9.3 Borough of Alpha

This section presents the jurisdictional annex for the Borough of Alpha.

9.3.1 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
Hunter Stagg, OEM 1001 East Boulevard, Alpha, NJ 08865 (908) 892-6559 hstagg@alphaboro.org	Frank Seney, Borough Engineer 1001 East Boulevard, Alpha, NJ 08865 (856) 795-9595 fseney@rve.com

9.3.2 Municipal Profile

The Borough of Alpha is located in southern Warren County. It was incorporated as a borough from portions of Pohatcong Township on June 26, 1911. The Borough encompasses 1.7 square miles and is surrounded completely by Pohatcong Township. According to the U.S. Census, the 2010 population for Borough of Alpha was 2,369.

Growth/Development Trends

The following table summarizes recent residential/commercial development since 2010 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 section 9.3.8 of this annex which illustrates the hazard areas along with the location of potential new development.

Table 9.3-1. 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 2010 to present					
None identified at this time.					
Known or Anticipated Development in the Next Five (5) Years					
The Grande at Park Ridge Estates	Res.	93 units – single family	Rt. 519 Springtown Road	Could not be located	Approved
Bryant Property	Res.	48 units - single family	7th Avenue	Could not be located	Approved

** Only location-specific hazard zones or vulnerabilities identified.*

9.3.3 Natural Hazard Event History Specific to the Municipality

Warren 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 2008 to present were summarized to indicate the range and impact of hazard events in the community.

Information regarding specific damages at the municipal level, is presented in the table below. This summary is based on reference material or local sources. For further details on these and additional events, refer to Volume I, Section 5.0 of this plan.

Table 9.3-2. Hazard Event History

Date(s) of Event	Event Type	FEMA Declaration # (If Applicable)	County Designated?	Summary of Damages/Losses
October 26 – November 8, 2012	Hurricane Sandy	DR-4086	Yes	The DPW Salt Shed had canopy blown away and damaged, and generator was needed to get the fuel pumps going. There were downed wires; downed trees on houses, roadways, cars. The Fire House lost power and needed fuel for the generator. The Fire House was opened as a shelter for 52 hours (two nights for approximately 60 residents), as well as for charging cell phones and providing water. Power was out for 48 hours until fully restored. Command started at 11pm the night before the storm at the Fire House. Costs were incurred from debris collection and disposal; fuel for fire trucks due to numerous calls; overt-time for fire (volunteer time for fire). Police is subcontracted and rescue is from Phillipsburg.

9.3.4 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 risk ranking methodology is presented in Section 5.3. However, each municipality had the opportunity to adjust the final ranking based on municipal feedback. The following summarizes the hazard vulnerabilities and their ranking in the Borough of Alpha. 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 Borough of Alpha.

Table 9.3-2. 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]
Dam Failure	Damage estimate not available		Rare	6	Low
Drought	Damage estimate not available		Frequent	30	Medium
Earthquake	100-Year GBS:	$0	Occasional	28	Medium
	500-Year GBS:	$87,998			
	2,500-Year GBS:	$1,367,060			
Flood	1% Annual Chance:	$2,504,000	Frequent	18	Medium
Geologic	RCV Exposed to Carbonate Rock Areas:	$236,072,450	Occasional	36	High
Hurricane	100-year MRP:	$58,618.00	Frequent	48	High
	500-year MRP:	664923			
	Annualized:	$5,995.00			
Nor'Easter	Damage estimate not available		Frequent	48	High
Severe Storm	100-Year MRP:	$58,618	Frequent	48	High
	500-year MRP:	$664,923			

Table 9.3-2. 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]
	Annualized:	$5,995			
Severe Winter Storm	1% GBS:	$1,424,422	Frequent	51	High
	5% GBS:	$7,122,110			
Wildfire	Estimated Value in the Extreme, Very High, and High Hazard Areas:	$3,175,000	Frequent	24	Medium
Hazardous Materials	Damage estimate not available		Frequent	36	High

Notes:
GBS = General building stock; MRP = Mean return period.

a. The general building stock valuation is based on the custom inventory generated for the municipality and based on improved value.

b. 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 estimated value of contents. Loss estimates for the flood and earthquake hazards represent both structure and contents. Potential flood loss estimates were generated using Hazus-MH 2.2 and the 2011 FEMA DFIRM for the 1-percent annual chance event. For the geologic and wildfire hazards, the improved value and estimated contents of buildings located within the identified hazard zones is provided.

