South Barrington

Hazard Mitigation Plan Point of Contact

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Jurisdiction Profile

The following is a summary of key information about the jurisdiction and its history:

Date of Incorporation: 1959

Current Population: The 2020 U.S. Census population was 5,077. The 2022 U.S. Census estimate indicated the population was 4,992.

Population Growth: The overall population has increased by 0.22% between 2017 and 2022.

Location and Description: South Barrington is a northwest suburb of Chicago, located in Barrington Township, Cook County, IL, approximately 33 miles from the Chicago Loop. South Barrington is situated in between 4 forest preserve areas in every direction. Adjacent suburbs include: Barrington to the north, Hoffman Estates to the south, east, and west and Barrington Hills to the west. According to the U.S. Census Bureau, South Barrington has a total land area of 7.6 square miles.

Brief History: The South Barrington area had been mostly farms and large lot development until its incorporation when subdivisions began to be created with residential lots of about 1 ½ acre in size predominated. No further historical information is necessary to document.

Climate: The climate of South Barrington and the Chicago area is classified as humid continental, with all four seasons distinctly represented: wet springs; hot and humid summers; pleasant autumns; and cold winters. Annual precipitation reaches its lowest points in the months of January and February, and peaks in the months of May and June. Winter proves quite variable. Seasonal snowfall in the Village has ranged from 9 - 90 inches. The daily mean temperature in January at O'Hare Airport is 23.6 °F (-4.7 °C), and temperatures often stay below freezing for several consecutive days or even weeks in January and February. Temperatures drop to or below 0 °F (-18 °C) on 5.5 nights annually at Midway and 8.2 nights at O'Hare. Spring in the Chicago area is perhaps the areas wettest and most unpredictable season. Winter like conditions can persist well into April and even occasionally into May. Thunderstorms are especially prevalent in the spring as the area's proximity to Lake Michigan makes it a center of conflicts between large volumes of warmer and colder air, triggering many kinds of severe weather. Temperatures vary tremendously in the springtime; March

is the month with the greatest span between the record highs and lows. On a typical summer day, humidity is usually moderately high and temperatures ordinarily reach anywhere between 78 and 92 °F (26 and 33 °C). The extreme heat that the Chicago area is capable of experiencing during the height of the summer season can persist into the autumn season. Temperatures have reached 100 degrees high and subzero lows below –18 °C. Fall can bring heavy thunderstorms, many of which are capable of producing flooding. The average first accumulating snow occurs around Nov 19.

Governing Body Format: The Village of South Barrington operates under a Village Board form of government with a Village President and 6 elected trustees. This body of Government will assume the responsibility for the adoption and implementation of this plan. There are four Village departments: Administration, Building and Zoning, Engineering, and Police Department. South Barrington is located within three fire districts which serve the entire Village.

Development Trends: Development is expected to be slow with the largest sector being residential. There is one major shopping center development near the intersection of I-90, Route 72 and Route 59.

Changes in Community Priorities: There have been no significant changes in priority regarding the hazards that could potentially impact the community or changes in priority regarding resilience.

Capability Assessment

The assessment of the jurisdiction's legal and regulatory capabilities is presented in the *Legal and Regulatory Capability Table* below. The assessment of the jurisdiction's fiscal capabilities is presented in the *Fiscal Capability Table* below. The assessment of the jurisdiction's administrative and technical capabilities is presented in the *Administrative and Technical Capability Table* below. Information on the community's National Flood Insurance Program (NFIP) compliance is presented in the *National Flood Insurance Program Compliance Table* below. Classifications under various community mitigation programs are presented in the *Community Classifications Table* below.

TABLE: LEGAL AND REGULATORY CAPABILITY					
	Local Authority	State or Federal Prohibitions	Other Jurisdictional Authority	State Mandated	Comments
Codes, Ordinance	es & Requirem	nents			
Building Code	Yes	No	No	Yes	Ord. O-2018- 1187, 8-9- 2018. Update to International Code
Zonings	Yes	No	No	Yes	65 ILCS 5/) Illinois Municipal Code. Ord. O-11- 950, 9-22- 2011

Subdivisions	Yes	No	No	No	Ord. O-77- 57A. 2-9-1977
Stormwater Management	Yes	No	Yes	Yes	Adopted the MWRD Watershed Management Ord. with amendments. Ord. O-94- 451, 11-10- 1994
Post Disaster Recovery	No	No	No	No	
Real Estate Disclosure	No	No	Yes	Yes	(765 ILCS 77/) Residential Real Property Disclosure Act.
Growth Management	No	No	No	No	
Site Plan Review	Yes	No	No	No	Ord. O-94-45-, 11-10-1994
Public Health and Safety	No	No	Yes	Yes	Cook County Board of Health.
Environmental Protection	Yes	No	No	Yes	Ord. O-94-452 Potable water regulated by IEPA and Cook County
Planning Docume	ents				
General or Comprehensive Plan	Yes	No	No	No	Ord. O-85- 221, 6-13- 1985
Is the plan equipped to provide integration to this mitigation plan?				Yes, Plan includes a land use element.	
Floodplain or Basin Plan	No	No	No	Ord. O- 2007-832, 9-5-2007	Yes
Stormwater Plan	No	Yes	No	The Village participates in the National Pollutant Discharge Elimination System and submits annual updates.	Yes

Capital Improvement Plan	No	No	No	Fiscal Year 2020	Yes
Plan What types of capital facilities does the plan address?					Streets, Sanitary Sewer, Drainage, Water Distribution, Trees, Village Hall, Street Lights, Other Agencies, Other Utilities
		11000			The Village
Habitat Conservation Plan	Yes	No	No	No	participated in the development of the Spring Creek Watershed Partnership document.
Economic Development Plan	No	No	Yes	Yes	
Shoreline Management Plan	No	No	No	No	
Response/Recove					
Comprehensive Emergency Management Plan	Yes	No	Yes	Yes	Cook County EMRS
Threat and Hazard Identification and Risk Assessment	Yes	No	Yes	No	Cook County EMRS
Terrorism Plan	Yes	No	Yes	Yes	Cook County EMRS
Post-Disaster Recovery Plan	Yes	No	Yes	Yes	Cook County EMRS
Continuity of Operations Plan	Yes	No	Yes	No	Cook County EMRS
Public Health Plans	No	No	Yes	No	Cook County DPH

TABLE: FISCAL CAPABILITY	
Financial Resources	Accessible or Eligible to Use?

Community Development Block Grants	Yes
Capital Improvements Project Funding	Yes
Authority to Levy Taxes for Specific Purposes	Yes
User Fees for Water, Sewer, Gas or Electric Service	Yes
Incur Debt through General Obligation Bonds	Yes
Incur Debt through Special Tax Bonds	Yes
Incur Debt through Private Activity Bonds	Yes
Withhold Public Expenditures in Hazard-Prone Areas	Yes
State Sponsored Grant Programs	Yes
Development Impact Fees for Homebuyers or Developers	Yes
Other	

TABLE: ADMINISTRATIVE AND TECHNICAL CAPABILITY				
Staff/Personnel Resources	Available?	Department/Agency/Position		
Planners or engineers with				
knowledge of land development	Yes	Village Engineer		
and land management practices				
Engineers or professionals trained				
in building or infrastructure	Yes	Village Engineer and Building Officer		
construction practices				
Planners or engineers with an	Ves	Village Engineer		
understanding of natural hazards	163			
Staff with training in benefit/cost	Ves	Finance Officer		
analysis	103			
Surveyors	Yes	Contracted as Needed		
Personnel skilled or trained in GIS	Voc	Village Engineer & Part time GIS Tech		
applications	165			
Scientist familiar with natural	No			
hazards in local area	NO			
Emergency manager	No			
Grant writers	Yes	Village Administrator		

TABLE: NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE			
What department is responsible for floodplain management in your	Building Zoning and		
jurisdiction?	Engineering		
·	Department		
	Building Zoning and		
Who is your jurisdiction's floodplain administrator? (department/position)	Engineering		
	Department / Building		
	Officer		
Are any certified floodplain managers on staff in your jurisdiction?	No		
What is the date of adoption of your flood damage prevention ordinance?	Ord. O-2007-832, 9-5-		
what is the date of adoption of your hood damage prevention ordinance:	2007		
When was the most recent Community Assistance Visit or Community			
Assistance Contact?	10111, 2010		
Does your jurisdiction have any outstanding NFIP compliance violations	LOMA Submittal		
that need to be addressed? If so, please state what they are.	Woods Sub.		
Do your flood hazard maps adequately address the flood risk within your	Vee		
jurisdiction? (If no, please state why)	Tes		

Does your floodplain management staff need any assistance or training to	
support its floodplain management program? If so, what type of	No
assistance/training is needed?	
Does your jurisdiction participate in the Community Rating System (CRS)? If	
so, is your jurisdiction seeking to improve its CRS Classification? If not, is	No
your jurisdiction interested in joining the CRS program?	

