



9.25 Township of Mount Laurel

This section presents the jurisdictional annex for the Township of Mount Laurel.

9.25.1 Hazard Mitigation Plan Point of Contact

The following individuals have been identified as the hazard mitigation plan’s primary and alternate points of contact.

Primary Point of Contact	Alternate Point of Contact
Ronald Devlin, EMC 100 Mount Laurel Road, Mount Laurel, NJ 08054 856.234.0001 ext. 1561 rdevlin@mountlaurelpa.org	John Colucci, Fire Chief/Deputy EMC 100 Mount Laurel Road, Mount Laurel, NJ 08054 856.234.6053 jcolucci@mlfd.org

9.25.2 Municipal Profile

The 19th Century saw the establishment of Mount Laurel village, centrally located in the vicinity of William Evan’s original homestead, Mount Pray. People settled near enough to be able to walk conveniently to the new meeting house.

In 1872, this area known as “Lower Evesham” became officially incorporated into its own village, Mount Laurel. The present Mount Laurel Township encompasses over 13,000 acres but the official village has nearly vanished.¹

Mount Laurel Township is run as a Council-Manager form of government with a full-time Township Manager and a part-time governing body elected on staggered four-year terms. The governing body selects a Mayor and Deputy Mayor annually from amongst themselves.² Under this form, the council is the legislative body of the municipality but also appoints the positions of Municipal Clerk, Tax Assessor and well as provides for appointments of members of Boards, Commissions and Authorities. Perhaps most importantly, the council appoints a qualified manager to serve as the chief executive.

The mayor can either be selected from the council or directly elected. Either way, the mayor serves as the presiding member of the council. The Manager has the full administrative responsibility for the municipality, including appointment of department heads as well as subordinates, preparation and presentation of the budget and the negotiation of contracts.³

The Township of Mount Laurel is centrally located in the western portion of Burlington County and encompasses approximately 22 square miles, of which 21.7 square miles is land and 0.3 square miles is water. The Township is bordered by Evesham to the south, Maple Shade to the northwest, Moorestown to the north, Hainesport to the east, and Lumberton and Medford Township to the southeast. In addition, the Township shares borders with both the Pennsauken River to the west and the Rancocas River to the east – two major tributaries of the Delaware River. There are several unincorporated communities found within the Township: Birchfield, Bougher, Centerdon, Coxs Corner, Fellowship, Hartford, Heulings Hill, Masonville, Petersburg, Pine Grove,

¹ <http://southjerseywebdesign.com/prototypes/mountlaureltpw/township-history-the-early-settlers/>

² <http://mountlaurel.com/about/>

³ http://www.njslom.org/magart0307_p14.html





Ramblewood, Rancocas Woods, and Texas. According to the 2010 Census, the community's population was 41,864.

Growth/Development Trends

The following table summarizes recent residential/commercial development since 2013 to present and any known or anticipated major residential/commercial development and major infrastructure development that has been identified in the next five years within the municipality. Refer to the map in 9.25.8 of this annex which illustrates the hazard areas along with the location of potential new development.

Table 9.25-1. Growth and Development

Property or Development Name	Type (e.g. Res., Comm.)	# of Units / Structures	Location (address and/or block/lot)	Known Hazard Zone(s)	Description/Status of Development
Recent Development from 2013 to present					
Topgolf	Comm	64,232 sf	104 Centerton Rd. 503.01/2	Wildfire: Extreme	Recreation, under construction
Dunkin Donuts	Comm	1,800 sf	3601 Rt 38 500/3		Complete, open
Fair Share Housing	Res	36 units	1 Ethel Lawrence Blvd. 601/23		Townhomes, under construction
Connell Tract	Res	24 units	ML Road. 701/3	Flood: 1% Event: A-Zone; Wildfire: Extreme	SF Dwellings, under construction
Metro Storage	Comm	97,225 sf	Rt 38 309/1 & 1.01	Flood: 1% Event: A-Zone; Wildfire: High; SLOSH: Category 2	Storage, under construction
Fair Share Housing	Res Comm	188 units	Ark/Hovtech 302.15/2 & 3	Wildfire: Extreme	Prelim Approval
Capital Senior Housing	Res Comm	101 Beds 72,000 sf	Creek/Centerton 203/1.02	Could not locate.	Under construction
Dunkin Donuts	Comm	1,830 sf	523 Pleasant Valley Ave 1205/1 & 2	None	Restaurant, App
Chase Partners	Res	621 units	Briggs/UMR 304/3&3.01	Flood: 1% Event: A-Zone; Wildfire: High; SLOSH: Category 4	Apt/Townhouse, under construction
Maximus	Res	11 units	663 Walton Ave 601/3.02	Flood: 1% Event: A-Zone; Wildfire: Very High	Approved SF Dwellings
Bancroft	Res/Comm	177,000 sf	311 Walton Ave 509/1.01	Flood: 1% Event: A-Zone; Wildfire: Very High	Complete, open
JRB Prop	Res	9 units	171 Hooton Rd 900/11 & 12	Flood: 1% Event: A-Zone	Approved, SF Dwelling
Royal Farms	Comm	5,166 sf 8 gas pumps	3123 Rt 38 301.22/28&28.01	None	Under construction
Davis Raceway	Res	145 units	503 Fellowship Rd 514/2	None	Approved



Property or Development Name	Type (e.g. Res., Comm.)	# of Units / Structures	Location (address and/or block/lot)	Known Hazard Zone(s)	Description/Status of Development
BCC	Comm	75,600 sf	300 College Drive 300/1.02 & 2.01	Wildfire: High	Student Center, open
Walmart	Comm	93,944 sf	Rt 73 1304.02/15-18 1304.01/11-18 1304.03/1-12	Wildfire: High	Complete, open
Orlando	Comm	5,000 sf	4518 Church Rd 1100.02/6	Wildfire: High	Childcare, open
Prince Hotel	Comm	101 Rms	2020 Briggs Rd 304/4.02	Wildfire: High	Hotel, under construction
Diocese of Trenton	Comm	27,000 sf	3055 Fostertown Rd 303/3	None	Cemetery, under construction
Known or Anticipated Development in the Next Five (5) Years					
VOADV	Res	103 units	Centerton Rd Marne Hwy 503.03/3	Could not locate.	Apt
Monte Site	Res	500 units	Marne Hwy 215/15	Flood: 1% Event: A-Zone; Wildfire: High; SLOSH: Category 3	Apt/Townhouses
FR-MX	Res	600 units	Fostertown Rd 302.15/10 & 11	Wildfire: High; SLOSH: Category 4	Apt Townhome

* Only location-specific hazard zones or vulnerabilities identified.

9.25.3 Natural Hazard Event History Specific to the Municipality

Burlington County has a history of natural and non-natural hazard events as detailed in Volume I, 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. For the purpose of this plan update, events that have occurred in the County from 2013 to present were summarized to indicate the range and impact of hazard events in the community. Information regarding specific damages is included, if available, based on reference material or local sources. This information is presented in the table below. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.

Table 9.25-2. Hazard Event History

Dates of Event	Event Type (Disaster Declaration if applicable)	Burlington County Designated?	Summary of Damages/Losses
April 30-May 1, 2014	Heavy Rain and Flooding	No	Heavy rain caused considerable poor drainage and creek flooding in the northern Burlington County. Rancocas Creek was hit the hardest by flooding. Many roads were flooded and closed. Approximately \$1 million in property damage in the County.
June 23, 2015	Severe Storm (DR-4231)	Yes	\$10 million in property damage in the County (\$8 million in Medford, \$1 million in Mt Laurel and \$1 million in Medford Lakes)
January 22-24, 2016	Severe Winter Storm (DR-4264)	Yes	Heavy snow fell throughout the County; snowfall totals ranged from 12 inches to 16.4 inches. Mount Laurel received \$250,179.31 to cover labor, equipment & materials for snow removal.
March 7, 2018	Severe Winter Storm	No	NJ Governor declared a state of emergency for Winter Storm Quinn due to the anticipated heavy snowfall in a short amount of time. This storm caused numerous power outages, fallen trees and





Dates of Event	Event Type (Disaster Declaration if applicable)	Burlington County Designated?	Summary of Damages/Losses
			power lines. Total projected debris removal for Mount Laurel Township is estimated at \$495, 449.60 and the process is ongoing as of June 25, 2018.