National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Borough of Alpha.

Table 9.3-3. NFIP Summary

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 1% Flood Boundary (3)
Alpha, Borough of	2	4	$1,280	0	0	2

Source: FEMA, 2014
Note (1) Policies, claims, repetitive loss and severe repetitive loss statistics provided by FEMA and are current as of December 31, 2014 and are summarized by Community Name. Please note the total number of repetitive loss properties excludes the severe repetitive loss properties. Number of claims includes open and closed claims. The number of claims represents claims closed by 12/31/2014.
Note (2) Total building and content losses from the claims file provided by FEMA Region 2.
Note (3) The policies inside and outside of the flood zones is based on the latitude and longitude provided by FEMA Region 2 in the policy file.
Note (4) 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.
Note (5) A zero percentage denotes less than 1/100th percentage and not zero damages or vulnerability as may be the case.

Critical Facilities

There are no critical facilities located in the FEMA 1% or 0.2% annual chance boundary.

Other Vulnerabilities Identified by Municipality

The hazard profiles in Section 5.0 of this plan have detailed information regarding each plan participant's vulnerability to the identified hazards. Further, mitigation projects have been identified that may more specifically detail vulnerabilities in the community. There are no additional vulnerabilities identified at this time.

9.3.5 Capability Assessment

This section identifies the following capabilities of the local jurisdiction:

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Education/Outreach and Community classification
- Self-Assessment of Capability
- 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 Borough of Alpha.

Table 9.3-4. 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	Local		2010
Capital Improvements Plan	Yes	Local	Governing Body	Municipal Budget
Floodplain Management / Basin Plan	No			
Stormwater Management Plan	Yes	Local		Stormwater Pollution Prevention Plan updated annually each May
Open Space Plan	Yes	Local		
Stream Corridor Management Plan	No			
Watershed Management or Protection Plan	No			
Economic Development Plan	No			
Comprehensive Emergency Management Plan	Yes	County and Local	OEM	Emergency Operations Plan (EOP)
Emergency Response Plan	Yes	Local		Emergency Operations Plan (EOP)
Post-Disaster Recovery Plan	No			
Transportation Plan	Yes			Master Plan Element
Strategic Recovery Planning Report	No			
Other Plans:				
Regulatory Capability				
Building Code	Yes	State & Local		State Uniform Construction Code Act (N.J.S. 52:27D-119 et seq.)
Zoning Ordinance	Yes	Local	Construction & Zoning Official	Chapter 410 (Zoning)
Subdivision Ordinance				

Table 9.3-4. 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.)
NFIP Flood Damage Prevention Ordinance	Yes	Federal, State, Local	Borough	Chapter 222 (Flood Damage Prevention)
NFIP: Cumulative Substantial Damages	No			
NFIP: Freeboard	Yes	State, Local		
Growth Management Ordinances				
Site Plan Review Requirements				Conducted by the Planning Board
Stormwater Management Ordinance	Yes	Local	Borough Engineer	Chapter 350 (Stormwater Management), May 2006
Municipal Separate Storm Sewer System (MS4)				Stormwater Pollution Prevention Plan updated annually each May
Natural Hazard Ordinance				
Post-Disaster Recovery Ordinance				Refer the EOP
Real Estate Disclosure Requirement				
Other [Special Purpose Ordinances (i.e., sensitive areas, steep slope)]				

Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Borough of Alpha.

