

ANNEX 30: TOWNSHIP OF MOUNT OLIVE

1 COMMUNITY CAPABILITIES ASSESSMENT

Table 1 through Table 6 summarizes the different community capabilities and tools that are available to the community to potentially assist in mitigating the impacts of hazards.

1.1 PLANNING, LEGAL AND REGULATORY CAPABILITIES

The table below summarizes the legal and regulatory tools that are available to the Township of Mount Olive and where hazard mitigation has been integrated.

Table 1: Planning, Legal and Regulatory Capability

	Do you have this? (Yes/No)	Authority that enforces (Federal, State, Regional, County, Local)	Is this State Mandated?	Has the HMP been integrated in the last 5 years ? If yes- how?	
				If yes- how? Describe in comments	If no - can it be a mitigation action? If yes, add Mitigation Action #.
Codes, Ordinances, & Requirements					
Building Code	Yes	State, Local, Building Department	Yes	-	-
Comment: State Uniform Construction Code Act (N.J.S. 52:27D-119 et seq.)					
Zoning Code	Yes	Local	Yes	Yes	-
Comment: Chapter 550 (Land Use) – the purpose of this code is to establish a pattern for the use of land and buildings based on the land use element of the Master Plan and to effectuate the Master Plan enacted in order to encourage municipal action to guide the appropriate development of land in a manner which will promote the public health, safety, morals and general welfare of the people. This chapter is intended to regulate the use of land within zoning districts; to secure safety from fire, flood, panic and other natural and man-made disasters; to provide adequate light, air and open space; to limit and restrict buildings and structures to specified districts and to regulate buildings and structures according to their type and the nature and extent of their use; to regulate the nature and extent of the use of land for trade, industry, residence, open space or other purposes; to regulate the bulk, height, number of stories and size of buildings and other structures; to avoid conflict with the development and general welfare of neighboring municipalities, the county and the state; to establish appropriate population densities and concentrations contributing to the well-being of persons, neighborhoods, communities and regions and to the preservation of the environment; to preserve aquifers; to provide sufficient space for agricultural, residential, recreational, commercial and industrial uses and open space; to encourage the location and design of transportation routes which will promote the free flow of traffic while discouraging the location of such facilities and routes which result in congestion or blight; to promote a desirable visual environment; to promote the conservation of open space and valuable natural resources and prevent urban sprawl and degradation of the environment through improper use of land; and to encourage coordination of various public and private procedures and activities shaping land development with a view of lessening the cost of such development and to the more efficient use of land.					
Subdivisions	Yes	Local, Department of Planning and Zoning	Yes	Yes	-
Comment: Chapter 400, Article V §400-73; for any proposed subdivisions in the Township, a developer must complete a subdivision application. The developer must present a plat that includes topography, slopes, waterbodies and direction of flow.					