NFIP Participation Activities

Maintaining compliance under the NFIP is an important component of flood risk reduction. All planning partners that participate in the NFIP have identified actions to maintain their compliance and good standing. Cook County entered the NFIP on April 15, 1981. Structures permitted or built in the County before then are called "pre-FIRM" structures, and structures built afterwards are called "post-FIRM." The insurance rate is different for the two types of structures. The effective date for the current countywide FIRM is August 19, 2008. This map is a DFIRM (digital flood insurance rate map). The communities in Cook County that participate in the NFIP are shown in *Table: NFIP Participating Communities in Cook County* in **Volume I** of the Cook County MJ-HMP.

The NFIP makes federally-backed flood insurance available to homeowners, renters, and business owners in participating communities. The communities in Cook County that participate in the NFIP and their "Policies in Force," "Total Coverage," and "Total Written Premiums" are shown in *Table: Cook County Flood Insurance Policies* in Volume I of the Cook County MJ-HMP.

The following are NFIP-related activities completed by our community:

- Our staff provide the following services: permit reviews, GIS, inspections, engineering capability.
- Our community enforces local floodplain regulations and monitors compliance.

Substantial Improvement Rule and the Substantial Damage Rule

The IDNR/OWR has developed a model ordinance for floodplain management, which has been adopted by most communities in Illinois. The ordinance includes the minimum requirements an NFIP participating jurisdiction must adopt and enforce, as well as additional higher regulatory requirements. The optional, higher regulatory standards include a minimum one foot of freeboard above the base flood elevation and cumulative tracking of damage repairs and improvements to establish substantial damage and substantial improvement compliance. Some jurisdictions have chosen to exceed the requirements of the model ordinance and have adopted more restrictive ordinances. This is most common in the communities in northeastern Illinois.

Existing Municipal Code:

12-1-2 Definitions

SUBSTANTIAL DAMAGE: Damage of any origin sustained by a structure whereby the cumulative percentage of damage during a ten (10) year period equals or exceeds fifty percent (50%) of the market value of the structure before the damage occurred regardless of actual repair work performed. Volunteer labor and materials must be included in this determination. This term includes repetitive loss buildings (see definition of Repetitive Loss).

SUBSTANTIAL IMPROVEMENT: Any reconstruction, rehabilitation, addition, or improvement of a structure taking place during a ten (10) year period in which the cumulative percentage of improvements equals or exceeds fifty percent (50%) of the market value of the structure before the improvement or repair is started.

A. "Substantial improvement" is considered to occur when the first alteration of any wall, ceiling, floor, or other structural part of the building commences, whether or not that alteration affects the external dimensions of the building. This term includes structures which have incurred repetitive loss or substantial damage, regardless of the actual work done.

B. This term does not, however, include either:

1. Any project for improvement of a structure to comply with existing state or local health, sanitary, or safety code specifications which are solely necessary to assure safe living conditions, or

2. Any alteration of a "historic structure" listed on the national register of historic places or the Illinois register of historic places; provided, that the alteration will not preclude the structure's continued designation as a historic structure.

12-1-4 Duties of Building Officer

The building officer shall be responsible for the general administration and enforcement of this chapter, which shall include the following:

A. Determining The Floodplain Designation:

1. Check all new development sites to determine whether they are in a special flood hazard area (SFHA).

2. If they are in an SFHA, determine whether they are in a floodway, flood fringe or in a floodplain for which a detailed study has not been conducted and which drains more than one square mile.

3. Check whether the development is potentially within an extended SFHA (with a drainage area less than 1 square mile), indicating that the development would have adverse impacts regarding storage, conveyance, or inundation which would be the basis for the applicant being required to delineate the floodplain and floodway and be subject to the remaining sections of this chapter.

B. Professional Engineer (PE) Review:

1. If the development site is within a floodway or in a floodplain for which a detailed study has not been conducted and which drains more than one square mile, the permit shall be referred to the village engineer for review to ensure that the development meets section <u>12-1-7</u> or <u>12-1-8</u> of this chapter.

2. In the case of an appropriate use, the PE shall state in writing that the development meets the requirements of section <u>12-1-7</u> of this chapter.

G. Damage Determinations: Make damage determinations of all damaged buildings in the SFHA after a flood to determine substantially damaged structures which must comply with subsection 12-1-9C2b of this chapter.

12-1-9 Permitting Requirements Applicable to all Floodplain Areas

In addition to the requirements found in sections <u>12-1-6</u>, <u>12-1-7</u>, and <u>12-1-8</u> of this chapter for development in flood fringes, designated floodways, and SFHAs or floodplains where no floodways have been identified, the following requirements shall be met:

C. Protecting Buildings:

1. All buildings located within a 100-year floodplain, also known as an SFHA, shall be protected from flood damage below the flood protection elevation. This building protection criteria applies to the following situations:

a. Substantial improvements or structural alterations made to an existing building that increase the floor area by more than twenty percent (20%) or equal or exceed the market value by fifty percent (50%). Alteration shall be figured cumulatively during a 10-year period. If substantially improved, the existing structure and the addition must meet the flood protection standards of this section.

b. Repairs made to a substantially damaged building. These repairs shall be figured cumulatively during a 10-year period. If substantially damaged, the entire structure must meet the flood protection standards of this section.

c. Installing a manufactured home on a new site or a new manufactured home on an existing site (the building protection requirements do not apply to returning a manufactured home to the same site it lawfully occupied before it was removed to avoid flood damage).

d. Installing a travel trailer or recreational vehicle on a site for more than one hundred eighty (180) days per year.

e. "Repetitive loss" to an existing building as defined in section <u>12-1-2</u> of this chapter. (Ord. 2015-1061, 3-19-2015)

2. This building protection requirement may be met by one of the following methods:

a. A residential or nonresidential building, when allowed, may be constructed on permanent land fill in accordance with the following:

(1) Lowest Floor Elevation Requirement: The lowest floor (including basement) shall be at or above the flood protection elevation; and

(2) Fill Requirements:

(A) The fill shall be placed in layers no greater than six inches (6") deep before compaction and should extend at least ten feet (10') beyond the foundation of the building before sloping below the flood protection elevation; and

(B) The top of the fill shall be above the flood protection elevation. However, the ten foot (10') minimum may be waived if a structural engineer certifies an alternative method to protect the building from damages due to hydrostatic pressures; and

(C) The fill shall be protected against erosion and scour during flooding by vegetative cover, riprap or other structural measure; and

(D) The fill shall be composed of rock or soil and not incorporate debris or refuse materials; and

(E) The fill shall not adversely affect the flow or surface drainage from or onto neighboring properties, and, when necessary, stormwater management techniques such as swales or basins shall be incorporated.

b. A residential or nonresidential building may be elevated in accordance with the following:

(1) The building or improvements shall be elevated on crawl space, stilts, piles, walls, or other foundation that is permanently open to floodwaters and not subject to damage by hydrostatic pressures of the base flood or 100-year frequency flood. Designs must either be certified by a registered professional engineer or architect or the permanent openings, one on each wall, shall be no more than one foot (1') above existing grade, and consists of a minimum of two (2) openings. The openings must have a total net area of not less than one square inch for every one square foot of enclosed area subject to flooding below the base flood elevation; and