Notes:

- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)
- N/A Not applicable

9.25.4 Hazard Vulnerabilities and Ranking

The hazard profiles in Section 5.0 of this plan have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the hazard vulnerabilities and their ranking in the Township of Mount Laurel. For additional vulnerability information relevant to this jurisdiction, refer to Section 5.0.

Hazard Risk/Vulnerability Risk Ranking

The table below summarizes the hazard risk/vulnerability rankings of potential hazards for the Township of Mount Laurel. During the review of the hazard/vulnerability risk ranking, the Township indicated the following:

- Flood was changed from a low hazard to a medium hazard.
- Wildfire was changed from a low hazard to a medium hazard.

Table 9.25-3. 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
Coastal Erosion	RCV Exposed to CE Hazard Area: \$11,315,372	Occasional	12	Low
Drought	Damage estimate not available.	Frequent	30	Medium
Earthquake	100-Year GBS: \$0 500-Year GBS: \$7,618,995 2,500-Year GBS: \$111,811,091	Occasional	28	Medium
Flood*	1% Annual Chance: \$260,222,222	Frequent	18	Medium
Landslide	RCV Exposed to Landslide Hazard Area \$0	Rare	6	Low
Severe Storm	100-year MRP: \$14,358,752 500-year MRP: \$67,873,218 Annualized: \$513,276	Frequent	48	High
Severe Winter Weather	1% GBS: \$93,439,915 5% GBS: \$467,199,577	Frequent	51	High
Wildfire*	Estimated Value in the Extreme, Very High, and High Hazard Areas: \$115,431,134	Occasional	16	Medium

Notes:

a. Building damage ratio estimates based on FEMA 386-2 (August 2001)





- b. The valuation of general building stock and loss estimates was based on custom inventory for the municipality.
 High = Total hazard priority risk ranking score of 31 and above
 Medium = Total hazard priority risk ranking of 20-30+
 Low = Total hazard risk ranking below 20
 - c. Loss estimates for the severe storm and severe winter storm hazards are structural values only and do not include the value of contents.
 - d. Loss estimates for the flood and earthquake hazards represent both structure and contents.
 - e. The HAZUS-MH earthquake model results are reported by Census Tract.
- * The Township of Mount Laurel changed the risk ranking for flood from low to medium and wildfire from low to medium.

National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Township of Mount Laurel.

Table 9.25-4. NFIP Summary

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 100-year Boundary (3)
Township of Mount Laurel	238	74	\$413,085.52	2	0	2

Source: FEMA Region 2 2017, 2018

(1) Repetitive loss and severe repetitive loss statistics provided by FEMA Region 2 and are current as of 10/31/2017. Policy and claims statistics current as of 9/30/2018
 Please note the total number of repetitive loss properties does not include the severe repetitive loss properties. The number of claims represents claims closed by 9/30/2018.

(2) Total building and content losses from the claims file provided by FEMA Region 2.

(3) The policies inside and outside of the flood zones are based on the addresses geocoded from the FEMA Region 2 policy file – 10/31/2017.

Notes: FEMA noted that where there is more than one entry for a property, there may be more than one policy in force or more than one GIS possibility.
 A zero percentage denotes less than 1/100th percentage and not zero damages or vulnerability as may be the case.

Critical Facilities

The table below presents Hazards United States (HAZUS) – Multi-Hazards (MH) estimates of the damage and loss of use to critical facilities in the community as a result of a 1-percent annual chance flood event.

Table 9.25-5. Potential Flood Losses to Critical Facilities

Name	Type	Exposure		Potential Loss from 1% Flood Event	
		1% Event	0.2% Event	Percent Structure Damage	Percent Content Damage
Alice Paul Birthplace	Historic Site	X	X	10.8	68
Plcs Inc.	Chemical		X	-	-
Pump Station #12	Pump Station	X	X	0	-
Pump Station #15	Pump Station		X	-	-
Pump Station #17	Pump Station	X	X	0	-
Pump Station #22	Pump Station		X	-	-
Pump Station #23	Pump Station		X	-	-
Pump Station #5	Pump Station	X	X	0	-

Source: FEMA 2017, Burlington County





Note: - = Damages not calculated by HAZUS-MH v4.0

Other Vulnerabilities Identified

The municipality has identified the following vulnerabilities within their community:

- *Township of Mount Laurel* – (all sources) all streams studied by detailed methods are flooding sources.

9.25.5 Capability Assessment

This section identifies the following capabilities of the local jurisdiction:

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Community classification
- National Flood Insurance Program
- Integration of mitigation planning into existing and future planning mechanisms

Planning and Regulatory Capability

The table below summarizes the regulatory tools that are available to the Township of Mount Laurel.

Table 9.25-6. Planning and Regulatory Tools

Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Planning Capability				
Master Plan	Yes 12/14/2017	Local	Twp Council, Zoning and Planning	
Capital Improvements Plan	Yes	Local	Twp Manager	Budgetary
Floodplain Management / Basin Plan	10/17/83	Local	Planning and Zoning	Ord 83-7
Stormwater Management Plan	10/17/83	Local	Planning and Zoning	Chapter 134
Open Space Plan	Yes	Local	Twp Manager	
Stream Corridor Management Plan	Yes	Local	Planning and Zoning, Engineer	Chapter 134-2
Watershed Management or Protection Plan	Yes	Local	Consulting Engineer	Chapter 134-2
Economic Development Plan	6/3/96	Local	Economic Development Committee	Chapter 18
Comprehensive Emergency Management Plan	Yes	Local	OEM	Chapter 20-4
Emergency Operation Plan	2/11/14	Local	OEM	Chapter 20-4 (Plan Renewal 2/2018)
Post-Disaster Recovery Plan	Yes	Local	Twp. Manager, OEM	Chapter 20-4



Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Transportation Plan	Yes	Local	DPW	
Strategic Recovery Planning Report	Yes	Local	I.T.	
Other Plans:	No			
Regulatory Capability				
Building Code	10/17/83	State & Local	Community Development	State Uniform Construction Code Act (N.J.S. 52:27D-119 et seq.), Chapter 66
Zoning Ordinance	10/17/83	Local	Community Development	Chapter 154
Subdivision Ordinance	10/17/83	Local	Community Development	Chapter 138
NFIP Flood Damage Prevention Ordinance	10/17/83	Federal, State, Local	Consulting Engineer	Ord 83-7
NFIP: Cumulative Substantial Damages	10/17/83	State, Local	Consulting Engineer	Ord 83-7
NFIP: Freeboard	10/17/83	State, Local	Consulting Engineer	Ord 83-7
Growth Management Ordinances	10/17/83	Local	Planning & Zoning	Ord 83-7
Site Plan Review Requirements	Yes	Local	Planning & Zoning	Chapter 154-128
Stormwater Management Ordinance	10/17/83	Local	Planning & Zoning	Chapter 134
Municipal Separate Storm Sewer System (MS4)	Yes	Local	Planning & Zoning	Chapter 122
Natural Hazard Ordinance	No			
Post-Disaster Recovery Ordinance	No			
Real Estate Disclosure Requirement	Yes	Local	Planning & Zoning	Chapter 154-108
Other (Special Purpose Ordinances [i.e., sensitive areas, steep slope])	No			

Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Township of Mount Laurel.

