The Village Of Brooklyn Annex

Community Profile

The Village of Brooklyn is located in the southeast quadrant of the County, north of Rock County, east of the Town of Oregon, and south of the Town of Rutland. Land use is dominated by agriculture and woodlands, and dispersed one - and two-family homes. According to the United States Census Bureau, the Village of Brooklyn has a total area of 1.09 square miles, all of it land. Brooklyn straddles the border of Dane County. This plan applies only to the Dane County areas of the Village.

As of the 2010 Census, there were 1,401 people, 324 households, and 260 families residing in the Village of Brooklyn. The population density is 1713.7 per square mile. There are 336 housing units at an average density of 615.2 per square mile. The municipality population data distributed by the Wisconsin Department of Administration indicates that the 2015 population for Village of Brooklyn is 953 people. Table 1 shows the population profile by age for the Village of Brooklyn according to the 2010 Census.

Table 1 Population Profile for Village of Brooklyn

Subject	Number	Percent
Total population	1,401	100.0
Under 5 years	123	8.8
5 to 9 years	124	8.9
10 to 14 years	119	8.5
15 to 19 years	80	5.7
20 to 24 years	61	4.4
25 to 29 years	116	8.3
30 to 34 years	135	9.6
35 to 39 years	120	8.6
40 to 44 years	117	8.4
45 to 49 years	105	7.5
50 to 54 years	82	5.9
55 to 59 years	103	7.4
60 to 64 years	37	2.6
65 to 69 years	28	2.0
70 to 74 years	18	1.3
75 to 79 years	12	0.9
80 to 84 years	9	0.6
85 years and over	12	0.9

American Community Survey estimates for 2014 indicate that the median income for a household in the Village of Brooklyn is $80,804 and the median income for a family is $83,803. The per capita income for

the Village is $27,286 96.2% of the population has at least a high school degree, while 26.1% of the population holds at least a bachelor's level degree.

Hazard Identification and Risk Assessment

The first step in a hazard analysis is to identify to which hazards the community is vulnerable. Table 2 outlines the hazard identification for the Village of Brooklyn based on the Data Collection Guide. The Data Collection Guide listed all of the hazards that could impact anywhere in Dane County. The purpose of this worksheet was to identify and rank the hazards and vulnerabilities specific to the jurisdiction. The Village of Brooklyn's planning team members were asked to complete the matrix by ranking each category on a scale of 0 to 5 based on the experience and perspective of each planning team member. A ranking of 0 indicated "no concern" while a ranking of 5 indicated "highest concern". This matrix appears as Table 2. This matrix reflects the significance of the hazards relative to one another.

This matrix reflects that the Village of Brooklyn is most vulnerable to tornado, wildfire, and flooding. The vulnerability established here is a qualitative assumption based on the impacts, geographic extent, probability of future occurrence, and magnitude/severity.

Table 2 Vulnerability Assessment Matrix for the Village of Brooklyn

Hazard	Hazard Attributes			Impact Attributes						Total
				Primary Impact (Short Term - Life and Property)			Secondary Impact (Long Term – Community Impacts)			
	Area of Impact	Past History, Probability of Future Occurrence	Short Term Time Factors	Impact on General Structures	Impact on Critical Facilities	Impact on At-Risk Populations	Social Impact	Economic Impact	Severity Of Other Associated Secondary Hazards	
	(1-5)	(1-5)	(1-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	
Dam Failure	1	1	1	1	1	1	0	1	1	8
Extreme Cold	1	1	1	1	1	1	1	1	1	9
Extreme Heat	1	1	1	1	1	1	1	1	1	9
Drought	1	1	1	1	1	1	1	1	1	9
Expansive soils	1	1	1	1	1	1	1	1	1	9
Flood	2	2	2	1	1	2	2	2	2	16
Fog	1	1	1	1	1	1	1	1	1	9
Hail Storm	1	1	1	2	2	2	2	2	2	15
Landslide	1	1	1	0	0	0	0	0	0	3
Lightning	1	1	1	1	1	1	1	1	1	9
Tornado	2	2	1	1	2	2	2	2	2	16
Wildfire	2	2	1	1	2	2	2	2	2	16
Windstorm	1	1	1	1	2	2	2	2	2	14
Winter Storm	1	1	1	2	2	2	2	2	2	15