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	Do you have this? (Yes/No)	Authority that enforces (Federal, State, Regional, County, Local)	Is this State Mandated?	Has the HMP been integrated in the last 5 years ? If yes- how?	
				If yes- how? Describe in comments	If no - can it be a mitigation action? If yes, add Mitigation Action #.
Stormwater Management	Yes	Local	Yes	No	-
Comment:					
<ul style="list-style-type: none"> Chapter 343 (Stormwater Management) – includes articles for the stormwater management plan, illicit connections to storm sewers, and disposal of wastes in storm sewers. The code prohibits illicit connections to the municipal separate sewer systems operated by the Township. The article also prohibits the spilling, dumping or disposal of materials other than stormwater to the MS4 system operated by the Township. Chapter 318 (Sewers and Water) 					
Post-Disaster Recovery	No	-	No	-	-
Comment:					
Real Estate Disclosure	Yes	State, Division of Consumer Affairs	Yes	-	-
Comment: N.J.A.C. 13:45A-29.1					
Growth Management	No	-	-	-	-
Comment:					
Site Plan Review	Yes	Local, Department of Planning and Zoning	Yes	Yes	-
Comment: Chapter 550. Part of the Site Plan Review includes the completion of a site plan application. The application asks for details regarding the proposed project and asks for a site plan drawing that includes the any existing or proposed streams and/or flood hazard areas.					
Environmental Protection	No	-	No	-	-
Comment:					
Flood Damage Prevention	Yes	Local	Yes	Yes	-
Comment: Chapter 550, Section 47 (Flood Damage Prevention) – the purpose of this section is to promote the public health, safety and general welfare to minimize public and private losses due to flood conditions in specific areas. The Township requires a development permit before construction or development begins in any SFHA. Residential and non-residential new construction and substantial improvements of structures in the SFHA must be elevated at or above the base flood elevation.					
Wellhead Protection	Yes	Local	No	-	-
Comment: On September 20, 2010 through Township Ordinance No. 22-2010, the Township implemented regulations for wellhead protection. This is found in Chapter 550, Section 77 (Wellhead Protection) of the Township which includes the incorporation of wellhead protection area zoning into the master plan.					
Emergency Management	No	-	No	-	-
Comment:					
Climate Change	No	-	No	-	-
Comment:					
Disaster Recovery Ordinance	No	-	No	-	-
Comment:					

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				If yes- how? Describe in comments	If no - can it be a mitigation action? If yes, add Mitigation Action #.
Disaster Reconstruction Ordinance	No	-	No	-	-
Comment:					
Other	Yes	Local	No	-	-
Comment:					
<ul style="list-style-type: none"> Chapter 158 (Dam Management) – adopted on 10/8/1991 – the purpose of this code is to regulate the flow of waters over the Budd Lake Dam and to create the position of Dam Manager who is responsible for controlling the weirs of the Budd Lake Dam in accordance with the code. 					
Planning Documents					
Comprehensive / Master Plan	Yes	Local, Township Administrator	Yes	-	-
Comment: There have been subsequent updates and reexamination reports pursuant to statutory requirements. Township has a separate Master Plan for the Highlands Preservation Area. Updated in 2003 and 2013. The 2013 reexamination report was adopted by the Planning Board on June 20, 2013.					
Capital Improvement Plan	Yes	Local, Township Board	No	No	-
Comment: Capital improvements are included in the Township’s budget that is approved each year. Capital improvement line items include equipment, building upgrades, and well upgrades.					
Disaster Debris Management Plan	Yes	Local	No	-	-
Comment:					
Floodplain or Watershed Plan	No	-	No	-	-
Comment:					
Stormwater Management Plan	Yes	Local	Yes	-	-
Comment: Stormwater Management Plan for the Township of Mount Olive; adopted on April 8, 2003					
Stormwater Pollution Prevention Plan	Yes	Local	Yes	-	-
Comment: Stormwater Pollution Prevention Plan, revised June 15, 2010; see description under ‘Additional Areas of Existing Integration’					
Urban Water Management Plan	No	-	No	-	-
Comment:					
Habitat Conservation Plan	In Progress	Local	No	-	-
Comment: In progress through Highlands Grant					
Economic Development Plan	No	-	No	-	-
Comment:					

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	Do you have this? (Yes/No)	Authority that enforces (Federal, State, Regional, County, Local)	Is this State Mandated?	Has the HMP been integrated in the last 5 years ? If yes- how?	
				If yes- how? Describe in comments	If no - can it be a mitigation action? If yes, add Mitigation Action #.
Shoreline Management Plan	No	-	No	-	-
Comment:					
Community Wildfire Protection Plan	No	-	No	-	-
Comment:					
Community Forest Management Plan	No	-	No	-	-
Comment:					
Transportation Plan	No	-	No	-	-
Comment:					
Agriculture Plan	No	-	No	-	-
Comment:					
Climate Action Plan	No	-	No	-	-
Comment:					
Tourism Plan	No	-	No	-	-
Comment:					
Business Development Plan	No	-	No	-	-
Comment:					
Other	No	-	No	-	-
Comment:					
Response/Recovery Planning					
Comprehensive Emergency Management Plan (CEMP) / Emergency Operations Plan (EOP)	Yes	Local, OEM	Yes	-	-
Comment: Consists of OEM Annex, HMP and COOP/COG (updated 2014)					
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	No	-	-
Comment:					
Post-Disaster Recovery Plan	Yes	Local, OEM	No	-	-
Comment: Consists of OEM Annex, HMP and COOP/COG (updated 2014)					
Continuity of Operations Plan	Yes	EOP	No	-	-
Comment:					