Table 9.3-5. Administrative and Technical Capabilities

Resources	Is this in place? (Yes or No)	Department/ Agency/Position
Administrative Capability		
Planning Board	Yes	Planning Board
Mitigation Planning Committee	Yes	Hunter Stagg - OEM
Environmental Board/Commission	No	
Open Space Board/Committee	No	
Economic Development Commission/Committee	No	
Maintenance Programs to Reduce Risk	No	
Mutual Aid Agreements	Yes	For police (Phillipsburg), fire (MA with Huntington Fire Company; Holland Township Fire Company; Stewartsville Fire Company; Phillipsburgh Fire Company) and rescue (Phillipsburgh)
Technical/Staffing Capability		
Planner(s) or Engineer(s) with knowledge of land development and land management practices	Yes	Contracted engineer – Frank Seney (Remington & Vernick Engineers)

Table 9.3-5. Administrative and Technical Capabilities

Resources	Is this in place? (Yes or No)	Department/ Agency/Position
Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Yes	Contracted engineer – Frank Seney (Remington & Vernick Engineers)
Planners or engineers with an understanding of natural hazards	Yes	Contracted engineer – Frank Seney (Remington & Vernick Engineers)
NFIP Floodplain Administrator	Yes	Building Inspector as per Borough Code (Chapter 222)
Surveyor(s)	Yes	Contracted engineer – Frank Seney (Remington & Vernick Engineers)
Personnel skilled or trained in GIS and/or Hazus-MH applications	Yes	Contracted engineer – Frank Seney (Remington & Vernick Engineers)
Scientist familiar with natural hazards	Yes	Contracted engineer – Environmental Scientists
Emergency Manager	Yes	Hunter Stagg
Grant Writer(s)	Yes	Contracted
Staff with expertise or training in benefit/cost analysis	Yes	Contracted engineer – Frank Seney (Remington & Vernick Engineers)
Professionals trained in conducting damage assessments	Yes	OEM conducts initial assessments and report

Fiscal Capability

The table below summarizes financial resources available to the Borough of Alpha.

Table 9.3-6. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No/Don't Know)
Community development Block Grants (CDBG, CDBG-DR)	No
Capital Improvements Project Funding	Yes
Authority to Levy Taxes for specific purposes	Open Space – maintain public open space in the Borough; acquisitions have been conducted leveraging open space funding
User fees for water, sewer, gas or electric service	Water and sewer
Impact Fees for homebuyers or developers of new development/ homes	No
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	Yes – NJDOT Transportation Trust Fund Federal Aid Funding NJOEM Funding – generator Fire Departments – Fire Grants (awarded grants for turn-out gear; SCBAs; Truck to fill SCBAs)
Open Space Acquisition Funding Programs	NJDEP Green Acres Municipal Open Space, Recreation, and Farmland and Historic Preservation Trust Fund (Chapter 39, Article 1)
Other	NJDEP water programs

Education/Outreach and Community Classifications

The table below summarizes education/outreach programs the community participates in and the classifications for community program available to the Borough of Alpha.

Table 9.3-7. Education/Outreach and Community Classifications

Program	Do you have / participate in this? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	NP	N/A
Building Code Effectiveness Grading Schedule (BCEGS)	NEED INFO	NEED INFO	NEED INFO
Public Protection (ISO Fire Protection Classes 1 to 10)	NEED INFO	NEED INFO	NEED INFO
Storm Ready	No	NP	N/A
Firewise	No	NP	N/A
Disaster/Safety Programs in/for Schools	Yes	DARE program	
Organizations with Mitigation Focus (advocacy group, non-government)	No		
Public Education Program/Outreach (through website, social media)	Yes	Reverse 911 system (Code Red – contracted out of Florida) – reach via text, phone or email – storm warnings, street closures, water main breaks; Button on website to sign up Assistance for vulnerable populations lead by Public Safety Director	
Public-Private Partnerships	Yes	Partnership with company in town that sets aside generators for the Borough for renting to utilize for public services; ShopRite – offer pallets of water Red Cross – good relationship Fire house is a registered Red Cross Shelter Phillipsburg High School is the Borough's overage shelter Crude Oil train – if there is an incident Phillipsburg HS shelter available	

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 http://www.isomitigation.com/ppc/0000/ppc0001.html
- The National Weather Service Storm Ready website at http://www.weather.gov/stormready/howto.htm
- The National Firewise Communities website at http://firewise.org/

Self-Assessment of Capability

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

Table 9.3-8. Self-Assessment of Capability

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)

Kevin Duddy, Construction Official is the FPA for the Borough of Alpha.

