has been done and will continue.
MS4 [[MS4]]	Angel Plan	The Borough will continue the “angel” program whereby individual property owners who live outside the floodplain look after individual property owners in the flood plain.	Carried Forward	Existing	Flood	5,13	Emergency Management Coordinator	Low	Low	Municipal Budget	OG	Medium	Capability, PE	Initiated but not completed. We have a plan in place to assist homeowners in the floodplain during emergencies.
MS5 [[MS5]]	Public Outreach, Hazardous Waste Cataloging	Millstone Borough will require that property owners in the floodplain will secure any hazardous material containers to avoid spills during a flood and/or severe storm event.	Carried Forward	N/A	All	5,10,13	Emergency Management Coordinator	Medium	Low	Municipal Budget	Short	Medium	Capability	Ongoing type of activity; has been done and will continue.

Proposed Hazard Mitigation Initiatives														
2019 Initiative Number	Initiative Name	Initiative Description	New Initiative Or Carried Forward?	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	2018 Action Status
MS6 [[MS6]]	Public Outreach and Education, Hazard Risk Reduction	Public Participation: The Borough should 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: implement a web-site based program to inform their residents of the threats of flooding and the benefits of flood insurance as well as provide links for weather and flood information.	Carried Forward	Both	Flood	5,13	Emergency Management Coordinator	Medium	Low		Short	High	Capability, PE	Ongoing. During annual town wide yard sale, we provide public information on environmental stewardship. This includes the danger our poor handling and storage of hazardous material and the impact on the environment. We will provide a section on the governmental web site for this information and links for useful tools
MS7 [MS7 (MS2)]	CRS Program	The Borough, working through the Flood Mitigation Planning Committee, should consider participation in CRS program. Phase 1 of this action will be to implement measures to address one or more of the 18 activities in the Community Rating System to reduce or minimize property owner flood insurance premiums.	Carried Forward	Both	Flood	12	Emergency Management Coordinator	High - reduce/minimize flood damages and flood insurance premiums as well as many other benefits	Low-Medium	Municipal Budget		High	Action/Project, PR PR	Ongoing; we'll review options with program during this cycle.
MS8 [[MS10]]	Flood Mitigation Planning	Incorporation of Flood Mitigation Planning into Local Ordinances, Emergency Management Plan and Master Planning: Revision of Flood Damage Prevention Ordinance.	Carried Forward	Both	Flood	8,9	Chair, Borough Planning Board Attorney	Medium	Low	Municipal Budget	Short	High	Capability, PR	Initiated but not completed. While we have ordinances that identify this issue, we will be reviewing and updating as soon as our flood mitigation of homes project is completed.
MS9 [[MS11]]	Disaster Mitigation Planning	Incorporation of Disaster Mitigation Planning in Master Plan: Incorporate Flood Overlay Zone into Borough Zoning Ordinance to control and mitigate future development in hazard areas, specifically as identified in Section 9.13.11.	Carried Forward	Both	Flood	8,9	Chair, Borough Planning Board Attorney Chair, Borough Planning Board Attorney	Medium	Low	Municipal Budget	Short	High	Action/Project, PR	Initiated but not completed. This will be reviewed on the next plan update. Referred to governing body to discuss.