Data Source: Village of Brooklyn Data Collection Guide

Previous Hazard Events

Through the Data Collection Guide, the Village of Brooklyn noted specific historic hazard events to include in the community profile. These events have been incorporated into the appropriate hazard chapters in the base plan. These events had a particular impact on the community beyond the impacts and events recorded in the Dane County Hazard Mitigation Plan. This is not a comprehensive summary of past incidents, as the hazard profiles collected in the main Mitigation Plan include other events that may have historically impacted the jurisdiction. The events noted by this jurisdiction in the Data Collection Guide include:

Flood: June 7-8 & 12, 2008 & Tornado-2000

Extensive flood waters in the Village of Brooklyn caused damage to several homes. The event occurred in the entire village. There were no deaths or injuries reported, but there was an unknown amount of damage. Exact numbers were not available. The Village of Brooklyn planning members felt such an event has the potential to occur again.

Flood: June-July, 2013

Flooding caused groundwater to damage sewer mains allowing groundwater to enter the sanitary sewer system. This caused excessive flow around Bowman Street, West Main Street, and the wastewater treatment plant. Infrastructure was damaged as a result.

Extreme Cold: December 2013-March 2014

Excessively cold temperatures occurred for extended periods of time in the 2013/14 winter. Property and infrastructure damage occurred, most likely as the result of frozen pipes and damaged heating systems. The Village of Brooklyn estimates that there was an economic impact because of this cold spell.

Asset Inventory

Assets include the people, property, and critical facilities within the Village of Brooklyn that are exposed to hazards in general. Inventories of property, essential infrastructure, and natural, cultural or historic resources help provide a comprehensive picture of the community and provide a method of assessing exposure to hazards by establishing the improved and total values, capacities and populations for these assets. It also forms the basis for estimating potential losses, where possible.

Population

Table 3 Vulnerable Population Summary

Disability Status from the 2014 American Community Survey	Number	Percent with Disability
Population Under 5 years old with a Disability	0	0%
Population 5-17 years old with a Disability	6	3.4
Population 18-64 with a Disability	13	2.4
Population Over 65 years old with a Disability	8	22.2
Total Population with Disability	27	3.2

Other Vulnerable Populations	Estimate	Percentage
Families Below Poverty Level	0	0
Individuals Below Poverty Level	3	0.4
Of those poverty: Individuals Under 18	0	0
Of those poverty: Individuals Over 65	3	8.3
Total Population Over 5 who Speak English less than "very well"	0	0
2014 ACS Total Population Estimate	837	100%

Data Source: 2014 American Community Survey

General Property

Table 4 Property Exposure Summary

Property Type	Total Parcel Count	Improved Parcel Count	Improved Values ($)	Content ($)	Total Value ($)
Totals	**360**	**289**	**38,389,600**	**19,194,800**	**57,584,400**
Agriculture	4	0	0	0	0
Commercial	7	5	1,334,000	667,000	2,001,000
Utilities	5	0	0	0	0
Industrial	2	2	780,600	390,300	1,170,900
Institutional/ Governmental	3	0	0	0	0
Other	61	6	1,067,500	533,750	1,601,250
Residential	278	276	35,207,500	17,603,750	52,811,250

Data Source: Dane County Land Information Office

Critical Facilities

The Village of Brooklyn has identified the following critical facilities important to protect from disaster impacts. These are collected in Table 5.

Table 5 Critical Facility Summary/Essential Infrastructure

Name of Asset	Type*	Replacement value	Occupancy/ capacity	Hazard Specific issues
Brooklyn Elementary School	VF	5,000,000		School
Brooklyn Township	E1	1,000,000		
Fire/EMS Station	E1	5,000,000		
Gensis (retirement Home)	E1	360,000		
Public Works Facility	E1	1,000,000		
Community Building/ Police department	E1	2,000,000		
Wastewater Treatment Plant	E1	3,900,000		

Name of Asset	Type*	Replacement value	Occupancy/ capacity	Hazard Specific issues
Water Tower	E1	515,000		
Well #1 Building	E1	150,000		Chemicals
Well #2 Building	E1	200,000		Chemicals

Data Source: Village of Brooklyn

*EI: Essential Infrastructure; VF: Vulnerable Facilities; HM: Hazardous Materials Facilities;

Other Assets

The Village of Brooklyn has not identified any other assets.