	Do you have this? (Yes/No)	Authority that enforces (Federal, State, Regional, County, Local)	Is this State Mandated?	Has the HMP been integrated in the last 5 years ? If yes- how?	
				If yes- how? Describe in comments	If no - can it be a mitigation action? If yes, add Mitigation Action #.
Public Health Plan	Yes	Local, Health Department	No	-	-
Comment:					
Other	No	-	No	-	-
Comment:					

Table 2: Development and Permitting Capability

Criterion	Response
Does your jurisdiction issue development permits? - If no, who does? If yes, which department?	Yes. Planning Department
Does your jurisdiction have the ability to track permits by hazard area?	Yes
Does your jurisdiction have a buildable lands inventory? -If yes, please describe briefly. -If no, please quantitatively describe the level of buildout in the jurisdiction.	No – Cannot make the determinations unless its public land

1.2 ADMINISTRATIVE AND TECHNICAL CAPABILITIES

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

Table 3: Administrative and Technical Capabilities

Staff/Personnel Resource	Available?	Department/Agency/Position
Administrative Capability		
Planning Board	Yes	Township of Mount Olive Planning Board
Mitigation Planning Committee	No	-
Environmental Board / Commission	Yes	The Environmental Commission provides educational outreach to residents, assists the Planning Board on site plan review for environmental issues, makes recommendations/advises for environmental ordinances or policies, and works with many other committees on issues in the community regarding the community.
Open Space Board / Committee	Yes	Open Space Advisory Board
Economic Development Commission / Committee	Yes	Economic Development Committee
Warning Systems / Services (reverse 911, outdoor warning signals)	Yes	County Rave System
Maintenance program to reduce risk	Yes	Tree trimming, snow removal, catch basin clearing and maintenance, street sweeping

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Staff/Personnel Resource	Available?	Department/Agency/Position
Mutual aid agreements	Yes	Surrounding Communities, Morris County, UASI
Technical/Staffing Capability		
Planners or engineers with knowledge of land development and land management practices	Yes	Engineering Division, Planning & Zoning
Engineers or professionals trained in building or infrastructure construction practices	Yes	Engineering Division, Planning & Zoning
Planners or engineers with an understanding of natural hazards	Yes	Municipal Planner
Staff with training in benefit/cost analysis	Yes	Engineering Division, Planning & Zoning
Staff with training in green infrastructure	No	
Staff with education/knowledge/training in low impact development	Yes	Planning Department
Surveyor	Yes	Consultant
Stormwater engineer	Yes	Consultant
Personnel skilled or trained in GIS applications	No	
Local or state water quality professional	Yes	Consultant
Scientist familiar with natural hazards in local area	No	
Emergency manager	Yes	OEM
Watershed planner	Yes	Consultant to Township
Environmental specialist	Yes	Environmental Consultant
Grant writers	Yes	Engineering Division, Planning & Zoning
Resilience Officer	No	
Other (Professionals trained in conducting damage assessments)	Yes	In-house staff performs estimates

