



9.15 Borough of Fieldsboro

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

9.15.1 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
David Hansell Mayor mayor.fieldsboro@gmail.com 609-298-6344 or 298-9611 cell: 908-797-8040	Patrice Hansell Clerk clerk@fieldsboro.us 609-298-6344

9.15.2 Municipal Profile

The Borough of Fieldsboro is located in the north-eastern tip of Burlington County. The Borough is naturally bordered by the Delaware River to the north, and surrounded to the east, west and south by the Township of Bordentown. The Borough is comprised of just over one quarter of a square mile, all of which is land. According to the 2010 Census, the community's population was 540.

Fieldsboro is governed under the Borough form of New Jersey municipal government. The government consists of a Mayor and a Borough Council comprising six council members, with all positions elected at large. A Mayor is elected directly by the voters to a four-year term of office. The Borough Council consists of six members elected to serve three-year terms on a staggered basis, with two seats coming up for election each year.

Growth/Development Trends

The Borough of Fieldsboro did not note any recent residential/commercial development since 2013 or any major residential or commercial development, or major infrastructure development planned for the next five years in the municipality.

Table 9.15-1. 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					
None reported					
Known or Anticipated Development in the Next Five (5) Years					
None reported anticipated					

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

9.15.3 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 9.15-2. 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	N/A	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.

Notes:

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

9.15.4 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 Borough of Fieldsboro. 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 Fieldsboro. During the review of the hazard/vulnerability risk ranking, the Borough indicated the following:

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

Table 9.15-3. 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: \$1,090,034	Occasional	12	Low
Drought	Damage estimate not available.	Frequent	30	Medium
Earthquake	100-Year GBS: \$0 500-Year GBS: \$2,175,582 2,500-Year GBS: \$32,445,046	Occasional	28	Medium
Flood*	1% Annual Chance: \$3,405,520	Frequent	18	Medium
Landslide	RCV Exposed to Landslide Hazard Area \$139,371,126	Occasional	36	High
Severe Storm	100-year MRP: \$29,766 500-year MRP: \$321,067	Frequent	48	High



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: \$4,029			
Severe Winter Weather	1% GBS: \$849,826 5% GBS: \$4,249,128	Frequent	51	High
Wildfire	Estimated Value in the Extreme, Very High, and High Hazard Areas: \$0	Occasional	12	Low

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.
- * Flood was changed from a low to a medium risk ranking.

National Flood Insurance Program (NFIP) Summary

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

Table 9.15-4. 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)
Borough of Fieldsboro	0	2	\$707.00	0	0	0

- 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 9.15-6. 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
None identified.					





Source: FEMA 2017, Burlington County

Other Vulnerabilities Identified

The municipality has identified the following vulnerabilities within their community:

- None identified

9.15.5 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 Borough of Fieldsboro.

Table 9.15-7. 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 (2013)	Local	Planning Board	-
Capital Improvements Plan	No	-	-	-
Floodplain Management / Basin Plan	No	-	-	-
Stormwater Management Plan	No	-	-	-
Open Space Plan	No	-	-	-
Stream Corridor Management Plan	No	-	-	-
Watershed Management or Protection Plan	No	-	-	-
Economic Development Plan	No	-	-	-
Comprehensive Emergency Management Plan	Yes (2003)	Local	OEM	-
Emergency Operation Plan	No	-	-	-
Post-Disaster Recovery Plan	No	-	-	-
Transportation Plan	No	-	-	-
Strategic Recovery Planning Report	No	-	-	-
Other Plans:	-	-	-	-
Regulatory Capability				



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.)
Building Code	Yes, 2001	State & Local	Planning Board	Borough Code 61
Zoning Ordinance	Yes	Local	Planning Board	Citation unavailable
Subdivision Ordinance	Yes (2001)	-	Planning Board	Borough Code 91
NFIP Flood Damage Prevention Ordinance	Yes	Federal, State, Local	-	Citation unavailable
NFIP: Cumulative Substantial Damages	No	-	-	-
NFIP: Freeboard	Yes	State, Local	-	-
Growth Management Ordinances	No	-	-	-
Site Plan Review Requirements	Yes	-	Zoning Officer	-
Stormwater Management Ordinance	Yes (2007)	-	Planning Board	Chapter 179
Municipal Separate Storm Sewer System (MS4)	Yes	-	-	-
Stormwater Program Ordinances <ul style="list-style-type: none"> • Pet waste • Litter Control • Improper Disposal of Waste • Wildlife Feeding • Yard Waste Collection • Illicit Connection • Private Storm Drain Retrofitting • Refuse Container / Dumpster (optional) 	-	-	-	-
Natural Hazard Ordinance	No	-	-	-
Post-Disaster Recovery Ordinance	No	-	-	-
Real Estate Disclosure Requirement	Yes	State	-	-
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 Borough of Fieldsboro.