Vulnerability to Specific Hazards

This section details vulnerability to specific hazards, where quantifiable, and where it differs from that of the overall County. The previous inventory tables quantify what is exposed to the various hazards within the Village of Brooklyn. Table 6 cross-references the hazards with the various tables where exposure or vulnerability specifics are found. The intent of Table 5 is to quantify, where possible, future impacts of each hazard on the jurisdiction. In many cases it is difficult to estimate potential losses, so the overall exposure of populations, structures, and critical facilities is referenced.

Table 6 Hazard Vulnerability Specifics

Hazard	Populations	Structures	Critical Facilities	Future Damage Potential
Dam Failure	None	None	None	Specifics unknown; See hazard profile in County Plan
Drought	Minimal	None	Minimal	Specifics unknown; See hazard profile in County Plan
Flooding	See section below	See section below	See section below	See section below
Fog	Minimal	None	None	Specifics unknown; See hazard profile in County Plan
Hailstorm	Minimal	See Property Exposure table 3	See Critical Facility Inventory Table(s)	Specifics unknown; See hazard profile in County Plan
Landslide/ Sinkholes/ Erosion	Minimal	Minimal	Minimal	Specifics unknown; See hazard profile in County Plan
Lightning	See Table 2 Population	See Table 3 Property Exposure	See Critical Facility Inventory Table(s)	Specifics unknown; See hazard profile in County Plan
Severe Cold	See Table 2 Population	See Table 3 Property Exposure	See Critical Facility Inventory Table(s)	Specifics unknown; See hazard profile in County Plan
Severe Heat	See Table 2 Population	None	Minimal	Specifics unknown; See hazard profile in County Plan
Severe Winter Storm	See Table 2 Population	See Table 3 Property Exposure	See Critical Facility Inventory Table(s)	Specifics unknown; See hazard profile in County Plan

Hazard	Populations	Structures	Critical Facilities	Future Damage Potential
Tornado	See Table 2 Population	See section below	See Critical Facility Inventory Table(s)	See section below
Wildfire	Minimal	Minimal	Minimal	Specifics unknown; See hazard profile in County Plan
Windstorm	See Table 2 Population	See Table 3 Property Exposure	See Critical Facility Inventory Table(s)	Specifics unknown; See hazard profile in County Plan

Flood

Structures and Properties in the Floodplain

Refer to the flood profile in the mitigation plan for a description of the methodology used to identify potentially flood-prone properties. Figure 1 shows mapped floodplains, future growth areas, and critical or vulnerable facilities. Tables 7 and 8 outline the primary structures and properties with primary structures on them within the Village of Brooklyn. Potential number of individuals at risk figures are based on primary residential structures and the average household size within Dane County.

Table 7 Primary Structures in the Floodplain

Total Floodway Structures	Floodway Residential Structures	Total Structures in 100 year Floodplain	Residential Structures in 100 year Floodplain	Potential Number of Individuals at Risk in 100 year Flood	Total Structures in 500 year Floodplain	Residential Structures in 500 year Floodplain	Potential Number of Individuals at Risk in 500 year Flood
0	0	0	0	0	0	0	0