Proposed Hazard Mitigation Initiatives														
2019 Initiative Number	Initiative Name	Initiative Description	New Initiative Or Carried Forward?	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	2018 Action Status
MS10 [(MS12)]	Stormwater Management Ordinance	Implement a Stormwater Management Ordinance for Redeveloped Residential and Commercial Areas.	Carried Forward	Both	Flood	8,9	Borough Council	Medium - ensure sufficient stormwater capacity as impervious surface area increases	Medium	Municipal Budget	Short	Medium	Action/Project, PR	Initiated but not completed. This will be discussed by governing body.
MS11 [(MS13)]	Emergency Management, Damage Assessment	Helping to develop damage assessment capabilities at the local level and certification of qualified individuals (e.g. floodplain managers, engineers).	Carried Forward	N/A	Flood	3	Borough Council with support from County, NJOEM and FEMA	Medium	Medium	Municipal Budget, FEMA HMA and HLS grant programs	Short-Long Term DOF	Medium	Action/Project, PR	Ongoing; funding and staffing levels are limited.
MS12 [(MS14)]	Open Space Acquisition	Prioritize Riparian Areas for Open Space Acquisition and Conservation.	Carried Forward	N/A	All	10	Chair, Borough Planning Board Attorney	High	Medium	Borough Operating Budget, HMA	Long	High	Action/Project, PR NR	Ongoing; while an excellent approach, funding for acquisition may be a challenge.
MS13 [(MS15)]	Emergency Operations Plan, Flood Tool Identification	Identification of Flood Emergency Technical and Financial Assistance Sources in Emergency Operations Plan.	Carried Forward	N/A	Flood	7	Emergency Management Coordinator	Medium	Low	Borough Operating Budget	Short	Medium	Capability, PR ES	Ongoing; will review during our annual update.
MS14 [MS16 (MS1)]	Flood Mitigation, SRL Properties	Private Property Flood Mitigation: Initiate Flood Mitigation Measures and support retrofits for Repetitive Loss Structures to protect structures from future damage, including the relocation of two SRL properties and elevation of one house in the flood plain. Phase 1: Identify appropriate candidates based on cost-effectiveness; Phase 2: Where determined to be a viable option, work with property owners toward implementation of the determined action based on available funding from FEMA and local match availability.	Carried Forward	Existing	Floods	4	Borough Council, Borough Engineering Department, SC Engineering, NJOEM, FEMA	High	Medium	FEMA FMA, SRL, RFC, HMGP or PDM Grant and Borough operating budget for cost share	Long	High	Capability, PP PE	Ongoing. We are currently undertaking many projects that identify this issue. Further funding may be needed for future projects. We maintain a close relationship with the property owners and will continue to support all options.
MS15 [(MS17)]	Grants	Identify and Contact Funding Sources.	Carried Forward	N/A	All	All	Borough Council	High	Low	Municipal Budget		Medium	Capability, All	Ongoing type of activity.
MS16 [(MS18)]	Hardening Critical Facilities	Evaluate, obtain, and install new or upgraded backup power sources at critical facilities. This action should include, but is not limited to, the provision of a dedicated fuel source at Millstone EOC.	Carried Forward	N/A	All Hazards	4,6,7	Municipality with support from County, NJOEM	High - avoid future power loss to critical emergency facilities, as occurred during hurricane Sandy	Medium	HMA, Municipal Budget	Short	High	Action/Project, PP	Not initiated; funding issues.

Proposed Hazard Mitigation Initiatives														
2019 Initiative Number	Initiative Name	Initiative Description	New Initiative Or Carried Forward?	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	2018 Action Status
MS17 [MS20 (MS5)]	Emergency Management Plan	Continue to develop, enhance and implement existing emergency plans, and to support ongoing updates of Comprehensive Emergency Management Plans	Carried Forward	New and Existing	All Hazards	8,9	Municipality with support from County Emergency Management	Low	Low	Municipal Budget	On-going	High	Capability, PR	Ongoing type of activity; has been done and will continue.
MS18 [MS21 (MS-6)]	Mitigation Maintenance	Clear debris under county bridges	Carried Forward	Existing asset	Flooding	10	Somerset County DPW; Millstone DPW	High	Medium	Municipal Budget	On-going	Medium	Capability, PR NR	Ongoing; we clean the best we can with the County aiding as needed. It is an ongoing issue.
MS19 [MS22 (MS-7)]	Mitigation Maintenance	Clear debris from streams	Carried Forward	Existing asset	Flooding	10	Millstone DPW	High	Low	Operating Budget	Short	High	Capability, PR NR	This is an ongoing program.
MS20 [MS23 (MS-11)]	Tree Maintenance, Power Lines	Review, implement, and enforce town's policies and programs to prevent trees from threatening lives and impacting power availability/ interruption.	Carried Forward	Both	All	2,3,5,8	Millstone DPW, Municipal Code Enforcement	High	Low	Operating Budget	Short	High	Capability, PR	This is an ongoing program.
MS21 [(MS25)]	Public Outreach & Education	Conduct and facilitate community and public education and outreach for residents and businesses to include, but not be limited to, the following to promote and effect natural hazard risk reduction: Provide and maintain links to the HMP website, and regularly post notices on the County/municipal homepage(s) referencing the HMP webpages. Prepare and distribute informational letters to flood vulnerable property owners and neighborhood associations, explaining the availability of mitigation grant funding to mitigate their properties, and instructing them on how they can learn more and implement mitigation. Use email notification systems and newsletters to better educate the public on flood insurance, the availability of mitigation grant funding, and personal natural hazard risk reduction measures. Work with neighborhood associations, civic and business groups to disseminate information on flood insurance and the availability of mitigation grant funding.	Carried Forward	N/A	All Hazards	5,13	Municipality with support from Planning Partners, County Planning, NJOEM, FEMA	Medium	Medium	Municipal Budget, HMA programs with local or county match	Short Term	High	Capability, PE	Ongoing type of activity; has been done and will continue