Flood Vulnerability Summary

The Borough does not maintain lists/inventories of properties that have been damaged by floods. During Sandy, Irene and Lee, the Borough did not have any damage reported to them. The FPA does not make Substantial Damage estimates. Currently, there are no properties in the Borough interested in mitigation.

Resources

The FPA is the sole person assuming the responsibilities of floodplain administration. NFIP administration services provided by the FPA include permit review, inspections, and record-keeping. Flood risk in the Borough is very minimal; therefore, the Borough and FPA does not provide any education or outreach regarding flood hazards/risk or flood risk reduction in the Borough. The FPA did not indicate any barriers to running an effective floodplain management program in the Borough. The FPA feels adequately supported and trained to fulfill his responsibilities as the municipal floodplain administrator. Additionally, the FPA would consider attending continuing education and/or certification training on floodplain management if it was offered.

Compliance History

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

Regulatory

The Borough's floodplain management regulations and ordinances exceed the FEMA and state minimum requirements. Additionally, there are other local ordinances, plans and programs that support floodplain management and includes the Borough's flood prevention damage ordinance. It is unknown if the Borough has considered joining CRS. If a CRS seminar was offered locally and the Borough wants to send the FPA, then he would attend.

Community Rating System

The Borough of Alpha does not participate in the Community Rating System (CRS) program.

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

The 2013 Land Use and Circulation Plan's main goals include to protect and preserve the Borough's natural and cultural resources to management stormwater, reduce potential for flood damage, provide open space, as well as to promote the continuation, expansion and support of agricultural and horticultural uses and opportunities. The Plan proposes many changes to existing zoning districts, including the creation of an agricultural district, which will require Best Management Practices, such as the development and implementation of a farm conservation plan. The Plan also proposes the adoption of a conservation plan element and to implement LEED Green Building concepts in developments located within the industrial zone. The Plan provides guidelines on how to regulate and manage natural resource districts detailed in the Environmental Resource Inventory (steep slopes, riparian corridors, carbonate rock, etc.).

The Borough is located entirely within the Highlands Planning Area of the Highlands Region. As such, the Borough is protected by and subject to the provisions of the Highlands Water Protection and Planning Act that protects, enhances and restores Highland's natural resources. The Borough has chosen to conform its master plan, development regulations, and other regulations applicable to the use and development of land within the Planning Area to achieve consistency with the goals, requirements, and provisions of the Highlands Regional Master Plan.

The Borough adopted its Environmental Resource Inventory (ERI) in 2011. The main purpose of the ERI is to identify natural resources and environmentally sensitive areas to aid in Land Use development decisions. The ERI set up various natural resource districts and the requirements for delineating them.

Regulatory and Enforcement (Ordinances)

The Borough has multiple ordinances pertaining to the mitigation of hazards. These ordinances include the NFIP Flood Damage Prevention Ordinance, a stormwater management ordinance and a flood damage prevention ordinance.

The Borough is reviewing and approving major development residential projects in accordance with the Residential Site Improvement Standards. The Borough would like to increase protection of stormwater infrastructure.

The Borough encourages the consideration of low occupancy, low-density zoning in hazard areas when practical. The Borough also limits development in high hazard areas. When updating the municipal ordinances, hazard mitigation is and will continue to be a priority. When reviewing permits, the process includes addressing hazards in the Borough. Hazard resistant construction standards are incorporated into the design and location of projects as well. The Borough's rezoning procedures also recognize hazard areas as limits on zoning changes.

Operational and Administration

The Borough is currently working on establishing a CERT Program.

Funding

The Borough has a reserve in the general capital fund designated as the "Municipal Open Space, Recreation, and Farmland and Historic Preservation Trust Fund" (Chapter 39-1). This is a special bank account to assist with the acquisition, maintenance and preservation of lands for recreation and conservation purposes and preservation of historic properties. The tax to support this fund was originally one cent per $100 of valuation and increased to two cents in 2000. This fund has been used to acquire open space in the past (http://www.co.warren.nj.us/Environment/mun/alpha.html).