(2) The foundation and supporting members shall be anchored and aligned in relation to flood flows and adjoining structures so as to minimize exposure to known hydrodynamic forces such as current, waves, ice and floating debris; and

(3) All areas below the flood protection elevation shall be constructed of materials resistant to flood damage; and

(4) The lowest floor (including basement) and all electrical, heating, ventilating, plumbing, and air conditioning equipment and utility meters shall be located at or above the flood protection elevation; and

(5) Water and sewer pipes, electrical and telephone lines, submersible pumps, and other waterproofed service facilities may be located below the flood protection elevation provided they are waterproofed; and

(6) The areas below the flood protection elevation may only be used for the parking of vehicles, building access or storage in an area other than a basement and not later modified or occupied as habitable space; and

(7) In lieu of the above criteria, the design methods to comply with these requirements may be certified by registered professional engineer or architect.

c. Manufactured homes, and travel trailers to be installed on a site for more than one hundred eighty (180) days, shall be elevated to or above the flood protection elevation; and, shall be anchored to resist flotation, collapse, or lateral movement by being tied down in accordance with the rules and regulations for the Illinois mobile home tie down act issued pursuant to 77 Illinois administrative code part 870. In addition, all manufactured homes shall meet the following elevation requirements:

(1) In the case of manufactured homes placed or substantially improved: a) outside of a manufactured home park or subdivision, b) in a new manufactured home park or subdivision, c) in an expansion to an existing manufactured home park or subdivision, or d) in an existing manufactured home park or subdivision on which a manufactured home has incurred substantial damage from a flood, the top of the lowest floor shall be elevated to or above the flood protection elevation.

(2) In the case of manufactured homes placed or substantially improved in an existing manufactured home park or subdivision, the manufactured home shall be elevated so that either the top of the lowest floor is above the base flood elevation or the chassis is at least thirty six inches (36") in height above grade and supported by reinforced piers or other foundations of equivalent strength, whichever is less.

g. Construction of new or substantially improved critical facilities shall be located outside the limits of the floodplain. Construction of new critical facilities shall be permissible within the floodplain if no feasible alternative site is available. Critical facilities constructed within the SFHA shall have the lowest floor (including basement) elevated or structurally dry floodproofed to the 500-year flood frequency elevation or three feet (3') above the level of the 100-year flood frequency elevation whichever is greater. Floodproofing and sealing measures must be taken to ensure that toxic substances will not be displaced by or released into floodwaters. Access routes elevated to or above the level of the base flood elevation shall be provided to all critical facilities.

TABLE: COMMUNITY CLASSIFICATIONS				
	Participating?	Classification	Date Classified	
Community Rating System	No	N/A	N/A	
Building Code Effectiveness Grading Schedule	Yes	Unknown	Unknown	
Public Protection/ISO	Yes	Unknown	Unknown	
StormReady	Yes	Gold (Countywide)	2014	
Tree City USA	No	N/A	N/A	

Opportunities to Expand and Improve Capabilities

Opportunities to expand and improve capabilities include:

- Ability to fund local match for mitigation grants.
- Improve building codes or ordinances.

Plan Integration

The capability assessment describes opportunities to "link" or integrate the mitigation plan into other planning mechanisms. The process and mechanism to identify opportunities to integrate the Cook County MJ-HMP into other planning mechanisms will occur during the Annual Update Process and be reflected in the Jurisdictional Annual Report each year. Specific plan integration opportunities will include:

- The goals and actions of the Hazard Mitigation Plan will be considered in the next capital improvement planning process.
- The hazards, goals, and actions of the Hazard Mitigation Plan will be considered in the next update of the Comprehensive Plan.
- The hazards, goals, and actions of the Hazard Mitigation Plan will be considered in the next update of the jurisdiction's land use plans, zoning, and subdivision codes.

Emergency Plan Integration:

Cook County EMRS is supporting communities to develop and update their respective Emergency Operations Plans, Continuity of Operations Plan/Continuity of Government Plan, and Recovery Plan in 2024. This is an ongoing countywide initiative and is being implemented in all municipalities.

Emergency Operations Plan (EOP)

An EOP template was created for all municipalities. The 2019 Cook County MJ-HMP and the hazards in the mitigation plan have been integrated into the Situation and Assumptions section of the EOP. Within that section, the natural hazards based on the 2019 MJ-HMP were added in the Initial Analysis

and Assessment and Identification of Hazards section of the EOP. The hazards in the 2019 plan and the 2024 MJ-HMP did not change apart from adding wildfires for the Forest Preserve and unincorporated areas of the County. Future updates of the EOP will take into consideration any additional new natural hazards that are added to subsequent updates to the MJ-HMP.

Continuity of Operations Plan (COOP)

The Continuity of Operations Plan (COOP) for the municipality includes a Situation section that is based on the 2019 Cook County MJ-HMP jurisdictional annex, and specifically the hazards identified in the annex. The COOP-specific risk assessment is hazard-specific and based on likelihood of occurrence and severity of impact.

Recovery Plan

The goals of the Recovery Plan were developed to align with the 2019 Cook County MJ-HMP, and specifically prioritizes the responsibility of officials under this plan to save lives, protect property, relieve human suffering, sustain survivors, repair essential facilities, restore services, and protect the environment. The plan acknowledges that hazard mitigation is an important priority and consideration during the rebuilding process.

Jurisdiction-Specific Natural Hazard Event History

The information provided below was solicited from the jurisdiction and supported by NOAA and other relevant data sources.

The *Natural Hazard Events Table* lists all past occurrences of natural hazards within the jurisdiction. Repetitive flood loss records are as follows:

- Number of FEMA-Identified Repetitive Loss Properties: None
- Number of FEMA-Identified Severe Repetitive Loss Properties: None
- Number of Repetitive Flood Loss/Severe Repetitive Loss Properties That Have Been Mitigated: None

Disaster Declaration Number	Date Declared	Event
DR-227	4/25/1967	Tornado
DR-351	9/4/1972	Flood
DR-373	4/26/1973	Flood
DR-509	6/18/1976	Severe Storm(s)
DR-643	6/30/1981	Severe Storm(s)
DR-776	10/7/1986	Flood
DR-798	8/21/1987	Flood
DR-997	7/9/1993	Flood
DR-1129	7/25/1996	Severe Storm(s)
DR-1188	9/17/1997	Severe Storm(s)
DR-1729	9/25/2007	Severe Storm(s)
DR-1800	10/3/2008	Severe Storm(s)
DR-1935	8/19/2010	Severe Storm(s)
DR-1960	3/17/2011	Snow

Federal Disasters Declared

EM-3068	1/16/1979	Snow
EM-3134	1/8/1999	Snow
EM-3161	1/17/2001	Snow
EM-3230	9/7/2005	Hurricane – Katrina Evacuation
EM-3435	3/13/2020	Biological
DR-4116	5/10/2013	Flood
DR-4489	3/26/2020	Biological
DR-4728	8/15/2023	Severe Storm(s)
DR-4749	11/20/2023	Flood

State Disaster Declarations

Date Declared	Event
7/26/2010	Severe Storms, High Winds, Torrential Rain
1/31/2011	Winter Weather
4/25/2011	High Wind, Tornadoes, Torrential Rain
5/25/2011	
4/18/2013	Severe Storms, Heavy Rainfall, Flooding, Straight-line Winds
4/20/2013	
4/21/2013	
4/25/2013	
4/30/2013	
1/6/2014	Heavy Snowfall, Frigid Temperatures
7/12/2017	Thunderstorms, Heavy Rainfall, Flooding
7/14/2017	
1/29/2019	Winter Storm
2/6/2020	Severe Storms
3/12/2020 – present (reissued	COVID-19
monthly)	
2/16/2021	Winter Storms
2/1/2022	Winter Storms
8/1/2022	Monkeypox
(reissued monthly through	
10/28/2022)	