Table 9.15-8. Administrative and Technical Capabilities

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



Resources	Is this in place? (Yes or No)	Department/ Agency/Position
Mitigation Planning Committee	Yes	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Maintenance programs to reduce risk	No	-
Mutual aid agreements	No	-
Technical/Staffing Capability		
Planner(s) or engineer(s) with knowledge of land development and land management practices	Yes	Maser Consulting
Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Yes	Maser Consulting
Planners or engineers with an understanding of natural hazards	Yes	Maser Consulting
NFIP Floodplain Administrator (FPA)	No	-
Surveyor(s)	No	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	-
Scientist familiar with natural hazards	No	-
Emergency Manager	Yes	-
Grant writer(s)	Yes	Maser Consulting
Staff with expertise or training in benefit/cost analysis	Yes	CFO Tom Cardis
Professionals trained in conducting damage assessments	No	-

Fiscal Capability

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

Table 9.15-9. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No)
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	Yes
Impact fees for homebuyers or developers of new development/homes	Yes
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	Yes
Other federal or state Funding Programs	Yes
Open Space Acquisition funding programs	No
Other	No



Community Classifications

The table below summarizes classifications for community program available to the Borough of Fieldsboro.

Table 9.15-10. 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)	No	-	-
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)	No	-	-
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 Borough of Fieldsboro’s capability to work in a hazard-mitigation capacity and/or effectively implement hazard mitigation strategies to reduce hazard vulnerabilities.



Table 9.15-11. 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)

The Borough of Fieldsboro does not participate in the NFIP.

Integration of Hazard Mitigation into Existing and Future Planning Mechanisms

Planning

Hazard Mitigation: The Borough of Fieldsboro actively participated in the 5-year update of the Burlington County Hazard Mitigation Plan. The Borough continues to support the implementation, monitoring, maintenance, and updating of the plan.

Master Plan: The Master Plan for the Borough of Fieldsboro was last updated in February of 2013.

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 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 http://www.nj.gov/dep/dwq/msrp_home.htm. The Borough of Fieldsboro is a Tier B municipality.

Stormwater Management: Chapter 179 of the municipal code discusses stormwater management. The chapter is intended to regulate the feeding of wildlife, disposal of waste, including pet solid waste, yard waste collection, litter, and other waste and pollution that may find its way into stormwater runoff in order to improve, preserve and protect the water quality of waters and streams within the Borough and surrounding communities that may be downstream from the Borough so as to protect the health safety and welfare of the public. This chapter also regulates connections to the municipal separate storm sewer system (MS4) operated by the Borough and establishes penalties for violations of the provisions of this chapter.



Operational and Administration

Mutual Aid Agreements: The Borough maintains mutual aid agreements with neighboring communities for continuity of operations.

Vegetation Management: The Borough's DPW maintains a tree maintenance and clearing program along roadways in high hazard areas.

Funding

The Borough has identified various financial resources that are available including Community Development Block Grants, Capital Improvements Project Funding, authority to levy taxes for specific purposes, user fees, impact fees for homebuyers or developers, incurring debt through general obligation, withholding public expenditures in hazard-prone areas, and state mitigation grant programs.

Education and Outreach

Burlington County utilizes the Swift911 Emergency Notification system. Swift911 is used in order to keep residents informed during fires, outages, floods, hurricanes, evacuations, road closures and more. All notifications are delivered for the sole purpose of delivering emergency messages and public notifications that are time sensitive in order to increase the safety and security. This service is also extended to the 40 municipalities within Burlington County, including the Borough of Fieldsboro.

9.15.6 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 9.15-12. 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.
FB-1	Research, evaluate and consider participating in NFIP and contact NJ DEP for information/meeting	Twp. Committee, Planning, OEM, Code Enforcement, NJDEP	No Progress	1. 0% 2. Not in flood zone 3.	1. Discontinue 2. 3. Not in flood zone
FB-2	Conduct and facilitate community and public education and outreach for residents and businesses to promote natural hazard risk reduction to include: • Disaster preparedness • Hazard mitigation	Municipality with support from Planning Partners, County Planning, NJOEM, FEMA	No Progress	1. 0% 2. Staff time 3.	1. Include in 2019 HMP 2. 3.
FB-3	Improve municipal communication systems to include information sharing with county and surrounding municipalities	OEM with support from County, NJOEM and FEMA	No Progress	1. 0% 2. Staff time 3.	1. Include in 2019 HMP 2. 3.
FB-4	Obtain and install backup power source at the municipal building at 204 Washington Street	Municipality engineering, OEM with support from County, NJOEM and FEMA	In Progress	1. Waiting for funding to become available 2. 3.	1. Include in 2019 HMP 2. 3.
FB-5	Create/Enhance/Maintain Mutual Aid agreements with neighboring communities for continuity of operations	Municipal Government, OEM with support from County, NJOEM, FEMA and	In Progress	1. Continue to consider shared service plans 2. 3.	1. Discontinue 2. 3. Ongoing capability