Proposed Hazard Mitigation Initiatives														
2019 Initiative Number	Initiative Name	Initiative Description	New Initiative Or Carried Forward?	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	2018 Action Status
MS22 [(MS26)]	Communication Improvements	Improve communication systems.	Carried Forward	N/A	All Hazards	5,6,7,13	Municipality with support from County, NJOEM and FEMA	Medium	Medium	Municipal Budget	Short	Medium	Capability, ES PR	Initiated but not completed. System upgrade has been completed; Waiting for County to recode all radios.
MS23 [(MS28)]	All Hazards Emergency Management Planning	Participate in local, county and/or state level projects and programs to develop improved structure and facility inventories and hazard datasets to support enhanced risk assessment efforts. Such programs may include developing a detailed inventory of critical facilities based upon FEMA's Comprehensive Data Management System (CDMS) which could be used for various planning and emergency management purposes including: Support the performance of enhanced risk and vulnerability assessments for hazards of concern. Support state, county and local planning efforts including mitigation (including updates to the State HMP), comprehensive emergency management, debris management, and land use. Improved structural and facility inventories could incorporate flood, wind and seismic-specific parameters (e.g. first floor elevations, roof types, structure types based on FEMA-154 "Rapid Visual Screening of Buildings for Potential Seismic Hazards" methodologies). It is recognized that these programs will need to be initiated and supported at the County and/or State level, and will require training, tools and funding provided at the county, state and/or federal level.	Carried Forward	N/A	All Hazards	6,7,13	Hazard Mitigation Plan Coordinator	Medium-High	Medium-High	FEMA Mitigation Grant Programs with local match	Long Term DOF	Medium	Action/Project, PR	Ongoing. We support and encourage staff to educate and train in this area.
MS24 [(MS29)]	Mutual Aid & Business Continuity	Create/Enhance/Maintain Mutual Aid agreements with neighboring communities for continuity of operations.	Carried Forward	N/A	All Hazards	3,7	Municipality with support from County, NJOEM, FEMA and surrounding communities	Medium	Low	Municipal Budget	Short Term	High	Capability, PR, ES	Initiated but not completed. We have informal agreements with our neighboring communities. We will consider a more formal relationship down the road.



Proposed Hazard Mitigation Initiatives														
2019 Initiative Number	Initiative Name	Initiative Description	New Initiative Or Carried Forward?	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	2018 Action Status
MS25 [(MS30)]	Mutual Aid Agreements	Identify and develop agreements with entities that can provide support with FEMA/NJOEM paperwork after disasters; qualified damage assessment personnel – Improve post-disaster capabilities – damage assessment; FEMA/NJOEM paperwork compilation, submissions, record-keeping	Carried Forward	N/A	All Hazards	3,7	Municipality with support from County, NJOEM and FEMA	Medium	Medium	Municipal Budget	Short Term	Medium	Capability, PR, ES	Ongoing. Working with County to utilize existing software and necessary training for damage assessment.
MS26 [(MS32)]	Community Resilience	Enhance the County/community resilience to severe storms (incl. severe winter storms) by joining the NOAA "Storm Ready" program and supporting communities in joining the program.	Carried Forward	N/A	Severe Storm	12	Municipality with support from County, NJOEM and FEMA	Medium	Low	Municipal Budget	Short Term DOF	Medium	Action/Project, PE	Initiated but not completed. We have put the information out to our residents on social media and will continue to support the registering with Storm Ready.
MS27 [(MS33)]	Underground Utilities	Adopt regulations for undergrounding utilities in new developments.	Carried Forward	N/A	Severe Storm	1,2,4,8	Municipal Council	Medium	Low	Municipal Budget	Short	High	Action/Project, PR	Not initiated; lack of funding would hinder support for this program.
MS28 [(MS34)]	Permit Fee Waivers	Implement permit fee waivers for installation of backup power for private property.	Carried Forward	N/A	Severe Storm	12	Municipal Council	Medium	Low	Municipal Budget	Short	High	Action/Project, PR	Initiated but not completed. We do a shared service agreement with the State DCA. They would be the agency who would make that decision.
MS29 [(MS35)]	Public Education & Outreach	Provide public education and outreach on proper installation and/or use of backup power.	Carried Forward	N/A	Severe Storm	5,13	Municipal Clerk	Medium	Low	Municipal Budget	Short	High	Action/Project, PR	While not initiated, we could provide information to homeowners.