TABLE: NATURAL HAZARD EVENTS					
Type of Event	FEMA Disaster Number (if applicable)	Date	Preliminary Damage Assessment/ Event Narrative		
High Wind	-	9/1/2014	Tree Damage		
Severe Weather	Illinois DR-4116	4/26/2013	Minor Street Flooding & Tree Damage		
Drought	-	4/1/2012	Some Residential Wells Dried up		
Severe Winter Weather	Illinois DR-1960	1/31/2011	Major Winter Snow Storm		
Severe Weather	Illinois DR-1935	7/19/2010	Minor Street Flooding & Tree Damage		
Severe Weather	Illinois DR-1800	9/13/2008	Minor Street Flooding & Tree Damage		

Severe Weather Illinois DR-1729		8/20/2007	Minor street Flooding & Tree Damage	
Flooding	N/A	May, 2017	Basement Flooding	

Jurisdiction-Specific Hazards: Vulnerabilities and Impacts

Hazards that represent a county-wide risk are addressed in the Risk Assessment section of the 2024 Cook County Multi-Jurisdictional Hazard Mitigation Plan Update. This section only addresses the hazards and their associated impacts that are **relevant** and **unique** to the municipality.

Dam/Levee Failure: We have been concerned about the potential for a dam/levee failure at Covered Bridge Road (Sunset Farm subdivision) and at Poplar Creek (overtopping has occurred at both locations). Our dam/levee has overtopped at Covered Bridge Road - a separate lake on Creek, which often results in floods with lake overflow (Poplar Creek Branch).

Flood: We have experienced flooding at the Spring Creek Subdivision as a result of detention basin backups and overall lack of volume due to flash flood and high rainfall rates.

High Winds: In general, many mature trees along roadways are vulnerable to high winds that have led to trees and branches blocking roadways.

Snow: The jurisdiction-specific impacts of snow-related hazards depend on our selection of contractors for plowing services (there is no Public Works Dept.)

Ice Storms: Likewise, the jurisdiction-specific impacts of ice storms are contingent on our selection of contractors for salting services.

Indicator	Number	Percent
Families in poverty	199	3.3%
People with disabilities	1,230	6.2%
People over 65 years	3,952	19.8%
People under 5 years	1,014	5.1%
People of color	6,577	33%
Black	211	1.1%
Native American	0	0%
Hispanic	1,080	5.4%
Difficulty with English	670	3.5%
Households with no car	189	2.8%
Mobile homes	0	0%

Data are from the U.S. Census Bureau, American Community Survey. See methods for more information.

The community evaluated whether vulnerability, and subsequently the potential impacts, in hazardprone areas had increased, decreased, or remained the same for each natural hazard identified in this Hazard Mitigation Plan. Climate change, infrastructure expansion, and economic shifts that can affect vulnerability were considered. For example, if planned development is in an identified hazard area or is not built to the updated building codes, it may increase the community's vulnerability to future hazards and disasters. On the other hand, if development occurred with mitigation practices in place, the vulnerability may have remained the same or decreased. Additionally, shifting demographics were taken into consideration when assessing development trends.

Jurisdiction-Specific Climate Change Vulnerability and Impacts

The table below outlines if climate change, as assessed by the local planning team, has increased or decreased the municipality's vulnerability/exposure, and thereby the potential impacts, to each natural hazard over the past five (5) years (**Current Vulnerability**), and the effect of climate change in the future probability of occurrence and impacts (**Future Vulnerability**) from each natural hazard.

Future studies are needed to better understand the impact of climate change on the community's assets.

Hazard	Vulnerability
Current Vulnerability	
Dam and Levee Failure	Remained the Same
Drought	Remained the Same
Earthquake	Remained the Same
Flood (Riverine, Urban, Shoreline)	Remained the Same
Severe Weather (Extreme Heat, Lightning, Hail,	Remained the Same
Fog, High Wings)	Normalined the barrie
Severe Winter Weather (Ice Storms, Heavy Snow,	Remained the Same
Blizzards, Extreme Cold)	Nemained the Same
Tornado	Remained the Same
Wildfire (Wildfire Smoke)	Remained the Same

Hazard	Vulnerability			
Future Vulnerability				
Dam and Levee Failure	No Change is Anticipated			
Drought	No Change is Anticipated			
Earthquake	No Change is Anticipated			
Flood (Riverine, Urban, Shoreline)	No Change is Anticipated			
Severe Weather (Extreme Heat, Lightning, Hail,	No Change is Anticipated			
Fog, High Wings)				
Severe Winter Weather (Ice Storms, Heavy Snow,	No Change is Anticipated			
Blizzards, Extreme Cold)	No Change is Anticipated			
Tornado	No Change is Anticipated			
Wildfire (Wildfire Smoke)	No Change is Anticipated			

Jurisdiction-Specific Changes (or Expected Changes) in Development Trends in Hazard-Prone Areas

The table below outlines if development, as assessed by the local planning team, over the past five (5) years (**Current Vulnerability**) has increased or decreased the jurisdiction's vulnerability / exposure, and thereby the potential impacts, to these natural hazards, and the anticipated effects changes in development may have on the future probability of occurrence and impacts (**Future Vulnerability**) from these natural hazards.

Hazard	Vulnerability
Current Vulnerability	
Dam and Levee Failure	Remained the Same
Drought	Remained the Same
Earthquake	Remained the Same
Flood (Riverine, Urban, Shoreline)	Remained the Same
Severe Weather (Extreme Heat, Lightning, Hail,	Domained the Come
Fog, High Wings)	

Severe Winter Weather (Ice Storms, Heavy Snow, Blizzards, Extreme Cold)	Remained the Same	
Tornado	Remained the Same	
Wildfire (Wildfire Smoke)	Remained the Same	

Hazard	Vulnerability
Future Vulnerability	
Dam and Levee Failure	No Change is Anticipated
Drought	No Change is Anticipated
Earthquake	No Change is Anticipated
Flood (Riverine, Urban, Shoreline)	No Change is Anticipated
Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Wings)	No Change is Anticipated
Severe Winter Weather (Ice Storms, Heavy Snow, Blizzards, Extreme Cold)	No Change is Anticipated
Tornado	No Change is Anticipated
Wildfire (Wildfire Smoke)	No Change is Anticipated

Our community does not anticipate future major assets may be exposed or vulnerable to any of the natural hazards identified in this Hazard Mitigation Plan. Any new assets (e.g., new construction in hazard prone areas) will be constructed to adhere to the latest building codes and standards, and mitigation to protect them from identified and anticipated hazards, especially those that are expected to increase due to climate change.

Hazard Risk Ranking

The *Hazard Risk Ranking Table* below presents the ranking of the hazards of concern. Hazard area extent and location maps are included at the end of this chapter. 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.

TABLE: HAZARD RISK RANKING		
Rank	Hazard Type	
1	Severe Weather	
2	Severe Winter Weather	
3	Earthquake	
4	Flood	
5	Tornado	
6	Dam Failure	
7	Drought	

New Mitigation Actions

The following are new mitigation actions created during the 2024 update.