Table 9.25-7. Administrative and Technical Capabilities

Resources	Is this in place? (Yes or No)	Department/ Agency/Position
Administrative Capability		
Planning Board	Yes	Planning Board





Resources	Is this in place? (Yes or No)	Department/ Agency/Position
Mitigation Planning Committee	Yes	Professional Staff
Environmental Board/Commission	Yes	Green Team
Open Space Board/Committee	Yes	Township Manager
Economic Development Commission/Committee	Yes	Economic Development Committee
Maintenance programs to reduce risk	Yes	MEL JIF
Mutual aid agreements	Yes	Township Manager, OEM, County
Technical/Staffing Capability		
Planner(s) or engineer(s) with knowledge of land development and land management practices	Yes	Twp. Planner & Engineer (Contracted Professionals)
Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Yes	Twp. Engineer & Community Development Department
Planners or engineers with an understanding of natural hazards	Yes	Twp. Planner & Engineer (Contracted Professionals)
NFIP Floodplain Administrator (FPA)	Yes	Twp. Engineer
Surveyor(s)	No	
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	Yes	County Mutual Aid Agreement
Scientist familiar with natural hazards	No	
Emergency Manager	Yes	OEM Coordinator
Grant writer(s)	Yes	Twp. Manager, Treasurer, Economic Development Director, OEM Coordinator
Staff with expertise or training in benefit/cost analysis	Yes	Township Manager
Professionals trained in conducting damage assessments	Yes	Community Development Department, OEM

Fiscal Capability

The table below summarizes financial resources available to the Township of Mount Laurel.

Table 9.25-8. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	Yes – Township Manager, Engineer
Capital improvements project funding	Yes – Township Manager
Authority to levy taxes for specific purposes	Yes – Township Manager, Council
User fees for water, sewer, gas or electric service	MUA, PSEG
Impact fees for homebuyers or developers of new development/homes	Yes – Township Council
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	No
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	NJDOT Grants, EMAA Grant
Open Space Acquisition funding programs	Municipal Open Space Tax



Financial Resources	Accessible or Eligible to Use (Yes/No)
Other	No

Community Classifications

The table below summarizes classifications for community program available to the Township of Mount Laurel.

Table 9.25-9. Community Classifications

Program	Do you have this? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No		
Building Code Effectiveness Grading Schedule (BCEGS)	No		
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	4	May 2012
Storm Ready Certification	No		
Firewise Communities classification	No		
Natural disaster/safety programs in/for schools	No		
Organizations with mitigation focus (advocacy group, non-government)	No		
Public education program/outreach (through website, social media)	Yes	Township Web Site, OEM Social Media Outreach	
Public-private partnership initiatives addressing disaster-related issues	No		

Note:

- N/A Not applicable
- NP Not participating
- Unavailable

The classifications listed above relate to the community’s ability to provide effective services to lessen its vulnerability to the 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 1000 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 <https://www.isomitigation.com/ppc/>
- The National Weather Service Storm Ready website at <http://www.stormready.noaa.gov/index.html>
- The National Firewise Communities website at <http://firewise.org/>

Self-Assessment of Capability

The table below provides an approximate measure of the Township of Mount Laurel’s capability to work in a hazard-mitigation capacity and/or effectively implement hazard mitigation strategies to reduce hazard vulnerabilities.





Table 9.25-10. Self-Assessment Capability for the Municipality

Area	Degree of Hazard Mitigation Capability		
	Limited (If limited, what are your obstacles?)*	Moderate	High
Planning and regulatory capability		X	
Administrative and technical capability		X	
Fiscal capability		X	
Community political capability		X	
Community resiliency capability		X	
Capability to integrate mitigation into municipal processes and activities		X	

National Flood Insurance Program

NFIP Floodplain Administrator (FPA)

William Long, Township Engineer

Flood Vulnerability Summary

The Township of Mount Laurel does not maintain lists or inventories of properties that have been damaged by flooding.

Resources

The FPA is the Township Engineer and has the Department of Public Works to help with the responsibilities of floodplain administration. NFIP administration services and functions provided to residents of Mount Laurel are provided by the NFIP Administrator and others by Municipal Utility Authority (MUA) personnel. At this time, there are no education or outreach programs to the community regarding flood hazards/risk or flood risk reduction. The FPA stated that there are currently no barriers to running an effective floodplain management program and that he feels adequately supported and trained to fulfill the responsibilities as the municipal floodplain administrator. The FPA would consider attending continuing education and certification training on floodplain management if it were offered in the future.

Compliance History

The Township is currently in good standing with the NFIP; however, the date of the most recent compliance audit is unknown.

Regulatory

The Township of Mount Laurel’s floodplain ordinance meets the minimum set by FEMA and the State of New Jersey. There are additional ordinances that support floodplain management within the Township. The Township is currently not in the CRS program and are currently not considering joining the program or attending a CRS seminar if offered locally.

Integration of Hazard Mitigation into Existing and Future Planning Mechanisms

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of this planning effort, each community was surveyed to obtain a better understanding of their community’s progress in plan integration. A summary is provided below. In



addition, the community identified specific integration activities that will be incorporated into municipal procedures.

Planning

Master Plan: The Township of Mount Laurel adopted the General Reexamination of the Master Plan and Master Plan Amendment on December 14th, 2017. This reexamination report concludes that the 2006 Mount Laurel Master Plan remains a valid and pertinent document for the advancement of planning policy guidance necessary for the future of land in the Township. This report further concludes that the goals and objectives of the Master Plan, which includes efficient land consumption, protection and preservation of natural resources and existing community character, and smart growth, should be retained and modified as included in this report. Finally, it is concluded that this reexamination report should be considered at the same time as an amendment to the Master Plan.

Regulatory and Enforcement (Ordinances)

NJDEP Municipal Stormwater Regulation Program: New Jersey Department of Environmental Protection issued the statewide municipal stormwater permits that became effective January 1, 2018 and authorizes stormwater discharges from municipal separate storm sewer systems (MS4s) to the waters of the state. Municipalities that have been issued a Notice of Authorization (NOA) to discharge under the Tier A (urban and coastal municipalities) or Tier B (more rural municipalities) master general permit must develop and implement a stormwater program. The first New Jersey Pollutant Discharge Elimination System (NJPDES) permit authorizing discharges from MS4 municipalities became effective in 2004 (subsequently renewed in 2009 and now in 2018), so most municipalities have developed stormwater programs; however, the 2018 permit requires the municipalities to maintain a stormwater management plan and enforce stormwater ordinances to address development and redevelopment consistent with the Stormwater Management rules at N.J.A.C 7:8, as well as implementation of additional requirements. For more information on the municipal stormwater regulation program, see www.nj.gov/dep/dwq/msrp_home.htm. The Township of Mount Laurel is Tier A municipality.

Stormwater Control: Chapter 134 of the municipal code discusses stormwater management in Article 1. The scope and purpose of this chapter is: Flood control, groundwater recharge, and pollutant reduction through nonstructural or low-impact techniques shall be explored before relying on structural BMPs. Structural BMPs should be integrated with nonstructural stormwater management strategies and proper maintenance plans. Nonstructural strategies include both environmentally sensitive site design and source controls that prevent pollutants from being placed on the site or from being exposed to stormwater. Source control plans should be developed based upon physical site conditions and the origin, nature, and the anticipated quantity or amount of potential pollutants. Multiple stormwater management BMPs may be necessary to achieve the established performance standards for water quality, quantity, and groundwater recharge. This chapter is intended to regulate stormwater management requirements for major development, calculation of stormwater runoff and groundwater recharge, standards for structural stormwater management measures, safety standards for stormwater management basins, requirements for a site development stormwater plan, and maintenance and repair. This chapter also provides sources for technical guidance, establishes penalties for violations, and names the Township Construction Official as the office responsible for enforcement.