Notes:

* Does this mitigation initiative reduce the effects of hazards on new and/or existing buildings and/or infrastructure? Not applicable (N/A) is inserted if this does not apply.

Acronyms and Abbreviations:

- ARC American Red Cross
- DPW Department of Public Works
- FEMA Federal Emergency Management Agency
- HMA Hazard Mitigation Assistance
- HMP Hazard Mitigation Proposal
- N/A Not applicable

Potential FEMA HMA Funding Sources:

- FMA = Flood Mitigation Assistance Grant Program
- HMGP = Hazard Mitigation Grant Program
- PDM = Pre-Disaster Mitigation Grant Program
- RFC = Repetitive Flood Claims Grant Program
- SRL = Severe Repetitive Loss Grant Program



NFIP	National Flood Insurance Program
NJOEM	New Jersey Office of Emergency Management
NOAA	National Oceanic and Atmospheric Administration
SCPD	Somerset County Planning Department
USACE	U.S Army Corp of Engineers
USGS	U.S. Geological Survey

Costs:

Where actual project costs have been reasonably 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.

Benefits:

Where possible, an estimate of project benefits (per FEMA's benefit calculation methodology) has been evaluated against the project costs, and is presented as:

Low = < \$10,000

Medium = \$10,000 to \$100,000

High = > \$100,000

Where numerical project benefits cannot reasonably be established at this time:

Low = Long-term benefits of the project are difficult to quantify in the short term.

Medium = Project will have a long-term impact on the reduction of risk exposure to life and property, or project will provide an immediate reduction in the risk exposure to property.

High = Project will have an immediate impact on the reduction of risk exposure to life and property.

Timeline:

Short Term= 1 to 5 years

Long Term = 5 years or greater

OG = Ongoing program

DOF = Depending on funding

Notes (for Mitigation Type):

1. PR = Prevention: Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.
2. PP = Property Protection: These actions include public activities to reduce hazard losses or actions that involve (1) modification of existing buildings or structures to protect them from a hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.
3. PE = Public Education and Awareness: Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. Such actions include outreach projects, real estate disclosure, hazard information centers, and educational programs for school-age children and adults.
4. NR = Natural Resource Protection: Actions that minimize hazard loss and also preserve or restore the functions of natural systems. These actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.
5. SP = Structural Projects: Actions that involve the construction of structures to reduce the impact of a hazard. Such structures include dams, setback levees, floodwalls, retaining walls, and safe rooms.
6. ES = Emergency Services: Actions that protect people and property during and immediately following a disaster or hazard event. Services include warning systems, emergency response services, and the protection of essential facilities.
7. Initiative= Initiatives are comprised of EVERYTHING your community wants to do or is doing in order to meet its mitigation goals. Initiatives include Capabilities, Actions and Projects.
8. Capability= Regulatory, administrative, technical, and fiscal staffing, tools and/or resources. Capabilities can be existing, or in need of further development/expansion.
8. Action/Project= Specific activities or projects that your community plans to undertake or is currently completing in order to achieve its long term mitigation goals. Actions/Projects can include, but are not limited to: structural projects, infrastructure projects, natural systems protection projects, or education and awareness programs.

9.13.8 PRIORITIZATION OF MITIGATION INITIATIVES

The table below summarizes the priority levels for each mitigation initiative, listed by number. Please note that the Borough has opted to carry forward legacy initiative numbers from the 2014 plan, for internal municipal tracking purposes, formatted as: “2019# [2014#(2009#)]”.