Education and Outreach

The Borough provides emergency notification information to the community through the use of the Code Red emergency notification system. There is also a Home Outreach Program will allows emergency services to check on the elderly or disabled who live alone or are home alone. The Borough's Public Safety Director works closely with the schools (DARE program).

There are private partnerships with the Borough and companies in the Borough. For example, ShopRite offers pallets of water during disasters; and there is a local company that set aside generators for the Borough for renting during power outages (e.g., Hurricane Sandy).

9.3.6 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 2011 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 9.3-9. Past Mitigation Initiative Status

2010 Mitigation Action	Responsible Organization	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 Step (Include in 2016 HMP? or Discontinue)	Describe Next Step 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why
Retrofit road to meet current snow load standards on Alpha Public School located on North Boulevard.	School Board Administrator	Complete	North Boulevard has had some enhancements made over the years (curbing, sidewalks, etc).		No further action
Storm-water management system upgrade and improvement along Route 519 near Homa Lane.	Boro OEM	In Progress	Summer of 2013 the Warren County Mosquito Commission cleaned the system. A study was conducted in February 2014 to determine alternatives to controlling stormwater.	Include in 2015 HMP	Storm-water management system upgrade and improvement along Route 519 near Homa Lane (estimated 25 year storm). Contemplating using Open Space funding to implement. High Priority
Conduct all hazards public education and outreach program for hazard mitigation and preparedness.	WCOEM, Boro OEM	In Progress	Code Red Trying to fulfill the CERT – OEM is the lead	Include in 2015 HMP	Conduct all hazards public education and outreach program for hazard mitigation and preparedness. Trying to fulfill the CERT – OEM is the lead

Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy

There are no additional mitigation projects/activities identified that have also been completed but were not identified in the previous mitigation strategy in the 2011 Plan.

Proposed Hazard Mitigation Initiatives for the Plan Update

The County hosted a mitigation action workshop in March 2015 and 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). In May 2015, the County hosted a second workshop led by FEMA Region 2 and NJOEM and was provided the results to the risk assessment to further assist with the identification of mitigation actions. In June 2015, the Borough met with the HMP consultant to review their annex and identify mitigation actions.

Table 9.3-11 summarizes the comprehensive-range of specific mitigation initiatives the Borough 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.' Table 9.3-12 below summarizes the evaluation of each mitigation initiative, listed by Action Number.

Table 9.3-10. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
Alpha Boro-1 (old)	Storm-water management system upgrade and improvement along Route 519 near Homa Lane (estimated 25 year storm). Contemplating using Open Space funding to implement.	Existing	Flood	1, 2	Borough OEM	High	High	FEMA grants with local cost share	Short Term / DOF	High	SIP	PP
Alpha Boro-2 (old)	Conduct all hazards public education and outreach program for hazard mitigation and preparedness. Trying to fulfill the CERT.	N/A	All	1, 3	Borough OEM in coordination with County OEM	High	Low	FEMA grants with local cost share	Short Term / Ongoing	High	LPR, EAP	PR, PI
Alpha Boro-3	Support continuity of operations and obtain backup power at the fire house (LOI #860), municipal complex and the elementary school.	Existing	All	1, 2, 6	Borough OEM	High	High ($110,000 at Fire House)	FEMA HMGP with local cost share	Short Term	High	SIP	PP
Alpha Boro-4	Fire House – construct an additional bay in fire house and purchase/acquire additional fire/rescue truck	Existing	All	1, 2, 6	Borough OEM	High	High	Fire Grants	Short Term / DOF	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:

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*
NJDEP	*New Jersey Department of Environmental Protection*
NJOEM	*New Jersey Office of Emergency Management*
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*
HMA	*Hazard Mitigation Assistance Program*

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*
High *> $100,000*

Where actual project costs cannot reasonably be established at this time:
Low *Possible to fund under existing budget. Project is part of, or can be part of an existing on-going program.*
Medium *Could budget for under existing work plan, but would require a reapportionment of the budget or a budget amendment, or the cost of the project would have to be spread over multiple years.*
High *Would require an increase in revenue via an alternative source (i.e., bonds, grants, fee increases) to implement. Existing funding levels are not adequate to cover the costs of the proposed project.*