Floodplain Protection: The purpose of the floodplain protection ordinance (Chapter 83 of the municipal code) is to promote the public health, safety and general welfare and to minimize public and private losses due to flood conditions in specific areas by provisions designed:

- To protect human life and health.
- To minimize expenditure of public money for costly flood control projects.



- To minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public.
- To minimize prolonged business interruptions.
- To minimize damage to public facilities and utilities such as water and gas mains, electric, telephone and sewer lines, streets and bridges located in areas of special flood hazard.
- To help maintain a stable tax base by providing for the second use and development of areas of special flood hazard so as to minimize future flood hazard.
- To ensure that potential buyers are informed that property is in an area of special flood hazard, said information to be obtained by the buyer.
- To ensure that those who occupy the areas of special flood hazard assume responsibility for their actions.

In order to accomplish its purposes, this chapter includes methods and provisions for:

- Restricting or prohibiting uses which are dangerous to health, safety and property due to water or erosion hazards or which result in damaging increases in erosion or in flood heights or velocities.
- Requiring that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction.
- Controlling the alteration of natural floodplains, stream channels and natural protective barriers which help accommodate or channel floodwaters.
- Controlling filling, grading, dredging and other development which may increase flood damage.
- Preventing or regulating the construction of flood barriers which will unnaturally divert floodwaters or which may increase flood hazards in other areas.

Operational and Administration

The Township of Mount Laurel has the following boards:

- Library Board of Trustees
- Municipal Utilities Authority Board of Trustees
- Planning Board
- Site Plan Review Advisory Board
- Zoning Board of Adjustment
- Green Team Board

Of the municipality's past mitigation actions from the 2014 HMP, several have been discontinued including, former ML-15 through ML-19 as they have been implemented as ongoing capabilities in the municipality. Particularly, ML-3 and ML-19 have been implemented as part of a tree maintenance program throughout the municipality. As of June 2018, this program was still active due to the subsequent impacts on Mount Laurel from Winter Storm Quinn in March 2018.

Funding

The Township of Mount Laurel has mutual aid agreements with the Township Manager, Office of Emergency Management (OEM), and Burlington County. Grant writers in the Township include the Township Manager, Treasurer, Economic Development Director, and OEM Coordinator. Financial resources that the Township has access to or are eligible to use include Community Development Block Grants, Capital Improvement Project Funding, the authority to levy taxes for specific purposes, user fees for water, sewer, gas or electric service, impact fees for homebuyers or developers of new developments/homes, the ability to incur debt through general obligation bonds, other Federal or State funding programs like NJDOT grants and EMAA grants, and open space acquisition funding programs like the municipal open space tax.



Education and Outreach

The Township of Mount Laurel has a website where one can access information about the Township's Government, Departments, find contact information, view the Township calendar and events. The Emergency Management Department page has emergency preparedness information, links to government agencies, links to weather service agencies, and homeland security.

9.25.6 Mitigation Strategy and Prioritization

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

Past Mitigation Initiative Status

The following table indicates progress on the community's mitigation strategy identified in the 2013 Plan. Actions that are carried forward as part of this plan update are included in the following subsection in its own table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and may also be found under 'Capability Assessment' presented previously in this annex.



Table 9.25-11. Status of Previous Mitigation Actions

Action Number	2013 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Steps 1. Project to be included in 2019 HMP or Discontinue 2. If including action in the 2019 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
ML-1	Establish a trail marking system in parks to ensure hiker safety and for emergency response locating	Parks/DPW	In Progress	50% complete. Volunteer donations.	1. Include in 2019 HMP 2. Continue pursuing action 3. N/A
ML-2	Establish boat slips along waterfront on both sides of the local bridges to ensure emergency response launch points and capabilities for flooding events and water rescue	Fire District & MUA.	No Progress	Boats ramps are not owned by the municipal government. MUA owns 1 ramp and are researching options and funding.	1. Include in 2019 HMP 2. Continue pursuing action 3. N/A
ML-3	Trim and clear hazardous trees throughout the Township	DPW & PSEGE	In Progress	Ongoing program as hazardous trees are located. Funded by local budget and PSEG.	1. Discontinue 2. N/A 3. Ongoing capability
ML-4	Install generators to operate gas pumps for Ramblewood Section under drainage system	DPW & MUA	No Progress	Researching installation & funding options.	1. Include in 2019 HMP 2. Determine installation and funding options 3. N/A
ML-5	Remove sediment, machine clean, and widen North Branch of Pennsauken Creek back to its 1960 footprint – Including up and downstream from Mount Laurel	DPW	No Progress	No progress. No further interest.	1. Discontinue 2. N/A 3. No longer a priority.
ML-6	Develop outreach and encourage residents in Ramblewood Section and Country Side sections of the Township to flood proof homes including battery backup sump pumps and to purchase federal flood insurance	OEM	No Progress	No progress. No further interest.	1. Discontinue 2. N/A 3. No longer a priority.
ML-7	Conduct study to determine cause(s) and mitigation solutions to prevent flooding along Union Mill between Briggs and Hartford Road and Hartford Road between Union Mill and SH 38	DPW & Twp Manager	In Progress	Development plans under way to include possible solutions.	1. Include in 2019 HMP 2. Complete study 3. N/A
ML-8	Pass a local ordinance to ensure that all hotels/motel and assisted	Community Development	No Progress	No progress. No further interest. Covered under current building & fire codes. Asst. Living and	1. Discontinue 2. N/A





Action Number	2013 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Steps 1. Project to be included in 2019 HMP or Discontinue 2. If including action in the 2019 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
	living facilities are required to have or be retrofitted with emergency generator back-up power to include 50% of lighting, all cooking /refrigeration equipment, HVAC, alarm systems, water, sewer and fire pumps, and elevators.	Depart., Twp Manager, & Twp Council		LTC facilities covered under new federal CMS regulations adopted November 2017.	3. No longer a priority
ML-9	Ensure critical Township facilities have emergency backup generator	OEM / Twp Manager	Complete	Generators installed - Funded through donation and local budget. Due to Winter Storm Quinn (March 2018), which left DPW building without power	1. Include in 2019 HMP 2. Seek FEMA Pre-Disaster Mitigation Grant funding for additional generators N/A
ML-10	Establish a local emergency AM Radio Station would allow us to communicate with our residents and non-residents with information in real time during emergencies.	OEM	No Progress	No further interest. Now utilizing township web site, social media, Nixle and SwiftReach 911.	1. Discontinue 2. N/A 3. No longer a priority.
ML-11	Enhance the Resiliency to severe storms by joining the NOAA "Storm Ready" Program	OEM	No Progress	No progress	1. Include in 2019 HMP 2. Continue pursuing action. 3. N/A
ML-12	Provide Public Education & Outreach on Proper Installation and/or Use of Backup Power	OEM	No Progress	No Progress. No further interest.	1. Discontinue 2. N/A 3. No longer a priority.
ML-13	Evaluate benefits of participating in CRS program	Twp. Committee; Planning	No Progress	No Progress. No further interest.	1. Discontinue 2. N/A 3. No longer a priority.
ML-14	Conduct and facilitate community and public education and outreach for residents and businesses to promote natural hazard risk reduction to include: <ul style="list-style-type: none">Disaster preparednessHazard mitigation	Municipality with support from Planning Partners, County Planning, NJOEM, FEMA	Complete	Social media currently used towards promoting disaster preparedness with information from NJ OEM and Ready.Gov. There is no associated costs.	1. Discontinue 2. N/A 3. Ongoing capability
ML-15	Improve municipal communications systems to include information sharing with	Municipality with support from County,	Complete	County radio system update is under way through county / local budget.	1. Discontinue 2. N/A 3. County leading effort