Prioritization of Mitigation Initiatives							
Initiative #	# of Objectives Met	Benefits	Costs	Do benefits equal or exceed costs? (Yes or No)	Is project Grant eligible? (Yes or No)	Can project be funded under existing programs/budgets? (Yes or No)	Priority (High, Medium, Low)
MS1 [(MS1)]	2	M	L	Y	N	Y	M
MS2 [(MS2)]	1	M	M	Y	N	Y	M
MS3 [(MS3)]	2	L	M	N	N	Y	L
MS4 [(MS4)]	2	L	L	Y	N	Y	M
MS5 [(MS5)]	3	M	L	Y	N	Y	M
MS6 [(MS6)]	2	M	L	Y	Y	Y	H
MS7 [(MS7)]	1	H	M	Y	N	Y	H
MS8 [(MS10)]	2	M	L	Y	N	Y	H
MS9 [(MS11)]	2	M	L	Y	N	Y	H
MS10 [(MS12)]	2	M	M	Y	N	Y	M
MS11 [(MS13)]	1	M	M	Y	Y	Y	M
MS12 [(MS14)]	1	H	M	Y	Y	Y	H
MS13 [(MS15)]	1	M	L	Y	N	Y	M
MS14 [(MS16)]	1	H	M	Y	Y	N	H
MS15 [(MS17)]	13	H	L	Y	N	Y	M
MS16 [(MS18)]	3	H	M	Y	Y	N	H
MS17 [MS20 (MS-5)]	2	L	L	Y	Y	Y	H
MS18 [MS21 (MS-6)]	1	H	M	Y	N	Y	M
MS19 [MS22 (MS-7)]	1	H	L	Y	N	Y	H
MS20 [MS23 (MS-11)]	4	H	L	Y	N	Y	H
MS21 [(MS25)]	2	M	M	Y	Y	Y	H
MS22 [(MS26)]	4	M	M	Y	N	Y	M
MS23 [(MS28)]	3	M	M	Y	N	Y	M
MS24 [(MS29)	2	M	L	Y	N	Y	H
MS25 [(MS30)]	2	M	M	Y	N	Y	M
MS26 [(MS32)]	1	M	L	Y	N	Y	M
MS27 [(MS33)]	4	M	L	Y	N	Y	H
MS28 [(MS34)]	1	M	L	Y	N	Y	H
MS29 [(MS35)]	2	M	L	Y	N	Y	H

Notes:

H = High

L = Low

M = Medium

N = No

Y = Yes

9.13.8.1 Explanation of Priorities

Explanations of priority classifications used to assess the mitigation initiatives described in this annex are presented below:

High Priority = A project that meets multiple objectives (i.e., multiple hazards), where potential benefits exceed the costs. High-priority projects have funding secured or are on-going projects that meet eligibility requirements for the Hazard Mitigation Grant Program (HMGP) or Pre-Disaster Mitigation (PDM) Grant Program. High-priority projects can be completed in the short term (1 to 5 years).

Medium Priority = A project that meets goals and objectives, where the potential benefits outweigh the costs. Funding for medium-priority projects has not been secured but these projects are eligible for grants under HMGP, PDM, or other grant programs. These projects can be completed in the short term, once funding is completed. Medium-priority projects will become high-priority projects once funding is secured.

Low Priority = A project that will mitigate the risk of a hazard, where the potential benefits do not exceed the costs or have benefits that are difficult to quantify. Funding for low-priority projects has not been secured and these projects are not eligible for HMGP or PDM grant funding. The timeline for completion is considered long term (1 to 10 years). Low-priority projects may be eligible other sources of grant funding from other programs. A low-priority project could become a high-priority project once funding is secured as long as it could be completed in the short term.