1.3 FISCAL CAPABILITIES

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

Table 4: Fiscal Capabilities

Financial Resource	Accessible or Eligible to Use?
Community Development Block Grants (CDBG, CDBG-DR)	Yes
Capital Improvements Project Funding	Yes
Authority to Levy Taxes for Specific Purposes	Yes
User Fees for Water, Sewer, Gas or Electric Service	No
Incur Debt through General Obligation Bonds	Yes
Incur Debt through Special Tax Bonds	Yes
Incur Debt through Private Activity Bonds	No
Withhold Public Expenditures in Hazard-Prone Areas	No
State-Sponsored Grant Programs	Yes
Development Impact Fees for Homebuyers or Developers	Yes
Clean Water Act 319 Grants (Nonpoint Source Pollution)	No
Other	No

1.4 EDUCATION AND OUTREACH CAPABILITIES

The table below summarizes the education and outreach resources available to the Township of Mount Olive.

Table 5: Education and Outreach Capabilities

Criterion	Response
Do you have a public information officer or communications office?	Yes – Police Department
Do you have personnel skilled or trained in website development?	Yes – In-house
Do you have hazard mitigation information available on your website? <ul style="list-style-type: none"> If yes, briefly describe. 	Yes – Municipal website provides upcoming meetings, announcements, and emergency alerts. The Township also has a weekly newsletter that provides residents with information about the Township
Do you use social media for hazard mitigation education and outreach? <ul style="list-style-type: none"> If yes, briefly describe. 	Yes – Facebook, Twitter. The Township also uses their website, radio, print, and face-to-face meetings for community education and outreach.
Do you have any citizen boards or commissions that address issues related to hazard mitigation? <ul style="list-style-type: none"> If yes, briefly describe. 	No
Do you have any other programs already in place that could be used to communicate hazard-related information? <ul style="list-style-type: none"> If yes, briefly describe. 	Yes – Newsletter, tax bill, etc.
Do you have any established warning systems for hazard events? <ul style="list-style-type: none"> If yes, briefly describe. 	Yes - RAVE

1.5 COMMUNITY CLASSIFICATIONS

The table below summarizes the classifications for community programs available to the Township of Mount Olive.

Table 6: Community Classifications

Program	Participating?	Classification	Date Classified
Community Rating System	No	NP	N/A
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (Fire ISO Protection Class)	Yes	4	4/2/15
Storm Ready Certification	No	NP	N/A
Firewise Community Classification	No	NP	N/A
Sustainable Jersey	Yes	Bronze	10/30/2019

1.6 NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE

This section provides specific information on the management and regulation of the regulatory floodplain.

Table 7: National Flood Insurance Program Compliance

Criterion	Response
What local department is responsible for floodplain management?	Engineering Consultant
Who is your floodplain administrator? (name, department/position)	Town Engineer
Are any certified floodplain managers on staff in your jurisdiction?	No
What is the date that your flood damage prevention ordinance was last amended?	2003
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> If exceeds, in what ways? 	Meets the minimum
When was the most recent Community Assistance Visit or Community Assistance Contact?	March 14, 2001
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> If so, state what they are. 	No
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> If so, state what they are. 	No
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> If no, state why. 	No – Maps are from 1986; the new ones need to be adopted so they can use them
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> If so, what type of assistance/training is needed? 	Yes
Does your jurisdiction participate in the Community Rating System (CRS)? <ul style="list-style-type: none"> If yes, is your jurisdiction interested in improving its CRS Classification? If no, is your jurisdiction interested in joining the CRS program? 	No
How many flood insurance policies are in force in your jurisdiction? <ul style="list-style-type: none"> What is the insurance in force? What is the premium in force? 	76 Policies in force. \$23,739,000 Insurance In-Force. \$92,915 Premium In-Force.
How many total loss claims have been filed in your jurisdiction? <ul style="list-style-type: none"> How many claims are still open or were closed without payment? What were the total payments for losses? 	65 Claims. 0 claims still open, 18 claims closed without payment. \$669,876 claim amount
Do you maintain a list of properties that have been damaged by flooding?	No
Do you maintain a list of property owners interested in flood mitigation?	No – Homeowners have not shown an interest in mitigation

2 HAZARD ANALYSIS AND RISK ASSESSMENT

2.1 HAZARD AREA EXTENT AND LOCATION

Hazard area extent and location maps were generated for the Township of Mount Olive 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 adequate for planning purposes. Maps have been generated only for those hazards that can be clearly identified using mapping techniques and technologies and for which the Township of Mount Olive has significant exposure. Refer to Figure 1 and Figure 2.