Action Number	2013 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Steps 1. Project to be included in 2019 HMP or Discontinue 2. If including action in the 2019 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
	county and surrounding municipalities.	NJOEM and FEMA			
ML-16	Create/Enhance/Maintain Mutual Aid agreements with neighboring communities for continuity of operations	Municipality with support from County, NJOEM, FEMA and surrounding communities	Complete	County Mutual Aid Agreement is in place.	1. Discontinue 2. N/A 3. Ongoing capability
ML-17	Continue to support the implementation, monitoring, maintenance, and updating of this Plan through participating in the 5 year Plan Update	Municipality with support from Planning Partners, County Planning, NJOEM, FEMA	Complete	Plan update is under way and funded through county budget and supported by Mount Laurel Township.	1. Discontinue 2. N/A 3. Participating in plan update
ML-18	Promote the participation of Floodplain Administrator within the planning process and other related activities.	Municipality with support from County, NJOEM and FEMA	Complete	Floodplain Administrator is also the Twp. Engineer who actively participates in the planning process.	1. Discontinue 2. N/A 3. Ongoing capability
ML-19	Address dangerous trees threatening people and property through proactive tree-trimming (vegetation management) programs in conjunction with property owners and utility companies.	Municipal DPW	Complete	Ongoing program as hazardous trees are located. Funded by local budget and PSEG.	1. Discontinue 2. N/A 3. Ongoing capability
ML-20	Support the mitigation of vulnerable structures via retrofit (eg. Elevation, flood-proofing) or relocation to protect structures from future damage with repetitive loss and severe repetitive loss properties as a priority when applicable.	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from County Planning, NJOEM, FEMA	No Progress	No properties meet this need.	1. Discontinue 2. N/A 3. No longer a priority.



Action Number	2013 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Steps 1. Project to be included in 2019 HMP or Discontinue 2. If including action in the 2019 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
	<p>Phase 1: Identify appropriate candidates based on cost-effectiveness and repetitive loss.</p> <p>Phase 2: Work with the property owners to implement selected action based on available funding from the State and FEMA and local match availability.</p>				



Completed Mitigation Initiatives Not Identified in the Previous Mitigation Strategy

The Township of Mount Laurel has identified the following mitigation projects/activities that have also been completed but were not identified in the previous mitigation strategy in the 2013 Plan:

- None identified by the municipality.

Proposed Hazard Mitigation Initiatives for the Plan Update

The municipality participated in a mitigation action workshop in March 2018 and was provided the following FEMA publications to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards: FEMA 551 ‘Selecting Appropriate Mitigation Measures for Floodprone Structures’ (March 2007) and FEMA ‘Mitigation Ideas – A Resource for Reducing Risk to Natural Hazards’ (January 2013).

Table 9.25-12 summarizes the comprehensive-range of specific mitigation initiatives the Township of Mount Laurel would like to pursue in the future to reduce the effects of hazards. Some of these initiatives may be previous actions carried forward for this plan update. These initiatives 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. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table below to further demonstrate the wide-range of activities and mitigation measures selected.

As discussed in Section 6, 14 evaluation/prioritization criteria are used to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing your actions as ‘High’, ‘Medium’, or ‘Low.’ The table below summarizes the evaluation of each mitigation initiative, listed by Action Number.

Table 9.25-13 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.



Table 9.25-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Critical Facility (Yes / No)	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
ML-1 (former ML-1)	Establish a trail marking system in parks to ensure hiker safety and for emergency response locating	No	All	1	Parks/DPW	Low	Low	Municipal Budget, Donations	Short	Low	EAP	ES
ML-2 (former ML-2)	Establish boat slips along waterfront on both sides of the local bridges to ensure emergency response launch points and capabilities for flooding events and water rescue	No	All	1, 6	Fire District & MUA.	Med	Medium	Municipal Budget	Short	Low	SIP	ES
ML-3 (former ML-4)	Install generators to operate gas pumps for Ramblewood Section under drainage system	No	Flood	1, 2	DPW & MUA	High	Medium	HMPG	Short	Medium	SIP	PP
ML-4 (former ML-7)	Conduct study to determine cause(s) and mitigation solutions to prevent flooding along Union Mill between Briggs and Hartford Road and Hartford Road between Union Mill and SH 38	No	Flood	1, 2, 6	DPW & Twp Manager	High	Medium	HMPG	Short	High	SIP	PP
ML-5	Coordinate with the facility managers at Alice Paul Birthplace in the Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage. Phase 1: Identify most cost-effective mitigation option Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.	Yes	Flood, Severe Storm	1, 2, 6	Municipality with support from County	High	High	HMA Grants, Municipal Budget	Short Term DOF	Medium	SIP	SP, PP
ML-6	Coordinate with the facility managers at PLCS Inc. in the Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage. Phase 1: Identify most cost-effective mitigation option	Yes	Flood, Severe Storm	1, 2, 6	Municipality with support from County	High	High	HMA Grants, Municipal Budget	Short Term DOF	Medium	SIP	SP, PP





Table 9.25-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Critical Facility (Yes / No)	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
	Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.											
ML-7	Coordinate with the facility managers at Pump Stations in the Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage. Phase 1: Identify most cost-effective mitigation option Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.	Yes	Flood, Severe Storm	1, 2, 6	Municipality with support from County	High	High	HMA Grants, Municipal Budget	Short Term DOF	Medium	SIP	SP, PP
ML-8	During future updates of the Master Plan, Capital Improvements Plan, Open Space Plan, Economic Development, Transportation Plan, or other plans, work to integrate hazard mitigation principles and recommendations into the plans. Additionally, use these hazard mitigation principles and plan recommendations to update local building and zoning codes to create a more resilient community.	No	All Hazards	All	Municipality	High	Low	Municipal Budget	Short Term, Depending on update schedule	High	LPR	PR, PI
ML-9	The Township will promote and support non-structural flood hazard mitigation alternatives for at risk properties within the floodplain, specifically those that have been identified as Repetitive Loss (RL) and Severe Repetitive Loss (SRL). At risk areas include: <ul style="list-style-type: none"> Beechwood Drive Schoolhouse Lane 	No	Flood	1, 2	Municipality with support from County	High	High	Grant funding; Municipal budget	Short	High	SIP	PP





Table 9.25-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Critical Facility (Yes / No)	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
	Alternatives would include acquisition/relocation or elevation depending on feasibility, and the completion of initiative is dependent on funding, benefits versus cost, and willing participation of property owners.											
ML-10 (Former ML-11)	Enhance the Resiliency to severe storms by joining the NOAA "Storm Ready" Program	N/A	Severe Storm	All	Municipality with support from County, NJOEM and FEMA	Medium	Low	Municipal Budget	Short Term, DOF	Medium	EAP, LPR	PR, PI
ML-11 (Former ML-9)	Ensure critical Township facilities have emergency backup generator	Yes	All	1, 2, 6	OEM / Twp Manager / Director of Municipal Services	High	High	FEMA PDM, Grant Funding, Municipal budget	Short	High	SIP	PP

Notes:

Not all acronyms and abbreviations defined below are included in the table.

*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:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

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 (discontinued in 2015)
- SRL Severe Repetitive Loss Grant Program (discontinued in 2015)

Timeline:

- Short 1 to 5 years
- Long Term 5 years or greater
- OG On-going program
- DOF Depending on funding

Costs:

- Where actual project costs have been reasonably estimated:
- Low < \$10,000
 - Medium \$10,000 to \$100,000

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





Costs:

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:

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.