Mitigation Action #19: Structure analysis at Covered Bridge.					
Lead Agency/Department	Supporting	Estimated Cost:	Potential	Estimated	Hazard(s)
Organization:	Agencies/	High	Funding	Projected	Mitigated:
Administration	Organizations:		Source:	Completion	Dam/Levee
	Building		Hazard	Date:	
	Department		Mitigation	Long-term	
			Grant		
			Program		
			(HMGP)		
			General Fund		
Year Initiated		2024			
Applicable Jurisdiction		Village of South Barrington			
Applicable Goal		1,2,3,4,5,6			
Applicable Objective		1,2,3,4,5,6,8,9,10,13			
Cost Analysis (Low, Medium)	, High)	High			
Priority and Level of Importance (Low,		High			
Medium, High)		- ngn			
Benefits of the Mitigation Project (Loss		High			
Avoided or Issue Being Mitigat	ed)				
Action/Implementation Plan	and Project	Structure analysis at Covered Bridge.			
Description:					
Actual Completion Date or O	Date or Ongoing Indefinite				
Project Status & Changes in Priority					
Completion status legend:					
N = New; I = In Progress Toward Completion;		N			
O = Ongoing Indefinitely; C = Project					
Completed; R = Want Removed from Annex; X =					
No Action Taken/Delayed					

Mitigation Action #20: Subdivision storm sewer repairs.						
Lead	Supporting	Estimated	Potential	Estimated	Hazard(s) Mitigated:	
Agency/Department	Agencies/	Cost:	Funding	Projected	Flood (Riverine, Urban,	
Organization:	Organizations:	High	Source:	Completion	Coastal/Shoreline)	
Administration	Building		Hazard	Date:		
	Department		Mitigation	Long-term		
			Grant			
			Program			
			(HMGP)			
			General			
			Fund			
Year Initiated		2024				
Applicable Jurisdiction		Village of South B	Barrington			
Applicable Goal		1,2,3,4,5,6				
Applicable Objective		1,2,3,4,5,6,8,9,10,13				
Cost Analysis (Low, Mediu	m, High)	High				
Priority and Level of Importance (Low,		High				
Medium, High)						
Benefits of the Mitigation Project (Loss		High				
Avoided or Issue Being Mitig	ated)					
Action/Implementation Pla	an and Project	Subdivision storm sewer repairs.				
Description:						
Actual Completion Date or	Ongoing					
Indefinite						
Project Status & Changes in Priority						
Completion status legend:						
N = New; I = In Progress Toward Completion;		Ν				
O = Ongoing Indefinitely; C = Project						
Completed; R = Want Removed from Annex; X =						
No Action Taken/Delayed						

Mitigation Action #21: Tree p	runing to prevent da	amage.			
Lead Agency/Department	Supporting	Estimated Cost:	Potential	Estimated	Hazard(s)
Organization:	Agencies/	High	Funding	Projected	Mitigated:
Administration	Organizations:		Source:	Completion	Severe
	Building		Hazard	Date:	Weather
	Department		Mitigation	Long-term	(Extreme
			Grant		Heat,
			Program		Lightning.
			(HMGP)		Hail, Fog, High
			General Fund		Winds)
					Severe Winter
					Weather (Ice
					Storm, Heavy
					Snow,
					Blizzards,
					Extreme Cold)
Year Initiated		2024	•		
Applicable Jurisdiction		Village of South Barrington			
Applicable Goal		1,2,3,4,5,6			
Applicable Objective		1,2,3,4,5,6,8,9,10,13			
Cost Analysis (Low, Medium,	, High)	High			
Priority and Level of Importa	nce (Low,	High			
Medium, High)		i ligit			
Benefits of the Mitigation Pro	o ject (Loss	High			
Avoided or Issue Being Mitigated)		1 11611			
Action/Implementation Plan and Project		Tree pruning to prevent damage			
Description:			duniugo.		
Actual Completion Date or Ongoing Indefinite					
Project Status & Changes in Priority					
Completion status legend:		N			
N = New; I = In Progress Towar	d Completion;	1 1			
O = Ongoing Indefinitely; C = P	roject				

Completed; R = Want Removed from Annex; X =	
No Action Taken/Delayed	

Mitigation Action #22: Heavy equipment contractors, readily available.					
Lead Agency/Department	Supporting	Estimated Cost:	Potential	Estimated	Hazard(s)
Organization:	Agencies/	High	Funding	Projected	Mitigated:
Administration	Organizations:		Source:	Completion	Severe
	Building		Hazard	Date:	Weather
	Department		Mitigation	Long-term	(Extreme
			Grant		Heat,
			Program		Lightning.
			(HMGP)		Hail, Fog, High
			General Fund		Winds)
					Severe Winter
					Weather (Ice
					Storm, Heavy
					Snow,
					Blizzards,
					Extreme Cold)
Year Initiated		2024			
Applicable Jurisdiction		Village of South Barrin	igton		
Applicable Goal		1,2,3,4,5,6			
Applicable Objective		1,2,3,4,5,6,8,9,10,13			
Cost Analysis (Low, Medium,	High)	High			
Priority and Level of Importa	nce (Low,	High			
Medium, High)					
Benefits of the Mitigation Project (Loss		High			
Avoided or Issue Being Mitigated)					
Action/Implementation Plan and Project		Heavy equipment contractors, readily available			
Description:					
Actual Completion Date or O	ngoing Indefinite				
Project Status & Changes in I	Priority	Ν			

Completion status legend:
N = New; I = In Progress Toward Completion;
O = Ongoing Indefinitely; C = Project Completed;
R = Want Removed from Annex; X = No Action
Taken/Delayed

Ongoing Mitigation Actions

The following are ongoing actions with no definitive end or that are still in progress. During the 2024 update, these "ongoing" mitigation actions and projects were modified and/or amended, as needed.

Mitigation Action #2: Use of E	Blackboard Connect	to communicate to re	sidents.			
Lead Agency/Department	Supporting	Estimated Cost:	Potential	Estimated	Hazard(s)	
Village Administration	Organizations:	\$3,600, LOW	Source: General Fund	Completion Date: Ongoing	All	
Year Initiated		2014		·		
Applicable Jurisdiction		Village of South Barrington				
Applicable Goal		1,2,3,4,5,6				
Applicable Objective		1,5,6				
Cost Analysis (Low, Medium, High)		Low				
Priority and Level of Importance (Low, Medium, High)		High				
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)		High				
Action/Implementation Plan and Project		Village continues to utilize Blackboard Connect to be able to send emergency				
Description:		notifications to residents.				
Actual Completion Date or Ongoing Indefinite						
Project Status & Changes in Priority		0				

Completion status legend:	2023: The Village is utilizing the Code Red Emergency Notification System to
N = New; I = In Progress Toward Completion;	notify residents of community threats and in the event of a natural disaster.
O = Ongoing Indefinitely; C = Project Completed;	Ongoing.
R = Want Removed from Annex; X = No Action	
Taken/Delayed	

Mitigation Action #3: Outdoo	r Emergency Siren V	Varning System.				
Lead Agency/Department	Supporting	Estimated Cost:	Potential	Estimated	Hazard(s)	
Organization:	Agencies/	\$100,000; High	Funding	Projected	Mitigated:	
Village Administration	Organizations:		Source:	Completion	All	
			General	Date:		
			Fund, BRIC,	Long-term		
			HMGP	_		
Year Initiated		2014				
Applicable Jurisdiction		Village of South Barrir	ngton			
Applicable Goal		1,2,3,4,5,6				
Applicable Objective		1,5				
Cost Analysis (Low, Medium, High)		High				
Priority and Level of Importance (Low,		Medium				
Medium, High)	Medium, High)					
Benefits of the Mitigation Pro	ject (Loss	High				
Avoided or Issue Being Mitigate	ed)					
Action/Implementation Plan	and Project	No change in determining a location or feasibility				
Description:						
Actual Completion Date or O	ngoing Indefinite					
Project Status & Changes in Priority						
Completion status legend:						
N = New; I = In Progress Toward Completion;		0				
O = Ongoing Indefinitely; C = Project Completed;		2023: Top priority and need.				
R = Want Removed from Annex; X = No Action						
Taken/Delayed						

Mitigation Action #4: Annual I	ent Program					
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: \$50,000; Low	Potential Funding Source: General Fund, BRIC, HMGP, FMA	Estimated Projected Completion Date: Ongoing	Hazard(s) Mitigated: Flooding, Severe Weather, Dam Failure	
Year Initiated		2014		I		
Applicable Jurisdiction		Village of South Barrin	gton			
Applicable Goal		1,2,3				
Applicable Objective		1,2,9				
Cost Analysis (Low, Medium, High)		Low				
Priority and Level of Importance (Low, Medium, High)		High				
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)		High				
Action/Implementation Plan and Project Description:		Village is continuing it's annual program to clean storm sewers, culverts and storm structures. This now includes monthly clearing of culverts and inlets to prevent flooding.				
Actual Completion Date or Ongoing Indefinite						
 Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed 		O 2023: Continue to evaluate road and ditch conditions and culvert maintenance to address potential flooding situations proactively. In addition, the building officer cataloged all stormwater structures, noting necessary repairs. The Village is working with Cuba Township and potentially other contractors to make annual incremental repairs to the storm sewer system.				