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.
		surrounding communities			
FB-6	Continue to support the implementation, monitoring, maintenance, and updating of this Plan through participating in the 5 year Plan Update	Municipal Government, OEM with support from Planning Partners, County Planning, NJOEM, FEMA	In Progress	1. Actively participate in updates 2. 3.	1. Discontinue 2. 3. Ongoing Capability
FB-7	Continue to promote the participation of Floodplain Administrator within the planning process and other related activities	Municipal Government with support from County, NJOEM and FEMA	No Progress	1. 0% 2. Not in flood prone area 3.	1. Discontinue 2. 3. Not in a flood prone area
FB-8	Enhance resilience to severe storms by joining the NOAA "Storm Ready" program.	OEM with support from County, NJOEM and FEMA	No Progress	1. 0% 2. Information already available 3.	1. Discontinue 2. 3. Information is readily available
FB-9	Provide public education and outreach on proper installation and/or use of backup power	Municipal Clerk, OEM and government	No Progress	1. 0% 2. Not required 3.	1. Discontinue 2. 3. Not required
FB-10	Address dangerous trees threatening people and property through proactive tree-trimming (vegetation management) programs in conjunction with property owners and utility companies	Municipal DPW	In Progress	1. In progress 2. 3.	1. Discontinue 2. Continue to identify dangerous trees and remove or trim them 3. Ongoing capability



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.
FB-11	Consider acquisition, elevation, or relocation of flood prone structures.	Municipality engineering, OEM with support from County, NJOEM and FEMA	No Progress	1. 0% 2. No flood prone structures 3.	1. Discontinue 2. 3. No flood prone structures



Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy

The Borough of Fieldsboro 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

Proposed Hazard Mitigation Initiatives for the Plan Update

The Borough of Fieldsboro 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 9.15-13 summarizes the comprehensive-range of specific mitigation initiatives the Borough of Fieldsboro 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 9.15-14 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.



Table 9.15-13. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
FB-1 (former FB-2)	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 preparedness Hazard mitigation 	All Hazards	1, 2, 5	Municipality with support from Planning Partners, County Planning, NJOEM, FEMA	Medium	Medium	Municipal Budget, HMA programs with local or county match	Short Term	High	EAP	PI
FB-2 (former FB-3)	Improve municipal communication systems to include information sharing with county and surrounding municipalities	All Hazards	1, 2, 6	OEM with support from County, NJOEM and FEMA	Medium	Medium	Municipal Budget	Short Term	Medium	SIP LPR	ES PR
FB-3 (former FB-4)	Obtain and install backup power source at the municipal building at 204 Washington Street	All Hazards	1, 2, 6	Municipality engineering, OEM with support from County, NJOEM and FEMA	Medium	Medium	Municipal Budget	Short Term	Medium	SIP	ES
FB-4	Survey shoreline along Delaware River for potential erosional hotspots and conduct feasibility assessment to repair damages	Coastal Erosion	2, 3, 6	Municipality with support from NJ Transit	Medium	Medium	Municipal Budget	Long Term	Medium	SIP	PP
FB-5	Conduct feasibility assessment for flooding from tributary on northeast border of Borough.	Flood	2, 3, 6	Municipality	Medium	Medium	Municipal Budget	Long Term	Medium	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

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





NFIP National Flood Insurance Program
OEM Office of Emergency Management

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 9.15-14. 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
FB-1 (former FB-2)	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 preparedness Hazard mitigation 	1	1	1	1	1	1	1	1	1	-1	1	1	0	1	11	High
FB-2 (former FB-3)	Improve municipal communication systems to include information sharing with county and surrounding municipalities	1	1	0	0	1	1	0	0	1	1	1	1	0	1	9	Medium
FB-3 (former FB-4)	Obtain and install backup power source at the municipal building at 204 Washington Street	1	0	1	1	1	1	1	0	1	-1	1	1	1	0	9	Medium
FB-4	Survey shoreline along Delaware River for potential erosional hotspots and conduct feasibility assessment to repair damages	0	1	0	0	1	0	1	1	1	1	0	0	1	0	7	Medium
FB-5	Conduct feasibility assessment for flooding from tributary on northeast border of Borough.	1	1	0	0	1	1	1	1	1	1	0	0	1	0	9	Medium

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





9.15.7 Future Needs To Better Understand Risk/Vulnerability

None at this time.