Mitigation Category:

- Local Plans and Regulations (LPR) – These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
- Structure and Infrastructure Project (SIP) - These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.
- Natural Systems Protection (NSP) – These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.
- Education and Awareness Programs (EAP) – These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities

CRS Category:

- Preventative Measures (PR) - 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.
- Property Protection (PP) - 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.
- Public Information (PI) - 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.
- Natural Resource Protection (NR) - 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.
- Structural Flood Control Projects (SP) - 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.
- Emergency Services (ES) - 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





Table 9.25-13. Summary of Prioritization of Actions

Mitigation Action / Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
ML-1 (former ML-1)	Establish a trail marking system in parks to ensure hiker safety and for emergency response locating	1	0	1	1	0	0	0	0	0	1	0	0	1	0	5	Low
ML-2 (former ML-2)	Establish boat slips along waterfront on both sides of the local bridges to ensure emergency response launch points and capabilities for flooding events and water rescue	1	0	1	1	1	0	0	0	0	1	0	1	1	0	7	Medium
ML-3 (former ML-4)	Install generators to operate gas pumps for Ramblewood Section under drainage system	1	1	1	1	1	1	-1	0	0	1	1	1	0	0	8	Medium
ML-4 (former ML-7)	Conduct study to determine cause(s) and mitigation solutions to prevent flooding along Union Mill between Briggs and Hartford Road and Hartford Road between Union Mill and SH 38	1	1	1	1	1	1	0	0	0	1	0	1	1	0	9	High
ML-5	Coordinate with the facility managers at Alice Paul Birthplace in the Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage. Phase 1: Identify most cost-effective mitigation option Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.	1	1	1	1	1	1	-1	0	1	1	0	0	1	1	9	High
ML-6	Coordinate with the facility managers at PLCS Inc. in the	1	1	1	1	1	1	-1	0	1	1	0	0	1	1	9	High





Table 9.25-13. Summary of Prioritization of Actions

Mitigation Action / Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
	Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage. Phase 1: Identify most cost-effective mitigation option Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.																
ML-7	Coordinate with the facility managers at Pump Stations in the Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage. Phase 1: Identify most cost-effective mitigation option Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.	1	1	1	1	1	1	-1	0	1	1	0	0	1	1	9	High
ML-8	During future updates of the Master Plan, Capital Improvements Plan, Open Space Plan, Economic Development, Transportation Plan, or other plans, work to integrate hazard mitigation principles and recommendations into the plans. Additionally, use these	1	1	1	1	1	1	1	0	0	1	1	0	1	0	10	High



Table 9.25-13. Summary of Prioritization of Actions

Mitigation Action / Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
	hazard mitigation principles and plan recommendations to update local building and zoning codes to create a more resilient community.																
ML-9	The Township will promote and support non-structural flood hazard mitigation alternatives for at risk properties within the floodplain, specifically those that have been identified as Repetitive Loss (RL) and Severe Repetitive Loss (SRL). At risk areas include: <ul style="list-style-type: none"> • Beechwood Drive • Schoolhouse Lane Alternatives would include acquisition/relocation or elevation depending on feasibility, and the completion of initiative is dependent on funding, benefits versus cost, and willing participation of property owners.	1	1	0	1	1	1	-1	0	0	1	0	1	1	0	8	High
ML-10 (Former ML-11)	Enhance the Resiliency to severe storms by joining the NOAA “Storm Ready” Program	1	0	0	1	1	1	0	0	1	1	1	0	1	0	8	Medium
ML-11 (Former ML-9)	Ensure critical Township facilities have emergency backup generator	1	1	1	1	1	1	0	0	0	1	1	1	1	0	10	High

Note: Refer to Section 6, which conveys guidance on prioritizing mitigation actions.





9.25.7 Future Needs to Better Understand Risk/Vulnerability

None at this time.

9.25.8 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the Township of Mount Laurel that illustrate the probable areas impacted within the municipality. These maps are based on the best available data at the time of the preparation of this plan and are 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 Township of Mount Laurel has significant exposure. These maps are illustrated in the hazard profiles within Section 5.4, Volume I of this Plan.

9.25.9 Additional Comments

None at this time.