Source: Analysis based on Dane County Land Information Office Data

Table 8 Properties with Primary Structures in the Floodplain

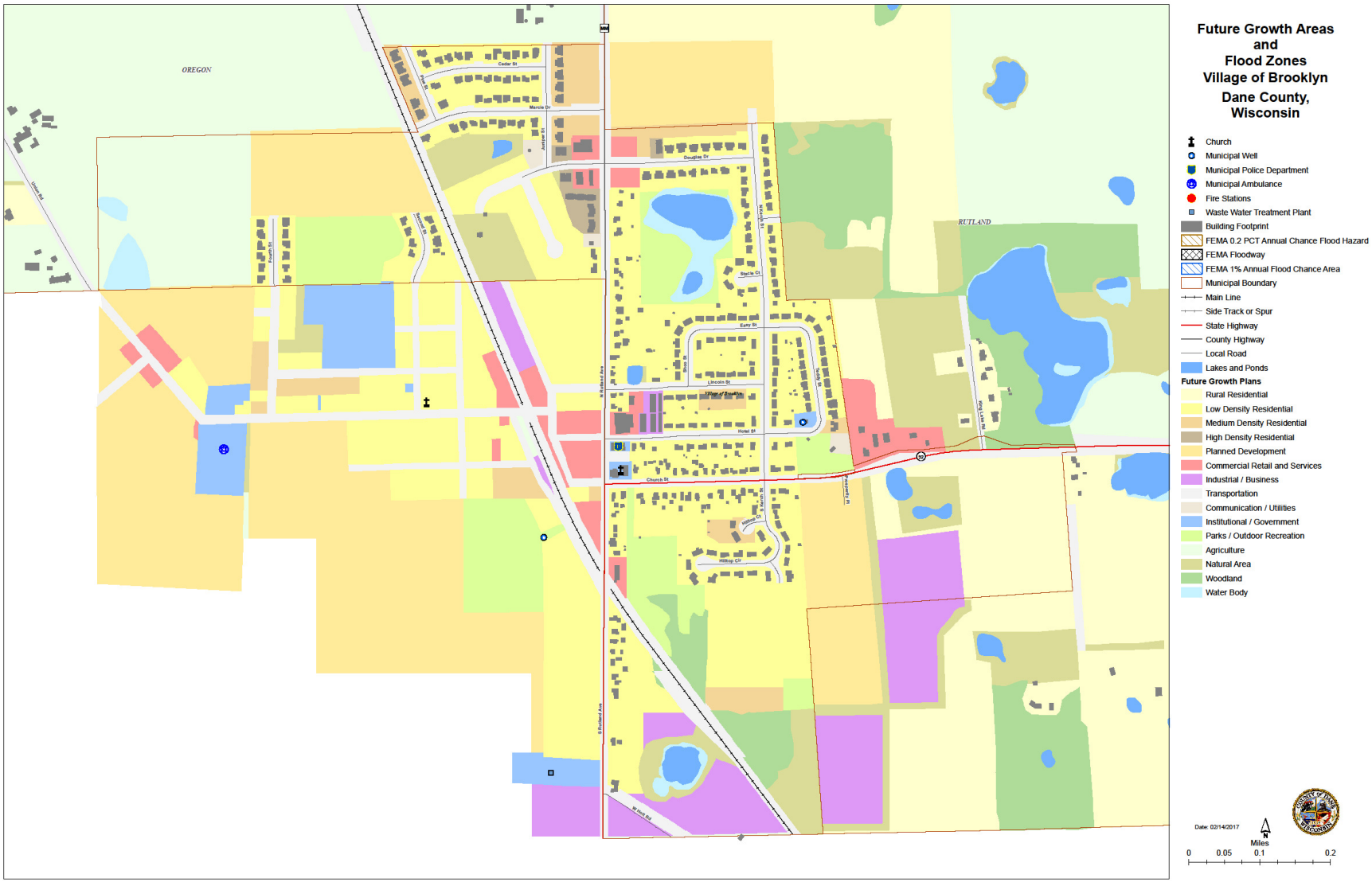
Total Floodway Properties	Floodway Improved Values	Floodway Residential Properties	Total Properties in 100 year Floodplain	Total Improved Value of Properties in 100 year Floodplain	Residential Properties in 100 year Floodplain	Total Properties in 500 year Floodplain	Total Improved Value of Properties in 500 year Floodplain	Residential Properties in 500 year Floodplain
0	$0	0	0	$0	0	0	$0	0

Source: Analysis based on Dane County Land Information Office Data

Repetitive Loss Properties and Flood Insurance Polices

No repetitive losses have been reported by FEMA. According to FEMA Policy and Claim Statistics for Flood Insurance, the community has 1 flood insurance policy, with a total coverage amount of $350,000. There has been 1 claim which was closed without payment.

Figure 1 Flood Hazards and Future Land Use Map



Tornado

While it is difficult to estimate specific losses to a tornado due to the random nature of the event, a methodology was developed that was applied to each jurisdiction during the 2015 update. The table below estimates the percent area of the jurisdiction that could be impacted based on the average sized tornado (F2) in Dane County. High value exposure is based on 100% loss, medium 50% loss, and low is 25% loss to the property potentially impacted. The loss ratio, which is the ratio of the damaged building value to total exposed building value, is a measure of the impact to the jurisdiction as a whole. Communities with loss ratios 10% or more may have difficulty recovering from a disaster. Refer to the tornado hazard profile in the main mitigation plan for more details on this methodology.