9.15.8 Hazard Area Extent and Location

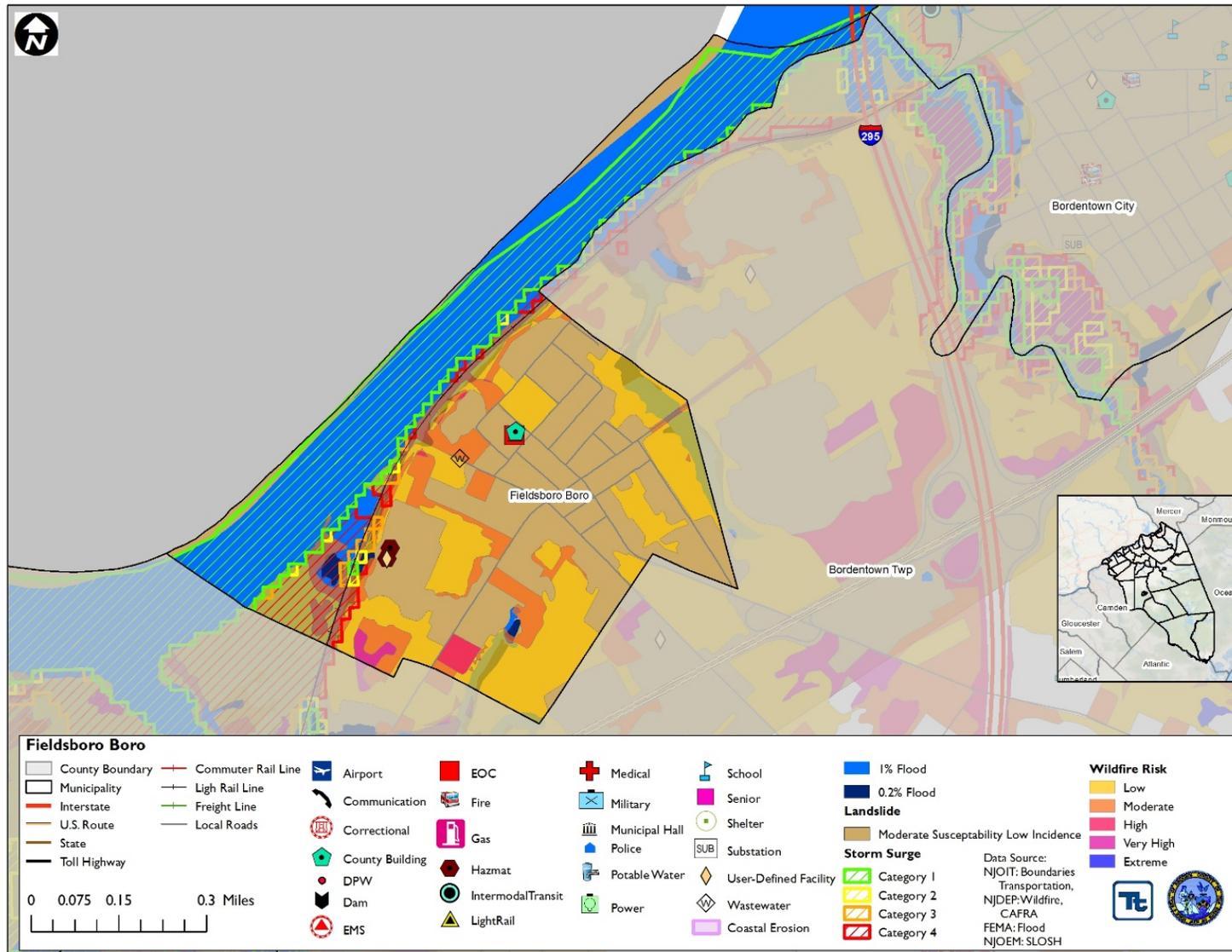
Hazard area extent and location maps have been generated for the Borough of Fieldsboro that illustrate the probable areas impacted within the municipality. These maps are based on the best available data at the time of the preparation of this plan and are considered to be adequate for planning purposes. Maps have only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which the Borough of Fieldsboro has significant exposure. These maps are illustrated in the hazard profiles within Section 5.4, Volume I of this Plan.