Figure 9.25-1. Township of Mount Laurel Hazard Area Extent and Location Map 1

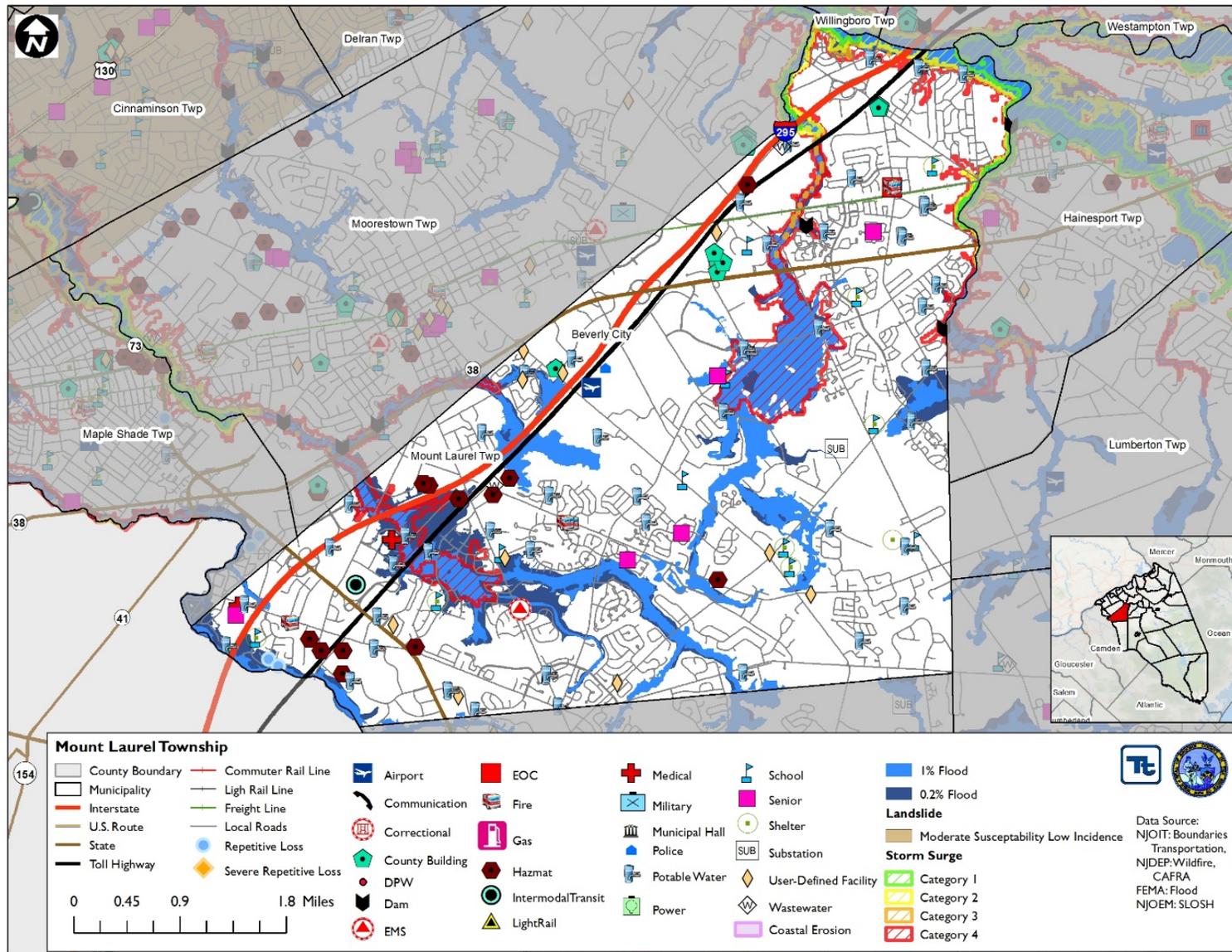
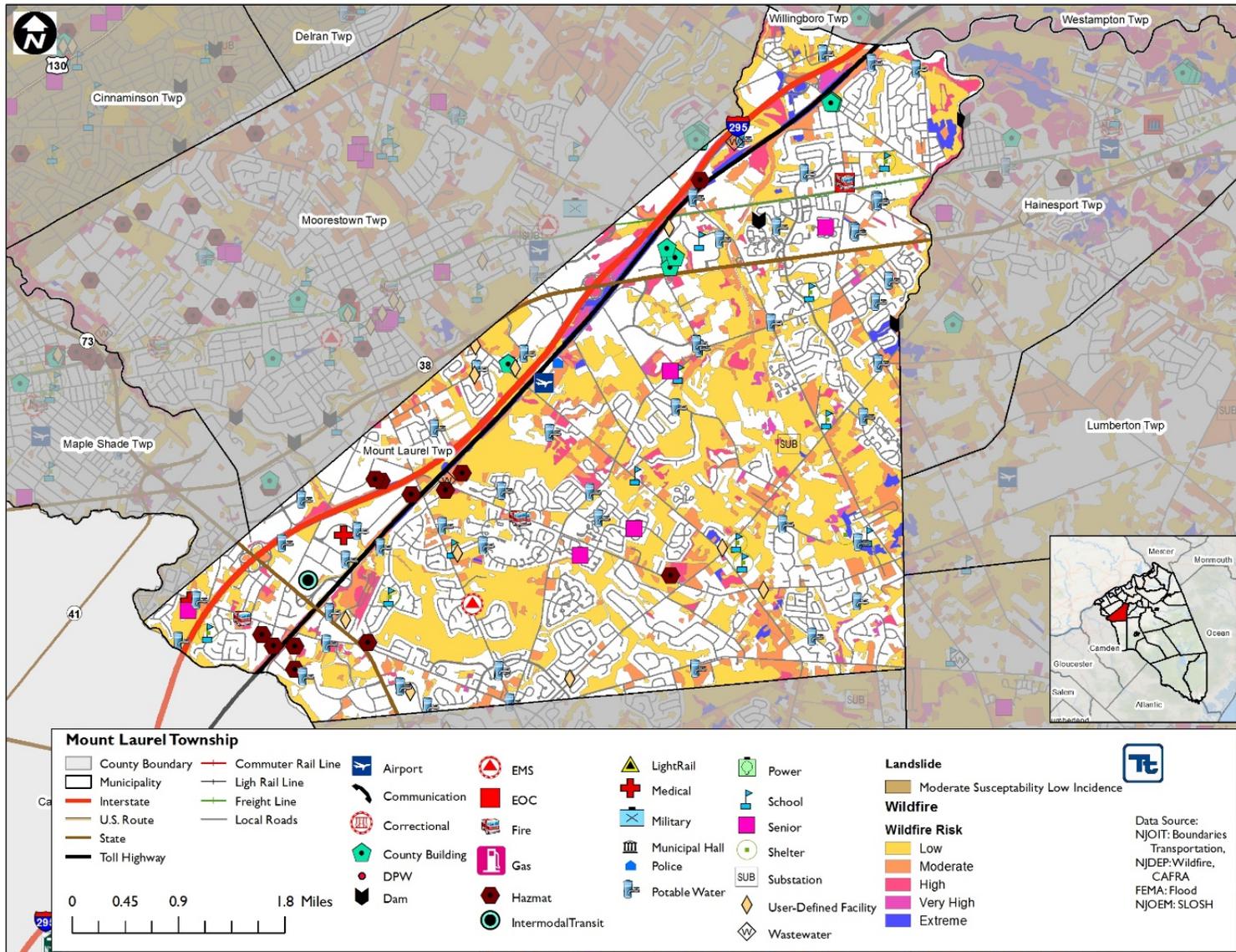




Figure 9.25-2. Township of Mount Laurel Hazard Area Extent and Location Map 2





Action Number: ML-2 (former ML-2)

Mitigation Action Name: Establish boat slips along waterfront on both sides of the local bridges to ensure emergency response launch points and capabilities for flooding events and water rescue

Assessing the Risk	
Hazard(s) addressed:	All
Specific problem being mitigated:	Points along waterways may not be easily accessible with current boat slips.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Establish stations along waterway – will be cost-prohibitive and not feasible Keep fleet of boats docked along waterway – maintaining a fleet of boats may be cost-prohibitive
Action/Project Intended for Implementation	
Description of Selected Action/Project	Establish launch points at all local bridges to allow for immediate access to the waterways from multiple locations.
Mitigation Action Type	SIP
Goals Met	1, 6
Critical Facility (Y/N)	No
Benefits (losses avoided)	Med
Estimated Cost	Medium
Priority*	Medium
Plan for Implementation	
Responsible Organization	Fire District & MUA.
Local Planning Mechanism	Hazard mitigation, emergency management
Potential Funding Sources	Municipal Budget
Timeline for Completion	Short
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 1/31/18 Status: Boats ramps are not owned by the municipal government. MUA owns 1 ramp and are researching options and funding.



Action Number:

ML-2 (former ML-2)

Mitigation Action Name:

Establish boat slips along waterfront on both sides of the local bridges to ensure emergency response launch points and capabilities for flooding events and water rescue

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Increase accessibility to boat ramps during flood events
Property Protection	0	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	0	
Fiscal	0	Need to seek funding to complete project
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	0	Flood
Timeline	1	
Agency Champion	1	
Other Community Objectives	0	
Total	7	
Priority (H/M/L)	Medium	



Action Number:

ML-3 (former ML-4)

Mitigation Action Name:

Install generators to operate gas pumps for Ramblewood Section under drainage system

Assessing the Risk	
Hazard(s) addressed:	Flood
Specific problem being mitigated:	Operation of gas pumps is critical for maintaining a constant gas flow to the Ramblewood Section.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Relocate pump stations – not technically feasible Mobile generator: may lack sufficient power supply or run time.
Action/Project Intended for Implementation	
Description of Selected Action/Project	Installation of generators and backup power required to ensure the gas flow remains operational in the event of an emergency.
Mitigation Action Type	SIP
Goals Met	1, 2
Critical Facility (Y/N)	No
Benefits (losses avoided)	High
Estimated Cost	Medium
Priority*	Medium
Plan for Implementation	
Responsible Organization	DPW & MUA
Local Planning Mechanism	Hazard mitigation, emergency management
Potential Funding Sources	HMPG
Timeline for Completion	Short
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 1/31/18 Status: Researching installation & funding options..



Action Number:

ML-3 (former ML-4)

Mitigation Action Name:

Install generators to operate gas pumps for Ramblewood Section under drainage system

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	-1	
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	1	
Timeline	1	
Agency Champion	0	
Other Community Objectives	0	
Total	8	
Priority (H/M/L)	Medium	



Action Number:

ML-5

Mitigation Action Name:

Coordinate with the facility managers at Alice Paul Birthplace in the Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage.
 Phase 1: Identify most cost-effective mitigation option
 Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.