Mitigation Action #5: Where a	appropriate, suppor	t retrofitting, purchasir	ng, or relocating st	ructures in hazard-p	prone areas to	
prevent future damage. Give	priority to propertie	es with exposure to repo	etitive losses.	1		
Lead Agency/Department	Supporting	Estimated Cost:	Potential	Estimated	Hazard(s)	
Organization:	Agencies/	High	Funding	Projected	Mitigated:	
Village Administration	Organizations:		Source:	Completion	All	
			FEMA Hazard	Date:		
			Mitigation	Long-term		
			Grants, BRIC,	(depending on		
			HMGP, FMA	funding)		
Year Initiated		2014				
Applicable Jurisdiction		Village of South Barrir	ngton			
Applicable Goal		1,2,3	1,2,3			
Applicable Objective		7,13				
Cost Analysis (Low, Medium, High)		High				
Priority and Level of Importance (Low,		Medium				
Medium, High)						
Benefits of the Mitigation Pro	ject (Loss	High				
Avoided or Issue Being Mitigate	ed)					
Action/Implementation Plan	and Project	No known structures in bazard-prone areas				
Description:						
Actual Completion Date or Ongoing Indefinite						
Project Status & Changes in Priority						
Completion status legend:						
N = New; I = In Progress Toward Completion;		2023: Under consider	ation by the Village	• however there are	fow if any	
O = Ongoing Indefinitely; C = Project Completed;		2023. Under consideration by the vittage; nowever, there are tew, it any,			evv, il ally,	
R = Want Removed from Annex	x; X = No Action	properties meeting this type of identification.				
Taken/Delayed						

Action S5.6

Mitigation Action #6: Continue to support the countywide actions identified in this plan.

Lead Agency/Department	Supporting	Estimated Cost:	Potential	Estimated	Hazard(s)	
Organization:	Agencies/	LOW	Funding	Projected	Mitigated:	
Village Administration	Organizations:		Source:	Completion	All	
			General Fund	Date:		
				Short- and Long-		
				term		
Year Initiated		2014				
Applicable Jurisdiction		Village of South Barrin	gton			
Applicable Goal		1,5				
Applicable Objective		All				
Cost Analysis (Low, Medium, High)		Low				
Priority and Level of Importance (Low,		Llich				
Medium, High)		nign				
Benefits of the Mitigation Project (Loss		Medium				
Avoided or Issue Being Mitigate	ed)	Medium				
Action/Implementation Plan	and Project					
Description:						
Actual Completion Date or O	ngoing Indefinite					
Project Status & Changes in Priority						
Completion status legend:						
N = New; I = In Progress Toward Completion;		0				
O = Ongoing Indefinitely; C = Project Completed;		2023: Support for countywide actions is ongoing.				
R = Want Removed from Annex; X = No Action						
Taken/Delayed						

Mitigation Action #7: Actively participate in the plan maintenance strategy identified in this plan.					
Lead Agency/Department Organization: EMRS, Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: Low	Potential Funding Source: General Fund	Estimated Projected Completion Date: Short-term	Hazard(s) Mitigated: All
Year Initiated		2014			

Applicable Jurisdiction	Village of South Barrington		
Applicable Goal	1,5		
Applicable Objective	3,4,6		
Cost Analysis (Low, Medium, High)	Low		
Priority and Level of Importance (Low,	High		
Medium, High)			
Benefits of the Mitigation Project (Loss	Madium		
Avoided or Issue Being Mitigated)			
Action/Implementation Plan and Project	Reporting as well as any other required participation as necessary.		
Description:			
Actual Completion Date or Ongoing Indefinite			
Project Status & Changes in Priority			
Completion status legend:			
N = New; I = In Progress Toward Completion;	0		
O = Ongoing Indefinitely; C = Project Completed;	2023: Continuing active participation in plan maintenance strategy		
R = Want Removed from Annex; X = No Action			
Taken/Delayed			

Mitigation Action #8: Consider participation in incentive-based programs such as the Community Rating System (FEMA						
Floodplain Program), Tree City, and StormReady (National Weather Service)						
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: Low	Potential Funding Source: General Fund	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: All	
Year Initiated 2014			·			
Applicable Jurisdiction		Village of South Barri	ngton			
Applicable Goal		1,2,3,5,6				
Applicable Objective		3, 4, 5, 6, 7, 9, 10, 11	, 13			
Cost Analysis (Low, Medium, High) Low						
Priority and Level of Importance (Low, Medium, High)		Medium				

Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)	Medium
Action/Implementation Plan and Project	Village Board has authorized participation in Tree City. Application is being
Description:	formulated.
Actual Completion Date or Ongoing Indefinite	
Project Status & Changes in Priority	
Completion status legend:	
N = New; I = In Progress Toward Completion;	0
O = Ongoing Indefinitely; C = Project Completed;	2023: Tree City recognition has been achieved beginning in 2019.
R = Want Removed from Annex; X = No Action	
Taken/Delayed	

Mitigation Action #9: Maintain good standing under the National Flood Insurance Program by implementing programs that meet or exceed the minimum NFIP requirements. Such programs include enforcing an adopted flood damage prevention ordinance, participating in floodplain mapping updates, and providing public assistance and information on floodplain requirements and impacts.						
Lead Agency/DepartmentSupportingEstimated Cost:PotentialEstimatedHazard(s)						
Organization:	Agencies/	Low	Funding	Projected	Mitigated:	
Village of South Barrington	Organizations:		Source:	Completion	Flooding	
Building Department			General Fund	Date:		
				Ongoing		
Year Initiated		2014				
Applicable Jurisdiction		Village of South Barrington				
Applicable Goal		1,2,5				
Applicable Objective		4,6,9				
Cost Analysis (Low, Medium,	High)	Low				
Priority and Level of Importance (Low, Medium, High)		High				
Benefits of the Mitigation Pro Avoided or Issue Being Mitigate	Medium					
Action/Implementation Plan and Project Description: Continuing to participate in the National Flood Insurance Program.			gram.			

Actual Completion Date or Ongoing Indefinite	
Project Status & Changes in Priority	
Completion status legend:	
N = New; I = In Progress Toward Completion;	0
O = Ongoing Indefinitely; C = Project Completed;	2023: Actively participating in the National Flood Insurance Program.
R = Want Removed from Annex; X = No Action	
Taken/Delayed	

Mitigation Action #10: Where feasible, implement a program to record high water marks following high-water events.						
Lead Agency/Department	Supporting	Estimated Cost:	Potential	Estimated	Hazard(s)	
Organization:	Agencies/	Medium	Funding	Projected	Mitigated:	
Village Administration	Organizations:		Source:	Completion	Flooding;	
			General Fund,	Date:	Severe	
			FEMA Public	Long Term	Weather	
			Assistance			
			(PA)			
Year Initiated		2014	• • •			
Applicable Jurisdiction	Village of South Barrington					
Applicable Goal		1,2,5				
Applicable Objective		3,6,9				
Cost Analysis (Low, Medium	, High)	Medium				
Priority and Level of Importa	nce (Low,	Modium				
Medium, High)						
Benefits of the Mitigation Pro	o ject (Loss	Madium				
Avoided or Issue Being Mitigat	ed)	Mealum				
Action/Implementation Plan	and Project	Heavy rains have been experienced this past year. Surface flooding has been				
Description:		noted.				
Actual Completion Date or O	ngoing Indefinite					
Project Status & Changes in	Priority	0				
Completion status legend:		0 2022: This setion will	be considered for f	utura implementatio	n Maathar	
N = New; I = In Progress Toward Completion;		2023. This action will be considered for future implementation. Weather			n. weather	
O = Ongoing Indefinitely; C = Project Completed;		station installation can also assist with weather data, specifically for fainfall.				