Table 9 Tornado Loss Estimate

% Area of Impact	Improved Parcel Count	Affected Structure Estimate	Total Exposed Value	Estimated Loss $ - High Damage Range	Estimated Loss $ -Moderate Damage Range	Estimated Loss $ - Low Damage Range	Loss Ratio for Moderate Damage Range
100.00%	365	365	$74,747,250	$74,747,250	$37,373,625.00	$18,686,812.50	50.0%

Data Source: Analysis Based on Dane County Land Information Office's data

Growth and Development Trends

Planned land use is shown in Figure 1, in relation to the flood hazard. Table 10 illustrates how the Village of Brooklyn has grown in terms of population and number of housing units between 2010 and 2014-15. Housing data is to 2014 due to data availability. Table 11, drawn from the Demographics Services Center at the Wisconsin Department of Administration, shows population projections through 2035.

Table 10 Village of Brooklyn Change in Population and Housing Units, 2010-2014/15

2010 Population	2015 Population	Percent Change (%) 2010-2015	2010 # of Housing Units	2014 # of Housing Units	Percent Change (%) 2010-2014
936	953	1.82%	336	311	-7.4%

Data Source: Dane County and Wisconsin Department of Administration

Table 11 Village of Brooklyn Population Projections: 2010-2035

Population Change	5 year Growth %	2015	2020	2025	2030	2035
Increase by same percentage each year	0.36%	953	970	988	1,005	1,024

Data Source: Dane County and Wisconsin Department of Administration

Capability Assessment

Capabilities are the programs and policies currently in use to reduce hazard impacts or that could be used to implement hazard mitigation activities. This capabilities assessment summarizes regulatory mitigation capabilities, administrative and technical mitigation capabilities, and fiscal mitigation capabilities for the Village of Brooklyn.

Mitigation Capabilities Summary

Table 12 lists planning and land management tools typically used by local jurisdictions to implement hazard mitigation activities, or by themselves contribute to reducing hazard losses. The table also indicates which of these tools are currently utilized in the Village of Brooklyn.

Table 12 Village of Brooklyn Regulatory Mitigation Capabilities

Regulatory Tool (ordinances, codes, plans)	Yes/No
General or Comprehensive plan	Yes
Zoning ordinance	Yes
Subdivision ordinance	Yes
Growth management ordinance	Yes
Floodplain ordinance	Yes
Other special purpose ordinance (stormwater, steep slope, wildfire)	Yes
Building code	Yes
Fire department ISO rating	Yes
Erosion or sediment control program	Yes
Stormwater management program	Yes
Site plan review requirements	Yes
Capital improvements plan	Yes
Economic development plan	Yes
Local emergency operations plan	Yes
Other special plans	No
Flood insurance study or other engineering study for streams	No
Elevation certificates (for floodplain development)	Yes

Data Source: Village of Brooklyn Data Collection Guide

Table 13 identifies the personnel responsible for mitigation and loss prevention activities as well as related data and systems in the Village of Brooklyn.

Table 13 Responsible Personnel and Departments for the Village of Brooklyn

Personnel Resources	Yes/No	Department/Position
Planner/engineer with knowledge of land development/land management practices	Yes	General Engineering
Engineer/professional trained in construction practices related to buildings and/or infrastructure	Yes	Strand & Associates Engineers
Planner/engineer/scientist with an understanding of natural hazards	Yes	
Personnel skilled in GIS	Yes	Public works
Full time building official	No	
Floodplain manager	No	
Emergency manager	Yes	
Grant writer	No	
Other personnel	No	
GIS Data Resources (Hazard areas, critical facilities, land use, building footprints, etc.)	No	
Warning Systems/Services (Reverse 9-11, cable override, outdoor warning signals)	Yes	Outdoor warning signal
Other	No	

Data Source: Village of Brooklyn Data Collection Guide

Table 14 identifies financial tools or resources that the Village of Brooklyn could potentially use to help fund mitigation activities.

Table 14 Financial Resources for the Village of Brooklyn

Financial Resources	Accessible/Eligible to Use (Yes/No)
Community Development Block Grants	Yes
Capital improvements project funding	Yes
Authority to levy taxes for specific purposes	Yes

Fees for water, stormwater, sewer, gas, or electric services	Yes
Impact fees for new development	Yes
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activities	No
Withhold spending in hazard prone areas	No
Other	No

Data Source: Village of Brooklyn Data Collection Guide

Additional Capabilities

The Village provided the following additional capabilities in its data collection guide:

- Family emergency plan pamphlet
- Emergency siren pamphlet
- Smoke detector program
- Weather radio program
- NIXLE program

National Flood Insurance Program Participation

The Village of Brooklyn participates in the National Flood Insurance Program. Its initial FIRM was identified on June 17, 2003 and it has no special flood hazard areas.