Benefits:
Where possible, an estimate of project benefits (per FEMA's benefit calculation methodology) has been evaluated against the project costs, and is presented as:
Low= *< $10,000*
Medium *$10,000 to $100,000*
High *> $100,000*

Where numerical project benefits cannot reasonably be established at this time:
Low *Long-term benefits of the project are difficult to quantify in the short term.*
Medium *Project will have a long-term impact on the reduction of risk exposure to life and property, or project will provide an immediate reduction in the risk exposure to property.*
High *Project will have an immediate impact on the reduction of risk exposure to life and property.*

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 9.3-11. 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 Objectives	Total	High / Medium / Low
Alpha Boro-1 (old)	Storm-water management system upgrade and improvement along Route 519 near Homa Lane (estimated 25 year storm). Contemplating using Open Space funding to implement.	1	1	1	1	1	1	0	0	0	1	1	1	0	0	9	High
Alpha Boro-2 (old)	Conduct all hazards public education and outreach program for hazard mitigation and preparedness. Trying to fulfill the CERT.	1	1	1	1	1	1	0	0	0	1	1	1	0	0	9	High
Alpha Boro-3	Support continuity of operations and obtain backup power at the fire house (LOI #860), municipal complex and the elementary school.	1	1	1	1	1	1	0	0	0	1	1	1	0	0	9	High
Alpha Boro-4	Fire House – additional bay in fire house and additional fire/rescue truck	1	1	1	1	1	1	0	0	0	1	1	1	0	0	9	High

Note: Refer to Section 6 which contains the guidance on conducting the prioritization of mitigation actions.

9.3.7 Future Needs To Better Understand Risk/Vulnerability

None at this time.

9.3.8 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the Borough of Alpha 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 Borough of Alpha has significant exposure. These maps are illustrated in the hazard profiles within Section 5.4, Volume I of this Plan.

9.3.9 Additional Comments

None at this time.