Assessing the Risk	
Hazard(s) addressed:	Flood, Severe Storm
Specific problem being mitigated:	Critical facilities located in the floodplain are not only susceptible to flood damage but also create unnecessary complications for the municipality during an emergency event and post-disaster recovery.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Floodproof existing structures – May not necessarily reduce risk. Construct floodwalls to stop flood issues. – Will most likely interrupt natural floodplain function.
Action/Project Intended for Implementation	
Description of Selected Action/Project	Mitigation of critical facilities.
Mitigation Action Type	SIP
Goals Met	1, 2, 6
Critical Facility (Y/N)	Yes
Benefits (losses avoided)	High
Estimated Cost	High
Priority*	High
Plan for Implementation	
Responsible Organization	Municipality with support from County
Local Planning Mechanism	Hazard mitigation, emergency management
Potential Funding Sources	HMA Grants, Municipal Budget
Timeline for Completion	Short Term, DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 1/31/18 Status: New Action



Action Number:
Mitigation Action Name:

ML-5

Coordinate with the facility managers at Alice Paul Birthplace in the Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage.
 Phase 1: Identify most cost-effective mitigation option
 Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	-1	
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	0	
Timeline	0	
Agency Champion	1	
Other Community Objectives	1	
Total	9	
Priority (H/M/L)	High	



Action Number:

ML-6

Mitigation Action Name:

Coordinate with the facility managers at PLCS Inc. in the Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage.
 Phase 1: Identify most cost-effective mitigation option
 Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.

Assessing the Risk	
Hazard(s) addressed:	Flood, Severe Storm
Specific problem being mitigated:	Critical facilities located in the floodplain are not only susceptible to flood damage but also create unnecessary complications for the municipality during an emergency event and post-disaster recovery.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Floodproof existing structures – May not necessarily reduce risk. Construct floodwalls to stop flood issues. – Will most likely interrupt natural floodplain function.
Action/Project Intended for Implementation	
Description of Selected Action/Project	Mitigation of critical facilities.
Mitigation Action Type	SIP
Goals Met	1, 2, 6
Critical Facility (Y/N)	Yes
Benefits (losses avoided)	High
Estimated Cost	High
Priority*	High
Plan for Implementation	
Responsible Organization	Municipality with support from County
Local Planning Mechanism	Hazard mitigation, emergency management
Potential Funding Sources	HMA Grants, Municipal Budget
Timeline for Completion	Short Term, DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 1/31/18 Status: New Action



Action Number:
Mitigation Action Name:

ML-6

Coordinate with the facility managers at PLCS Inc. in the Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage.
 Phase 1: Identify most cost-effective mitigation option
 Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	-1	
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	0	
Timeline	0	
Agency Champion	1	
Other Community Objectives	1	
Total	9	
Priority (H/M/L)	High	



Action Number:

ML-7

Mitigation Action Name:

Coordinate with the facility managers at Pump Stations in the Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage.
 Phase 1: Identify most cost-effective mitigation option
 Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.

Assessing the Risk	
Hazard(s) addressed:	Flood, Severe Storm
Specific problem being mitigated:	Critical facilities located in the floodplain are not only susceptible to flood damage but also create unnecessary complications for the municipality during an emergency event and post-disaster recovery.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Floodproof existing structures – May not necessarily reduce risk. Construct floodwalls to stop flood issues. – Will most likely interrupt natural floodplain function.
Action/Project Intended for Implementation	
Description of Selected Action/Project	Mitigation of critical facilities.
Mitigation Action Type	SIP
Goals Met	1, 2, 6
Critical Facility (Y/N)	Yes
Benefits (losses avoided)	High
Estimated Cost	High
Priority*	High
Plan for Implementation	
Responsible Organization	Municipality with support from County
Local Planning Mechanism	Hazard mitigation, emergency management
Potential Funding Sources	HMA Grants, Municipal Budget
Timeline for Completion	Short Term, DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 1/31/18 Status: New Action



Action Number:
Mitigation Action Name:

ML-7

Coordinate with the facility managers at Pump Stations in the Township to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage.
 Phase 1: Identify most cost-effective mitigation option
 Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	-1	
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	0	
Timeline	0	
Agency Champion	1	
Other Community Objectives	1	
Total	9	
Priority (H/M/L)	High	



Action Number: ML-9

Mitigation Action Name: The Township will promote and support non-structural flood hazard mitigation alternatives for at risk properties within the floodplain, specifically those that have been identified as Repetitive Loss (RL) and Severe Repetitive Loss (SRL). At risk areas include:

- Beechwood Drive
- Schoolhouse Lane

Alternatives would include acquisition/relocation or elevation depending on feasibility, and the completion of initiative is dependent on funding, benefits versus cost, and willing participation of property owners.

Assessing the Risk	
Hazard(s) addressed:	Flood
Specific problem being mitigated:	Repetitively flooded properties place an undue stress on the property owner and Township and efforts should be made to mitigate them.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Construct flood walls/barriers around vulnerable areas – costly and can divert floodwaters to other areas Deployable flood barriers for vulnerable areas – Requires a great deal of work to implement prior to each event
Action/Project Intended for Implementation	
Description of Selected Action/Project	Work with owners to explore mitigation opportunities for repetitively flooded properties, and if appropriate and feasible, carry out acquisition, relocation, elevation and floodproofing measures to protect these properties.
Mitigation Action Type	SIP
Goals Met	1, 2
Critical Facility (Y/N)	No
Benefits (losses avoided)	High
Estimated Cost	High
Priority*	High
Plan for Implementation	
Responsible Organization	Municipality with support from County
Local Planning Mechanism	Hazard mitigation, emergency management
Potential Funding Sources	Grant funding; Municipal budget
Timeline for Completion	Short
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 1/31/18 Status: New Action



Action Number:
Mitigation Action Name:

ML-9

The Township will promote and support non-structural flood hazard mitigation alternatives for at risk properties within the floodplain, specifically those that have been identified as Repetitive Loss (RL) and Severe Repetitive Loss (SRL). At risk areas include:

- Beechwood Drive
- Schoolhouse Lane

Alternatives would include acquisition/relocation or elevation depending on feasibility, and the completion of initiative is dependent on funding, benefits versus cost, and willing participation of property owners.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	0	
Technical	1	
Political	1	
Legal	1	
Fiscal	-1	
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	0	
Timeline	1	
Agency Champion	1	
Other Community Objectives	0	
Total	8	
Priority (H/M/L)	High	



Action Number: ML-11 (Former ML-9)
Mitigation Action Name: Ensure critical Township facilities have emergency backup generator

Assessing the Risk	
Hazard(s) addressed:	All Hazards
Specific problem being mitigated:	Backup power to essential facilities is critical during an emergency event
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Solar panels: weather dependent and costly. Mobile generator: may lack sufficient power supply or run time.
Action/Project Intended for Implementation	
Description of Selected Action/Project	Installation of generators and backup power required to ensure the building's ability to remain functional during an event.
Mitigation Action Type	SIP
Goals Met	1, 2, 6
Critical Facility (Y/N)	Yes
Benefits (losses avoided)	High
Estimated Cost	High
Priority*	High
Plan for Implementation	
Responsible Organization	OEM / Twp Manager / Director of Municipal Services
Local Planning Mechanism	Emergency management
Potential Funding Sources	FEMA PDM, Grant Funding, Municipal budget
Timeline for Completion	Short Term
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 6/25/18 Status: Generators installed -. Funded through donation and local budget. Due to Winter Storm Quinn (March 2018), which left DPW building without power, municipality is now targeting the DPW building, municipal building, and fuel pumps to install backup power. Municipal building acts as a backup Emergency Operations Center.



Action Number:

ML-11 (Former ML-9)

Mitigation Action Name:

Ensure critical Township facilities have emergency backup generator

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	0	Seeking PDM funding
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	1	
Timeline	1	
Agency Champion	1	
Other Community Objectives	0	
Total	10	
Priority (H/M/L)	High	