9.15.9 Additional Comments

None at this time.



Figure 9.15-1. Borough of Fieldsboro Hazard Area Extent and Location Map 1





Action Number:

FB-3 (Former FB-4)

Mitigation Action Name:

Obtain and install backup power sources at the municipal building at 204 Washington Street

Assessing the Risk	
Hazard(s) addressed:	All
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	Municipality engineering, OEM with support from County, NJOEM and FEMA
Local Planning Mechanism	Hazard mitigation, emergency management
Potential Funding Sources	Municipal Budget
Timeline for Completion	Short Term
Reporting on Progress	
Date of Status Report/ Report of Progress	



Action Number:

FB-3 (Former FB-4)

Mitigation Action Name:

Obtain and install backup power sources at the municipal building at 204 Washington Street

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Continuity of operations for residents during power outages
Property Protection	0	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	1	Municipal budget
Environmental	0	
Social	1	
Administrative	-1	
Multi-Hazard	1	All hazards
Timeline	1	
Agency Champion	1	
Other Community Objectives	0	
Total	9	
Priority (H/M/L)	Medium	



Action Number:

FB-4

Mitigation Action Name:

Survey shoreline along Delaware River for potential erosional hotspots and conduct feasibility assessment to repair damages

Assessing the Risk	
Hazard(s) addressed:	Coastal Erosion
Specific problem being mitigated:	Potential coastal erosion along Delaware River
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Install bulkheading – costly, may not be needed Move railroad back from river – very costly, may not be possible
Action/Project Intended for Implementation	
Description of Selected Action/Project	The Township will work with NJ Transit to determine is any areas along the Delaware River are experiencing erosion. If areas are identified, a feasibility assessment will be conducted to determine the appropriate actions that should be taken.
Mitigation Action Type	SIP
Goals Met	2, 3, 6
Critical Facility (Y/N)	No
Benefits (losses avoided)	Medium
Estimated Cost	Medium
Priority*	Medium
Plan for Implementation	
Responsible Organization	Municipality with support from NJ Transit
Local Planning Mechanism	Hazard mitigation
Potential Funding Sources	Municipal Budget
Timeline for Completion	Long Term
Reporting on Progress	
Date of Status Report/ Report of Progress	



Action Number:

FB-4

Mitigation Action Name:

Survey shoreline along Delaware River for potential erosional hotspots and conduct feasibility assessment to repair damages

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	Project will aim to protect shoreline from erosion
Cost-Effectiveness	0	
Technical	0	
Political	1	
Legal	0	Not all land owned by Township
Fiscal	1	Municipal budget
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	0	Coastal Erosion
Timeline	0	Long Term
Agency Champion	1	
Other Community Objectives	0	
Total	7	
Priority (H/M/L)	Medium	



Action Number:

FB-5

Mitigation Action Name:

Conduct feasibility assessment for flooding from tributary on northeast border of Borough.

Assessing the Risk	
Hazard(s) addressed:	Flood
Specific problem being mitigated:	There is a potential flooding along tributary at northeast border of Borough but the likelihood and sources of flooding are not well studied.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Install bulkheading/flood wall along tributary – costly, may not be needed Buyout properties along tributary – very costly, may not be possible/necessary
Action/Project Intended for Implementation	
Description of Selected Action/Project	The Borough will conduct a flood study to identify potential flood risk along the tributary. The Borough will the conduct a feasibility assessment to determine potential actions to address any problem areas. The Borough will then implement any selected actions.
Mitigation Action Type	SIP
Goals Met	2, 3, 6
Critical Facility (Y/N)	No
Benefits (losses avoided)	Medium
Estimated Cost	Medium
Priority*	Medium
Plan for Implementation	
Responsible Organization	Municipality
Local Planning Mechanism	Hazard mitigation
Potential Funding Sources	Municipal Budget
Timeline for Completion	Long Term
Reporting on Progress	
Date of Status Report/ Report of Progress	



Action Number:

FB-4

Mitigation Action Name:

Conduct feasibility assessment for flooding from tributary on northeast border of Borough.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will aim to identify flood sources and problem areas and address them.
Property Protection	1	Project will aim to identify flood sources and problem areas and address them.
Cost-Effectiveness	0	
Technical	0	
Political	1	
Legal	1	The Borough has the legal authority to complete the project
Fiscal	1	Municipal budget
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	0	Flood
Timeline	0	Long Term
Agency Champion	1	
Other Community Objectives	0	
Total	9	
Priority (H/M/L)	Medium	