Figure 9.2-1. Borough of Alpha Hazard Area Extent and Location Map 1

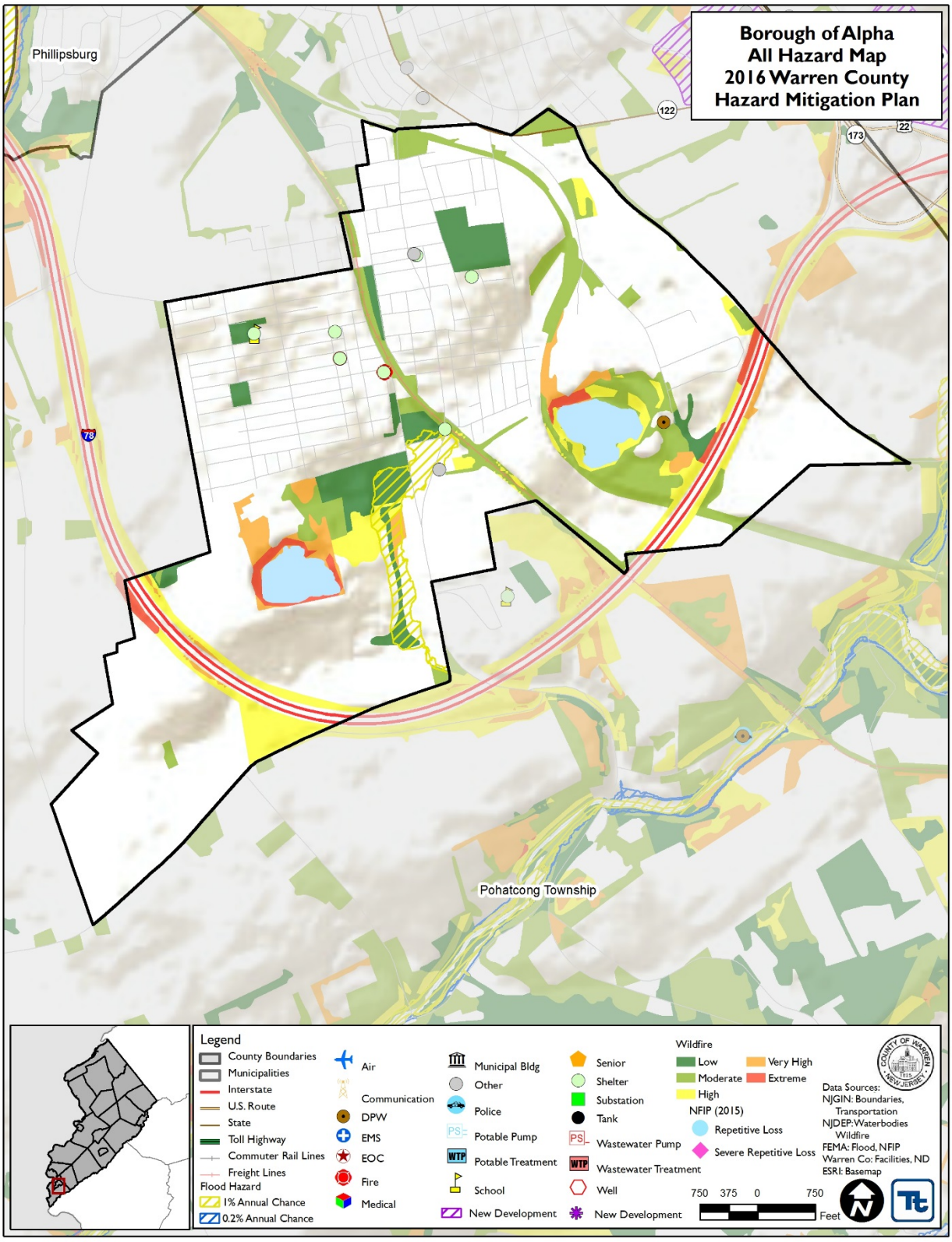
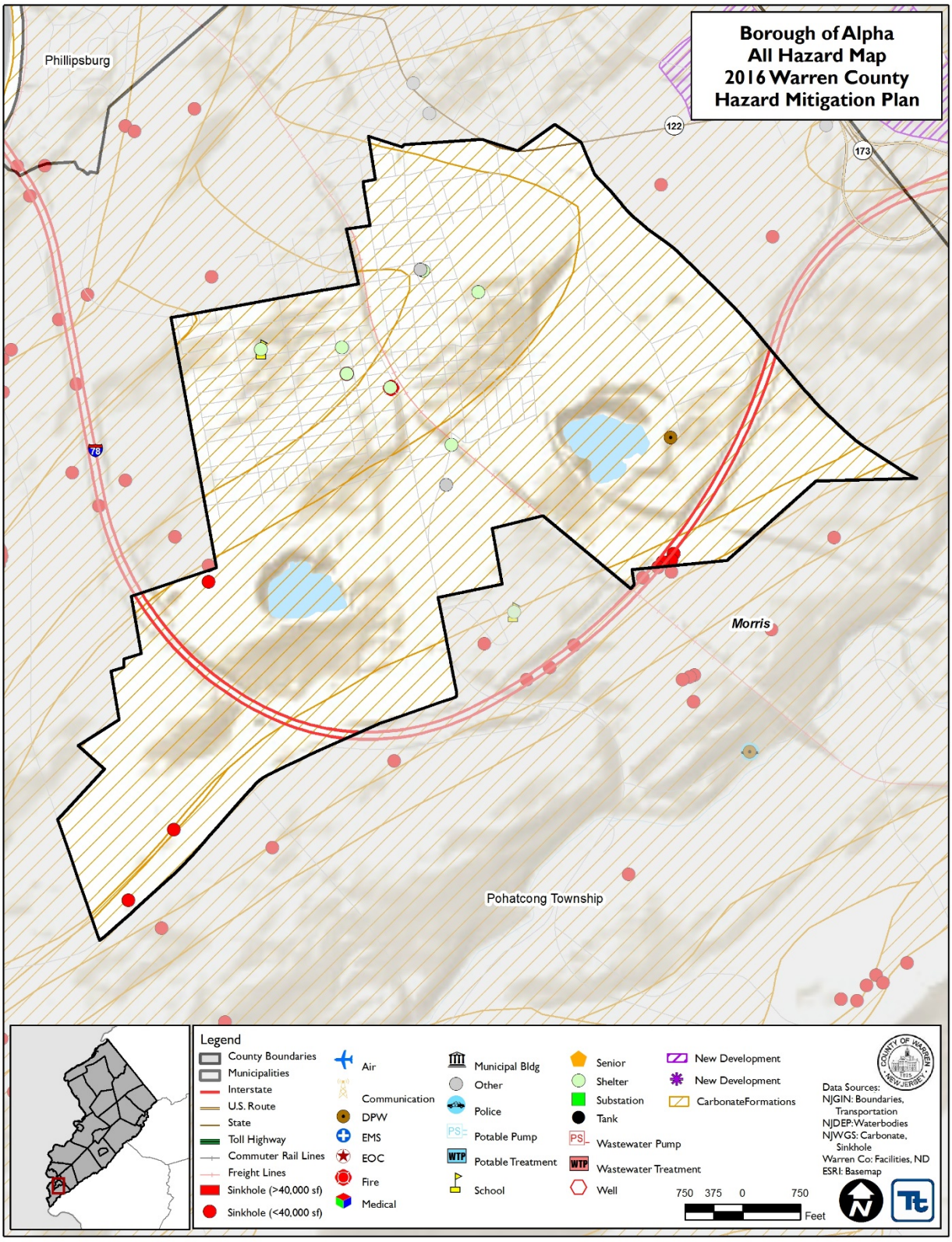