2.2 REPETITIVE FLOOD LOSSES

The following summarizes the repetitive and severe repetitive flood losses in the Township of Mount Olive.

- Number of repetitive loss (RL) properties: 4
- Number of severe repetitive loss (SRL) properties: 0
- Number of RL/SRL properties that have been mitigated: 0

2.3 CRITICAL FACILITIES

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain.

Table 8: Potential Flood Losses to Critical Facilities and Lifelines

Name	Type	1% Event	0.2% Event
Clover Hill STP	Wastewater	X	X
Upper Waterloo Lake Dam	Dam	X	X

**Identified lifeline*

2.4 HAZARD RANKING

This section includes the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Section 3 (Risk Assessment). The Township of Mount Olive has reviewed the Morris County hazard ranking table, as well as its individual results, to reflect the relative risk of the hazards of concern to the community. During the review of the hazard ranking, the Township agreed with the calculated rankings for each hazard of concern.

Table 9: Township of Mount Olive Hazard Ranking Input

Hazard	Ranking	Hazard	Ranking
Drought	Moderate	Hazardous Substances	High
Earthquake	Moderate	Severe Weather	High
Extreme Temperatures	Moderate	Severe Winter Storm	High
Flood	High	Wildfire	Moderate
Geological Hazards	Moderate		

2.5 COMPLETED ACTIONS

Township of Mount Olive reported no completed actions.

2.6 CANCELLED ACTIONS

Township of Mount Olive reported the following cancelled actions.

2020 Action	Mitigation Action Name	Project Description	Justification
2020-Mount Olive-001	Feasibility Study of Manor House Road	Homes in the area of Manor House Road have experienced flooding and flood-related damages. A better understanding of the cause of flooding is needed to determine the best mitigation solutions for this section of the Township. Conduct a feasibility study to determine the sources of flooding and identify mitigation solutions to protect homes and infrastructure. Once projects are identified, the Township will implement the best solution for this section of the Township.	No study was done as major road improvements were made to raise the roadway above flooding. There have been no issues since.
2020-Mount Olive-002	Down Stream Drive and Pheasant Court Upgrades	Inadequate stormwater control system in the area of Down Stream Drive and Pheasant Court. Upgrade underground piping of stormwater control system for Down Stream Drive and Pheasant Court.	The problem is not with the stormwater control system, rather the increased water levels in the stream.
2020-Mount Olive-004	Sewer Treatment Plant Flood Protection	Clover Hill Sewer Treatment Plant is located in the 1% and 0.2% floodplain and vulnerable to flooding and damage. Conduct a feasibility study to provide mitigation solutions	Flooding has not occurred. No longer a priority.

2020 Action	Mitigation Action Name	Project Description	Justification
		and select the best alternative for mitigation of flood impacts.	

2.7 HAZARD MITIGATION STRATEGY

2.7.1 BACKGROUND INFORMATION

Action	Jurisdiction	Mitigation Action Name	What is the problem the action is solving?	How does the action solve the problem?	Is this a continuing action from 2020 plan? Yes/No	2024 Project Status Provided by Respondent (not applicable to any new actions) Not Started In Progress
1	Mt Olive	Update Township's Flood Damage Prevention Ordinance	The Township's current flood damage prevention ordinance does not currently meet the NJDEP flood hazard area design requirement of at minimum of one foot above the base flood elevation.	Update the Township's flood damage prevention ordinance to include the NJDEP requirement of having the bottom of the first floor be elevated at least one foot above the base flood elevation for any development in the SFHA. The new flood maps need to be approved first before the Township takes action.	Yes	Not Started