R = Want Removed from Annex; X = No Action	
Taken/Delayed	

Mitigation Action #11: Integrate the hazard mitigation plan into other plans, programs, or resources that dictate land use or redevelopment.					
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: Medium	Potential Funding Source: General Fund	Estimated Projected Completion Date: Short-term and ongoing	Hazard(s) Mitigated: All
Year Initiated		2014			
Applicable Jurisdiction		Village of South Barrington			
Applicable Goal		1,5			
Applicable Objective		3,4,6,10,13			
Cost Analysis (Low, Medium,	High)	Low			
Priority and Level of Importance (Low, Medium, High)		High			
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)		Medium			
Action/Implementation Plan and Project Description:		Village Comprehensive Plan has been updated and presented to the Village Plan Commission. The Plan Commission has recommended approval to the Village Board. Final preparation is pending for Village Board approval.			
Actual Completion Date or O	ngoing Indefinite				
 Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed 		O 2023: The hazard mitigation plan will be integrated into other plans during routine updates of strategies, programs, and resources applicable to land use redevelopment. The Village updated the Comprehensive Plan in 2023.			

Mitigation Action #12: Secure Agreements for Back-Up Water Supply					
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: \$5,650 bottled water/day \$3 million Lake Michigan Water	Potential Funding Source: General Fund	Estimated Projected Completion Date: Mid to Long- Term / 2019	Hazard(s) Mitigated: All
Year Initiated	I	2019		I	
Applicable Jurisdiction		Village of South Barrin	gton		
Applicable Goal		1,2,3,5			
Applicable Objective		1			
Cost Analysis (Low, Medium, High)		Medium—The project could be implemented with existing funding but would require a re-apportionment of the budget or a budget amendment, or the cost of the project would have to be spread over multiple years.			
Priority and Level of Importance (Low, Medium, High)		High			
Benefits of the Mitigation Pro Avoided or Issue Being Mitigate	ject (Loss ed)	Maintaining an alternate water supply if system is interrupted. High—Project will provide an immediate reduction of risk exposure for life and property.			
Action/Implementation Plan and Project Description:		The Village is active in securing agreements to establish a water supply in the event of a service disruption. By having such arrangements in place, the Village will be able to actively address related circumstances such as a natural disaster.			
Actual Completion Date or O	ngoing Indefinite				
Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed		O 2023: The Village has i suppliers (short-term NSMJAWA (long-term)	dentified and cont solution). Lake Mic solution) is being s	acted emergency bot higan water allocatio tudied.	tled water n from IDNR and

Mitigation Action #13: Install a Tornado warning system (siren), create mapping and maintain channels, and execute						
preemptive large tree trimm	ing.					
Lead Agency/Department	Supporting	Estimated Cost:	Potential	Estimated	Hazard(s)	
Organization:	Agencies/	\$300,000; High	Funding	Projected	Mitigated:	
Village Administration	Organizations:		Source:	Completion	Dam/Levee	
			BRIC, HMGP	Date:	Failure,	
				Short to Mid-	Flooding, High	
				Term	Wind, Tornado,	
					Widespread	
					Power Outage	
Year Initiated		2019		·		
Applicable Jurisdiction		Village of South Barri	ington			
Applicable Goal		1,2,3,4,5,6				
Applicable Objective		5, 13				
Cost Analysis (Low, Medium)	, High)	High				
Priority and Level of Importa	nce (Low,	High				
Medium, High)						
		Early warning				
Benefits of the Mitigation Pro	o ject (Loss	Property damage				
Avoided or Issue Being Mitigat	ed)	Avoid the risk of injur	У			
		High				
Action/Implementation Plan	and Project	With many heavy rain	n events, it was dif	ficult to quantify app	ropriate measures	
Description:	anu Project	to mitigate the impacts based on the available information. With our own				
		weather data, we will be able to quantify the localized impact.				
Actual Completion Date or C	ngoing Indefinite					
Project Status & Changes in	Priority	0 2022: Installing a Tor	node werping evet	om (oiron). The villag	a has manning	
Completion status legend:		2023. Instatting a for		em (Siren). The village		
N = New; I = In Progress Towar	d Completion;	capability and actively maintains drainage channels. Preemptive extensive tree				
O = Ongoing Indefinitely; C = Project Completed;		trimming has been incorporated into a 2022 tree inventory conducted by				
R = Want Removed from Anne	x; X = No Action	protessional arborists. Village practice has been to address immediate tree				
Taken/Delayed		trimming issues that encroach into roadways or create other hazardous				
		conditions.				

Mitigation Action #14: Execut	Mitigation Action #14: Execute and maintain a contract for monthly clearance of storm drain inlets.				
Lead Agency/Department	Supporting	Estimated Cost:	Potential	Estimated	Hazard(s)
Organization:	Agencies/	\$5,000; Low	Funding	Projected	Mitigated:
Village Administration	Organizations:		Source:	Completion	Flooding, Ice
	Cuba Township		General Fund	Date:	Storms
				Ongoing	
Year Initiated		2019			
Applicable Jurisdiction		Village of South Barrin	gton		
Applicable Goal		1,2			
Applicable Objective		3, 9			
Cost Analysis (Low Madium	High)	Low—The project coul	d be funded under	the existing budget. T	he project is part
Cost Analysis (Low, Medium, High)		of or can be part of an	ongoing existing p	rogram.	
Priority and Level of Importance (Low,		Modium			
Medium, High)		Medium			
		Will prevent flooded streets, property damage and potentially hazardous			
Ropofite of the Mitigation Pro	inct (Loss	roadways.			
Avoided or Issue Being Mitigat		Medium—Project will have a long-term impact on the reduction of risk			
Avolued of issue being Philipate	su)	exposure for life and property, or project will provide an immediate reduction in			
		the risk exposure for property.			
		Recent weather condi	tions caused circu	mstances where storr	n water inlets
		were blocked and rainwater flooded streets. The flooded streets created			
Action/Implementation Plan	and Project	hazardous conditions for traffic, particularly when followed by freezing			
Description:		conditions. To address the issue it was determined that a monthly schedule be			
		put in place of making sure the storm inlets are clear. Primary areas where this			
		has occurred, are in subdivisions still under construction.			
Actual Completion Date or O	ngoing Indefinite				
Project Status & Changes in I	Priority				
Completion status legend:		0			
N = New; I = In Progress Towar	d Completion;	2023: The Village is maintaining a contract to clear storm drain inlets.			
O = Ongoing Indefinitely; C = P	roject Completed;				

R = Want Removed from Annex; X = No Action	
Taken/Delayed	

Mitigation Action #15: Secure	e trees and relocate	Mitigation Action #15: Secure trees and relocate invasive species.					
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: \$5,000; Low	Potential Funding Source: General Fund	Estimated Projected Completion Date: Ongoing	Hazard(s) Mitigated: Flooding		
Year Initiated		2019					
Applicable Jurisdiction		Village of South Barrington					
Applicable Goal		1,2,3					
Applicable Objective		13					
Cost Analysis (Low, Medium,	Im, High) Low—The project could be funded under the existing budget. The project of or can be part of an ongoing existing program.			The project is part			
Priority and Level of Importance (Low, Medium							
Benefits of the Mitigation Pro Avoided or Issue Being Mitigate	Prevention of Creek flooding Medium—Project will have a long-term impact on the reduction of risk exposure for life and property, or project will provide an immediate reduction in the risk exposure for property.						
Action/Implementation Plan Description:	Throughout the Village's Conservancy Passive Park Area it was noted that wildlife was actively removing trees and utilizing the trees to dam up the area. Not only were trees being lost but the potential for increased damage due to flooded areas was a possibility. To respond to this situation, the Village contracted with a licensed wildlife manager and relocated the animals involved. Trees were then secured to discourage wildlife from downing the trees.						
Actual Completion Date or O	ngoing Indefinite						
Project Status & Changes in	Priority	0					