Figure 9.2-2. Borough of Alpha Hazard Area Extent and Location Map 2



Action Number: Alpha - 3

Mitigation Action/Initiative: Support continuity of operations and obtain backup power

Assessing the Risk	
Hazard(s) addressed:	All
Specific problem being mitigated:	
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. Purchase and install generators for several critical facilities in the Borough to allow continuity of operations during power outages
	2. Purchase portable generators to use during power outages – not ideal for long-term power outages
	3. Do nothing – current problem continues
Action/Project Intended for Implementation	
Description of Selected Action/Project	Purchase and install backup generators for the following critical facilities in the Borough: • Fire house – currently in progress • Municipal complex • Alpha Elementary School
Action/Project Category	SIP
Goals/Objectives Met	1, 2, 6
Applies to existing and/or new development; or not applicable	Existing
Benefits (losses avoided)	High
Estimated Cost	Medium
Priority*	High
Plan for Implementation	
Responsible/Lead Agency/Department	Borough OEM
Local Planning Mechanism	
Potential Funding Sources	HMGP with local cost share
Timeline for Completion	Short Term / DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number: Alpha - 3

Mitigation Action/Initiative: Support continuity of operations and obtain backup power

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	
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	1	
Timeline	1	
Local Champion	0	
Other Community Objectives	0	
Total	9	
Priority (High/Med/Low)	**High**	

Action Number: Alpha - 4

Mitigation Action/Initiative: Additional bay in fire house and additional fire/rescue truck

Assessing the Risk	
Hazard(s) addressed:	Hazardous Materials (in transit)
Specific problem being mitigated:	Due to the storing of hazardous materials in some areas of the Borough, there is a need for additional fire/rescue trucks for emergency response.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. Construct another bay in the fire house to increase capacity to hazardous material incidents in the Borough
	2. Do nothing – current problem continues
	3. No other feasible options were identified
Action/Project Intended for Implementation	
Description of Selected Action/Project	Construct another bay in the fire house to increase capacity to hazardous material incidents in the Borough
Action/Project Category	SIP
Goals/Objectives Met	1, 2, 6
Applies to existing and/or new development; or not applicable	New and Existing
Benefits (losses avoided)	High
Estimated Cost	High
Priority*	High
Plan for Implementation	
Responsible/Lead Agency/Department	Borough OEM
Local Planning Mechanism	
Potential Funding Sources	Fire Grants
Timeline for Completion	Short Term / DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number: Alpha - 4

Mitigation Action/Initiative: Additional bay in fire house and additional fire/rescue truck

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	
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	1	
Timeline	1	
Local Champion	0	
Other Community Objectives	0	
Total	9	
Priority (High/Med/Low)	**High**	