Was prioritization of initiatives based on the above definitions? Yes

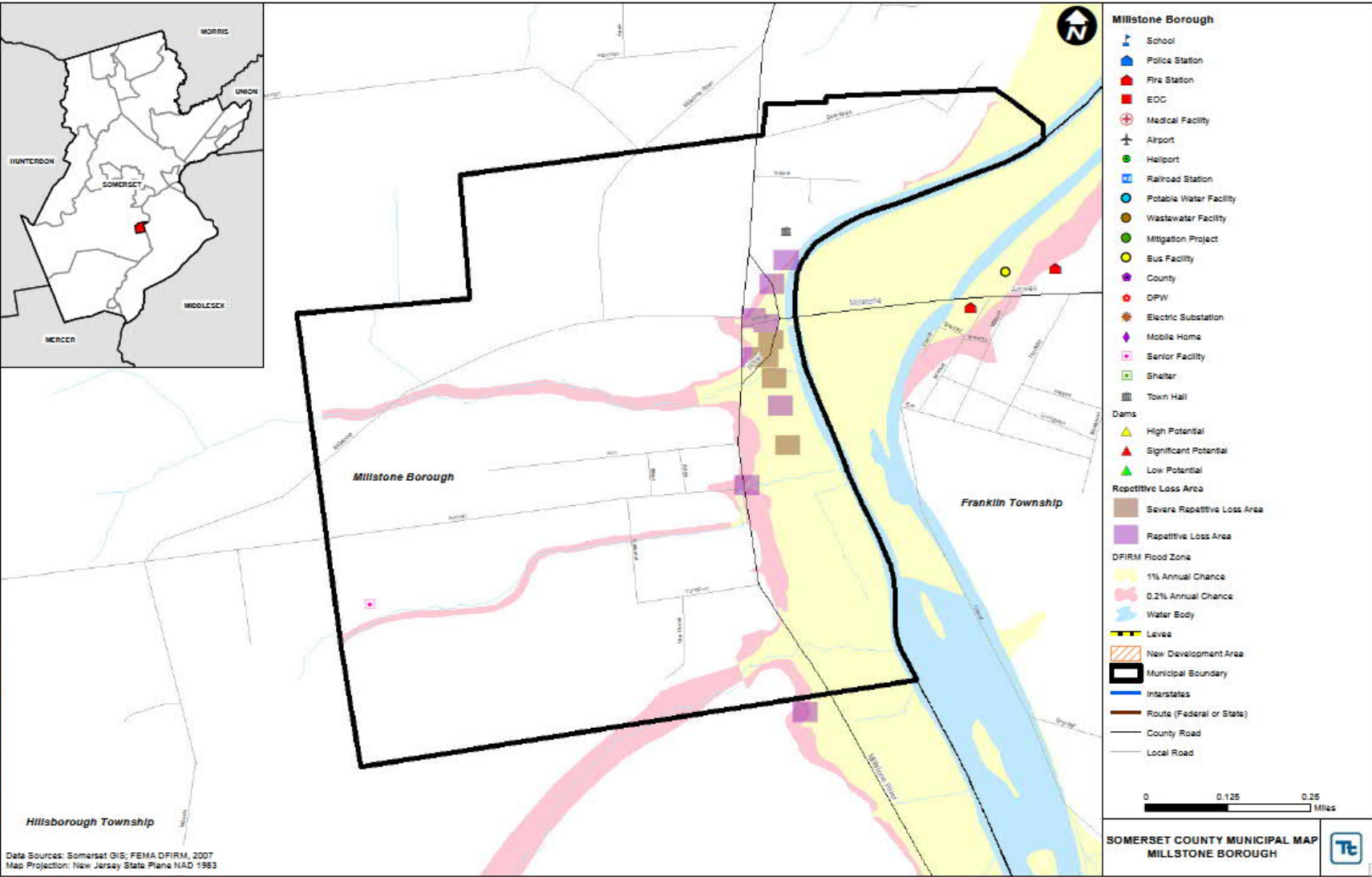
Was prioritization of initiatives based on parameters other than those stated above? Not applicable

9.13.9 FUTURE NEEDS TO BETTER UNDERSTAND RISK/VULNERABILITY

Millstone has no additional risk vulnerabilities that need to be addressed at this time.

9.13.10 HAZARD AREA EXTENT AND LOCATION

A hazard area extent and location map illustrating the probable areas impacted within Millstone is provided on the following page. This map is based on the best data available at the time of the preparation of this plan, and is considered to be adequate for planning purposes. Maps have only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which the Borough has significant exposure. The planning area maps are provided in the hazard profiles within Section 5.4 of this plan.



9.13.11 STATUS OF INCORPORATION OF MITIGATION PLANNING INTO EXISTING AND FUTURE PLANNING MECHANISMS

It is the intention of Millstone Borough to incorporate mitigation planning as an integral component of daily municipal operations. The following table contains a list of planning mechanisms that have been utilized during prior plan maintenance cycles, and those that will be incorporated into municipal procedures during the upcoming plan maintenance cycle (2019-2024).