Action	Jurisdiction	Mitigation Action Name	What is the problem the action is solving?	How does the action solve the problem?	Is this a continuing action from 2020 plan? Yes/No	2024 Project Status Provided by Respondent (not applicable to any new actions) Not Started In Progress
2	Mt Olive	Mitigate Floodprone Properties	Frequent flooding events have resulted in damage to properties/structures in the Hermaine Drive area.	Conduct outreach to 5 flood-prone property owners and provide mitigation alternatives. Develop a FEMA grant application to obtain funding to elevate homes and grade properties.	Yes	Not Started.
3	Mt Olive	Debris Management Plan	The Township lacks a comprehensive debris management plan.	Develop a debris management plan	No	New

2.7.2 IMPLEMENTATION INFORMATION

	What is the main hazard from the 2025 update that the action mitigates?	List any additional hazards from the 2025 mitigation plan update that the action mitigates	What is the main goal that the action addresses?	List any additional goals that the action addresses	What agencies will lead the implementation of this action?	What agencies will support the implementation of this action?	What are potential sources of funding that can support this mitigation action?	What benefits does this action provide?
1	Flood	N/A	Goal 1	N/A	<u>Township Administration</u>	The NJ DEP	Township budget	Increase flood protection of

	What is the main hazard from the 2025 update that the action mitigates?	List any additional hazards from the 2025 mitigation plan update that the action mitigates	What is the main goal that the action addresses?	List any additional goals that the action addresses	What agencies will lead the implementation of this action?	What agencies will support the implementation of this action?	What are potential sources of funding that can support this mitigation action?	What benefits does this action provide?
								structures in floodplain
2	Flood	N/A	Goal 1	N/A	<u>Floodplain Administrator and Homeowners</u>	FEMA, NJ DEP	FEMA FMA and HMGP, Township Budget or Homeowner (local match)	Informs residents of different mitigation measures, increases protection from flooding
3	All Hazards	N/A	Goal 1	N/A	<u>OEM</u>	Township Administration	Municipal funding	Comprehensive post-disaster debris management program

2.7.3 STRATEGY RANKING AND PRIORITIZATION

	What is the estimated cost of this action?	What is the estimated timeline for this action to be implemented?	Potential for Lives Saved 1 - Little Potential 2 - Some Potential 3 - Major Potential	Potential for Reduced Property Damages 1 - Little Potential 2 - Some Potential 3 - Major Potential	Potential for Reduced Response Actions 1 - Little Potential 2 - Some Potential 3 - Major Potential	Benefits Exceed Costs 0 - BCA equal 2 - Minor Exceedance 3 - Major Exceedance	Community Action Priority Ranking 1 - Low Priority 2 - Medium Priority 3 - High Priority	Total	Action Priority
1	Under \$50k	Under 1 year	1	2	1	3	2	9	Medium

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	What is the estimated cost of this action?	What is the estimated timeline for this action to be implemented?	Potential for Lives Saved 1 - Little Potential 2 - Some Potential 3 - Major Potential	Potential for Reduced Property Damages 1 - Little Potential 2 - Some Potential 3 - Major Potential	Potential for Reduced Response Actions 1 - Little Potential 2 - Some Potential 3 - Major Potential	Benefits Exceed Costs 0 - BCA equal 2 - Minor Exceedance 3 - Major Exceedance	Community Action Priority Ranking 1 - Low Priority 2 - Medium Priority 3 - High Priority	Total	Action Priority
2	Over \$1M	3-5 years	1	2	1	1	2	7	Low
3	Under \$100k	3-5 years	1	1	2	3	3	10	Medium

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Figure 1: Township of Mount Olive Hazard Area Extent and Location Map 1