Public Involvement Activities

The Village of Brooklyn community participated in the County public outreach process. This was a series of public workshops held around the County in which an overview of natural hazard mitigation was given and the County plan was discussed. Residents were then given the opportunity to give their input on mitigation actions that could be taken, and filled out informational surveys that assessed the level of risk the perceived within their own community. More information on these meetings can be found in the County base plan.

Mitigation Objectives (Actions)

To reduce the loss of life or property to natural hazards, the Village of Brooklyn is proposing the following mitigation actions, several of which are continuations from the Village's 2010 Natural Hazard Mitigation Plan (annex to the County plan). Continued proposals have updates on the project provided.

Objective #1: Brooklyn Emergency Response Plan

Steps:

1) Train Board members, all Village employees, and a contingency of volunteers to assist public safety and public works in the event of a major incident.

Lead Implementing Agency: Village of Brooklyn

Supporting Agencies:

- Brooklyn Police Department
- Public Works
- Brooklyn Fire Department
- Village Board
- Dane County Emergency Management
- Green County Emergency Managment

Possible Funding and Technical Assistance:

- Possible donations
- Dane County Emergency Management
- Wisconsin Emergency Management

Timeline: Ongoing

Priority: Medium

Estimated Costs: Unknown

Update: This project is ongoing as the Village continuously trains new staff and volunteers in emergency response.

Objective #2: Minimize the threat to properties from storm water and flooding.

Steps:

1) Purchase 6" self-priming dewatering pump, hose, and ramps

Lead Implementing Agency: Public Works

Supporting Agencies: Village Board

Possible Funding and Technical Assistance:

- Budgets
- Possible Grant

Timeline: Ongoing

Priority: Medium

Estimated Costs: $40,000

2017 Update: This project is ongoing. The Village is currently working on its CMOM Plan to identify problem sanitary sewer areas were flooding may affect flows.

Objective #3: Continue to implement sound floodplain management practices through continued compliance with the National Flood Insurance Program, to include floodplain ordinance enforcement and periodic review, promoting the benefits of flood insurance, and continued staff training and development in floodplain management.

Steps:

1) Evaluate through the existing staff, County planning staff, and additional DNR staff if necessary, the regulatory deficiencies and enforcement shortcomings in flood-related ordinances and programs (see related County objective);
2) Periodically update ordinances as necessary
3) Ensure that stop work orders and other means of compliance are being used as authorized by each ordinance;
4) Suggest changes to improve enforcement of and compliance with regulations and programs;
5) Encourage floodplain management staff to become Certified Floodplain Managers (CFM) or maintain their CFM status.
6) Participate in Flood Insurance Rate Map updates by adopting new maps or amendments to maps
7) Utilize recently completed Digital Flood Insurance Rate maps in conjunction with GIS to improve floodplain management, such as improved risk assessment and tracking of floodplain permits.
8) Promote and disperse information on the benefits of flood insurance, with assistance from partners such as the County, WDNR, or ASFPM.
9) Evaluate the potential costs and benefits of becoming a participant in the Community Rating System

Lead Implementing Agency: Village of Brooklyn

Supporting Agencies:

- Dane County Planning and Development
- Lakes and Watershed Commission
- Land Conservation Department
- Association of State Floodplain Managers
- Wisconsin Department of Natural Resources

Possible Funding and Technical Assistance:

- Staff Time

Timeline: On going

Priority: High

Estimated Costs: Low; can be accomplished with existing staff and within existing department budget.

Objective 4: Support Dane County efforts to mitigate natural hazards at the local level through continued collaboration with County projects in the Village of Brooklyn area. The village will continue to lower its vulnerability to natural hazards by distributing County hazard mitigation information and evaluating grant opportunities for potential use on hazard mitigation projects within the Village of Brooklyn

Steps:

1) Consider Dane County hazard mitigation information and its relevance to Village hazard mitigation efforts and resident safety.
2) Take necessary steps to apply for hazard mitigation grant money when available.

Lead Implementing Agency: Village of Brooklyn

Supporting Agencies: Dane County Emergency Management

Possible Funding and Technical Assistance:

Timeline: Continuous

Priority: Moderate

Estimated Costs: Unknown