Status of Incorporation of Mitigation Planning into Existing and Future Planning Mechanisms				
Planning Mechanisms	Reported Utilization (2009-2014)	Planned Utilization (2014-2019)	Reported Utilization (2014-2019)	Planned Utilization (2019-2024)
Operating Budget When constructing upcoming budgets, hazard mitigation actions will be funded as budget allows. Construction projects will be evaluated to see if they meet the hazard mitigation goals and objectives.	-	X	X	X
Capital Improvement Budget When constructing upcoming budgets, hazard mitigation actions will be funded as budget allows. Construction projects will be evaluated to see if they meet the hazard mitigation goals and objectives.	X	-	X	X
Human Resource Manual Employee job descriptions may contain hazard mitigation actions.	X	-	X	X
Building and Zoning Ordinances Prior to land use, zoning changes, or development permitting, the municipality will review the hazard mitigation plan and other hazard analyses to ensure consistent and compatible land use.	X	-	X	X
Comprehensive Land Use Plan When applicable, the municipality will incorporate hazard mitigation actions in the development and extent of the regulations.	X	-	X	X
Grant Applications Data and maps will be used as supporting documentation in grant applications.	X	-	X	X
Municipal Ordinances When updating municipal ordinances, hazard mitigation will be a priority.	X	-	X	X
Fire Plan The Hazard Mitigation Plan will be used as a resource for the development of future Fire Plans.	X	-	X	X
Capital Improvement Planning The municipality will establish a protocol to review current and future projects for hazard vulnerability. The municipality will incorporate hazard-resistant construction standards into the design and location of projects.	X	-	X	X
Day-to-Day Operations The municipality will incorporate hazard mitigation actions in daily operations and all projects.	X	-	X	X

Status of Incorporation of Mitigation Planning into Existing and Future Planning Mechanisms				
Planning Mechanisms	Reported Utilization (2009-2014)	Planned Utilization (2014-2019)	Reported Utilization (2014-2019)	Planned Utilization (2019-2024)
Local School Service Projects The municipality will work closely with the local school district and assist with community service projects for the service organizations. Several of the municipality's hazard mitigation actions can be implemented as a joint project with the school district.	X	-	X	X
Municipal Budget Adopted annually, the municipality will look at mitigation actions when allocating funding.	X	-	X	X
Economic Development The local economic development group will take into account information regarding identified hazard areas when assisting new businesses in finding a location.	-	X	X	X

9.13.12 ADDITIONAL COMMENTS

There are no additional comments at this time.

9.13.12 NFIP ADMINISTRATOR INPUT

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP ¹	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)			Is this person a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Is your community in good standing with the NFIP?
2007	04/03/1978	Dan Devoti, Zoning Officer			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability, etc.):							
Coordinating grants, review permits, education and public outreach.							
Describe barriers to running an effective NFIP program in the community (if applicable):							
Coordination with County on a land swap to relocate houses out of the floodplain - new lot and block number, but it is not on the tax map yet. May have to change the lot itself for relocation.							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
2015	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No * Class _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
*Describe any outstanding compliance issues (i.e., current violations):							
There are houses in the floodplain that are not currently in compliance.							

Provide an explanation of your local floodplain permitting process:								
Review development permits to determine: a) permit requirements of the ordinance have been satisfied, b) federal/state/local permits have been obtained as needed, and c) determine whether proposed development is in the floodway and if so, to assure encroachment provisions are met.								
Does your community intend to continue floodplain identification and mapping services including any local requests for map updates?	Does your community intend to initiate/continue the buyouts of repetitive loss properties?	Does your community intend to commit staff or resources to improve local mapping or code administration in the future?	Does your community intend to provide local outreach to promote the sale of flood insurance?	Does your community intend to participate in RiskMAP meetings and planning initiatives?	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.?	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding?	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events?	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations?	As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan?		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update?		Have there been any changes to your community's local floodplain management program since the last version of the plan in 2014?			
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes* <input type="checkbox"/> No			
* If you answered "yes", that there have been changes to your local program since 2009, please describe:								
Updated to meet FEMA's new floodplain map.								
Provide a description of your community assistance and monitoring activities:								
Assisted in raising of buildings per FEMA regulations and codes.								
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement?				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement?				
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				