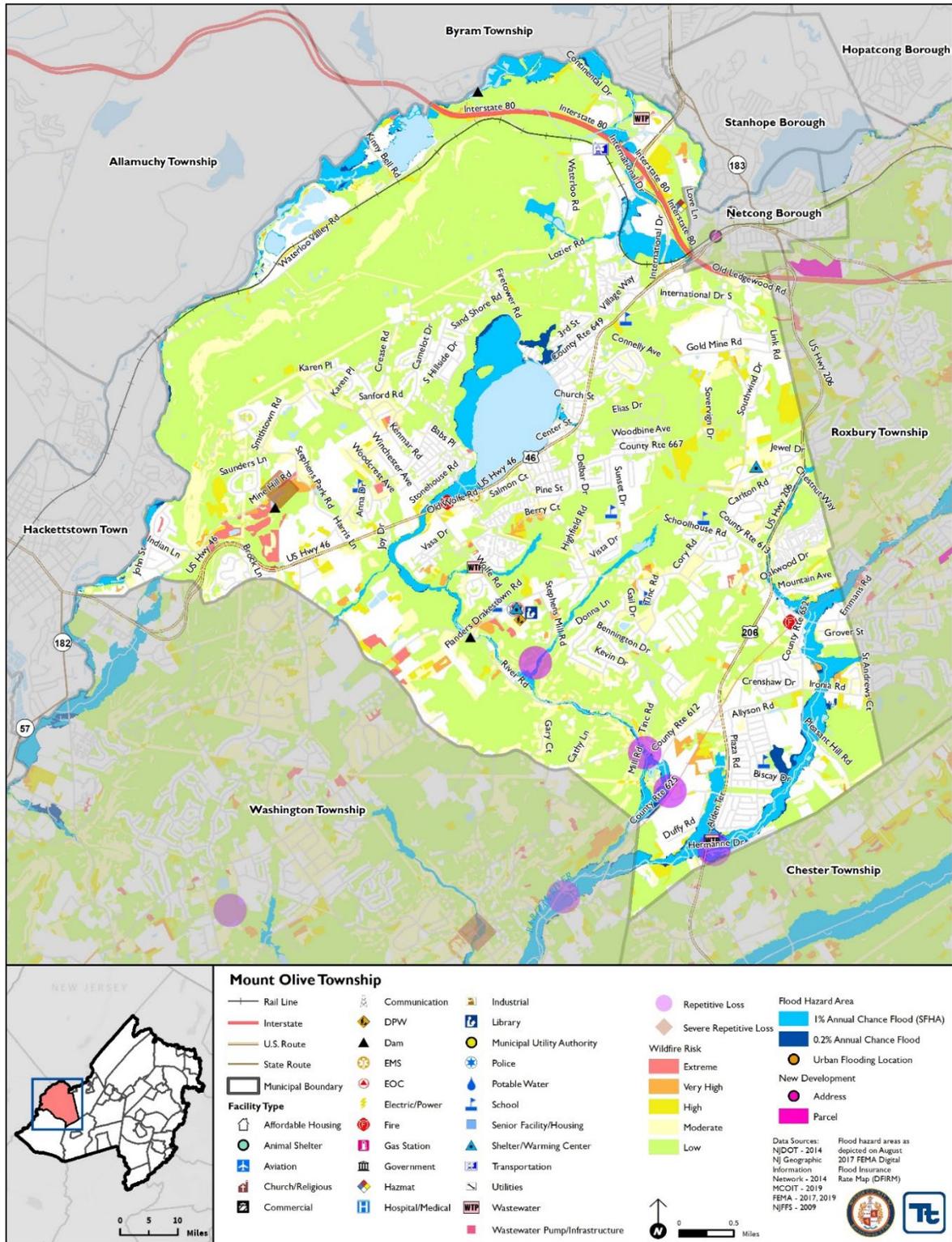


Figure 2: Township of Mount Olive Hazard Area Extent and Location Map 2