Completion status legend:	2023: The Village has installed a Weather Station on Village Hall property
N = New; I = In Progress Toward Completion;	(2019) and continues to utilize the information supplied by the station.
O = Ongoing Indefinitely; C = Project Completed;	
R = Want Removed from Annex; X = No Action	
Taken/Delayed	

Mitigation Action #16: Install of a Local Weather Station						
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: \$1,000; Low	Potential Funding Source: SHSP	Estimated Projected Completion Date:	Hazard(s) Mitigated: Flooding, Lightning,	
				Ongoing	Snow, Extreme Cold	
Year Initiated		2019				
Applicable Jurisdiction		Village of South Barrington				
Applicable Goal		1,2,3,4,5				
Applicable Objective		5,6				
Cost Analysis (Low, Medium, High)		Low—The project could be funded under the existing budget. The project is part of or can be part of an ongoing existing program.				
Priority and Level of Importance (Low, Medium, High)		Medium				
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)		Accurate Local Weather Information High—Project will provide an immediate reduction of risk exposure for life and property.				
Action/Implementation Plan and Project Description:		After experiencing some extreme weather events, it was noticed that weather service reports could have a significant variance in the immediate region. To address this situation, the Village elected to install its own weather station as recommended by the operating company of the water and sewer facilities. With this equipment in place the Village has a more accurate read on such items as local rainfall that can in turn be reported to residents and other interested parties.				
Actual Completion Date or O	ngoing Indefinite					

Project Status & Changes in Priority	
Completion status legend:	
N = New; I = In Progress Toward Completion;	
O = Ongoing Indefinitely; C = Project Completed;	0
R = Want Removed from Annex; X = No Action	
Taken/Delayed	

Mitigation Action #17: Update of the Village Emergency Management Plan							
Lead Agency/Department	Supporting	Estimated Cost:	Potential	Estimated	Hazard(s)		
Organization:	Agencies/	\$20,000	Funding	Projected	Mitigated:		
Village Administration	Organizations:		Source:	Completion	All		
			General Fund	Date:			
				Short-term			
Year Initiated	Year Initiated 2022						
Applicable Jurisdiction		Village of South Barrington					
Applicable Goal		1,2,5					
Applicable Objective		1,5					
		Low—The project could be funded under the existing budget. The project is part					
Cost Analysis (Low, Medium)	Cost Analysis (Low, Medium, High)		of or can be part of an ongoing existing program.				
Priority and Level of Importance (Low, Medium, High)		High					
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)		Strategic Plan to implement in the event of a natural hazard. High—Project will provide an immediate reduction of risk exposure for life and property.					
Action/Implementation Plan and Project Description:		Emergency Management Plan development utilizing an outside consultant.					
Actual Completion Date or O							
Project Status & Changes in	Priority						
Completion status legend:		0					
N = New; I = In Progress Toward Completion;							
O = Ongoing Indefinitely; C = Project Completed;							

R = Want Removed from Annex; X = No Action	
Taken/Delayed	

Mitigation Action #18: Weather Spotter Training						
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: \$2,000	Potential Funding Source: SHSP, HSGP	Estimated Projected Completion Date: Ongoing	Hazard(s) Mitigated: All	
Year Initiated		2023				
Applicable Jurisdiction		Village of South Barrington				
Applicable Goal		2,3,4,5				
Applicable Objective		1,6				
Cost Analysis (Low, Medium, High)		Low—The project could be funded under the existing budget. The project is part of or can be part of an ongoing existing program.				
Priority and Level of Importance (Low, Medium						
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)		Trained citizens would assist with early warning in regard to serious weather conditions (i.e. tornados). Low—Long-term benefits of the project are difficult to quantify in the short term.				
Action/Implementation Plan and Project Description:		During discussions regarding emergency management planning, training volunteer citizens to be "storm watchers" was considered as a benefit for future preparations and emergency management.				
Actual Completion Date or O	Actual Completion Date or Ongoing Indefinite					
 Project Status & Changes in Priority Completion status legend: N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed 		0				

Completed Actions

Completed Mitigation Actions - An archive of all identified and completed projects, including completed actions since 2014.

Completed Action Items

Emergency Operations Center at Village Hall

Future Needs to Better Understand Risk/Vulnerability

Receiving training to understand the mitigation grant application process better. Training on assessing potential hazards and threats, including methods to circumvent and prepare against.

Additional Comments

None at this time.

Hazard Mapping





VILLAGE OF SOUTH BARRINGTON

PEAK GROUND ACCELERATION FOR A 100 YEAR EARTHQUAKE EVENT

Mercalli Scale, Potential Shaking II-III Weak

Data provided by the USGS Earthquake Hazards Program and Cook County.

Probabilistic seismic-hazard maps were prepared for the conterminous United States for 2014 portraying peak horizontal acceleration and horizontal spectral response acceleration for 0.2- and 1.0-second periods with probabilities deceedance of 10 percent in 50 years and 2 percent in 50 years. All of the maps were prepared by combining the hazard derived from spatially amothed combining the hazard derived from spatially smoothed historical seismicity with the hazard from fault-specific sources. The acceleration values contoured are the random horizontal component. The reference site condition is firm rock, defined as having an average shear-wave velocity of 78 of white hog 30 meters corresponding to the boundary between NEHRP (National Earthquake Hazards Reduction program) site classes B and C.

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0.7

.

1.05

1.4 Miles



VILLAGE OF SOUTH BARRINGTON

NATIONAL EARTHQUAKE HAZARD REDUCTION PROGRAM (NEHRP) SOIL CLASSIFICATION

TYPE

C - Very Dense Soil, Soft Rock



F- Site Specific Evaluation

Data provided by the Illinois State Geological Survey and Cook County.

The Central United States Earthquake Consortium (CUSEC) State Geologies produced a regional Soil Ste Classes map (NEHRP Soil Profile Type Map), a Liquetaction Sueceptibility Map and a Soil Response Map for the 8 states to be used in the FEMA New Madrid Catastrophe Planning Initiative Phase II vork. The USGS Geologic Investigation Series 1.2789 Map of Sufricial Deposits and Materials in the Eastern and Central United State (East of 102 degrees West Longitude) by David S. Fulleron, Charles A. Bush and Jean N. Pennell (2003) was the base map used for this work. Each State Geological Survey produced its own state map version of the Soil Site Class and Liquefaction susceptibility maps. The procedures outlined in the NEHRP provisions (Building Seismic Safety Council, 2004) and the 2003 International Building Codes (International Code Council, 2002) were followed to produce the soil site class mays. CUSEC State Geologiets used the entire column and the difference in shear wave velocity of the soils in comparison to the bedrock which lifuences much of the amplication.

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1.05

1.4 Miles

0.7

0 0.175 0.35

DISCLAIMER: The Cook County MWRDGC 100-year Inundation Map is provided to show general flood risk information regarding floodplains and inundation areas. This map is not regulatory. Official FEMA Flood Insurance Study information and regulatory maps can be obtained from http://www.fema.gov.





VILLAGE OF SOUTH BARRINGTON

LIQUEFACTION SUSCEPTIBILITY

LIQUEFACTION SUSCEPTIBILITY



very low

Data provided by the Illinois State Geological Survey and Cook County.

The Central United States Earthquake Consortium (CUISEC) State Geologies produced a regional Soll Site Class map (NEHRP Soll Profile Type Map), a Liquefactor. Succeptibility Map and a Soll Response Map for the 8 states to be used in the FEMA New Madrid Catastrophic Planning Initiative Phase II work. The USGS Geologic Investigation Series 1.2789 Map of Surficial Deposits and Materials in the Eastern and Central United State (East of 102 degrees West Longitude) by David S. Fulleron, Charles A. Bush and Jean N. Pennell (2003) was the base map used for this work. Each State Geological Survey produced its own state map version of the Soll Site Class and Liquefaction Susceptibility maps. The procedures outlined is the NEHRP provisions (Building Seismic Safety Council, 2004) and the 2003 International Building Codes (International Code Council, 2002) were followed to produce the soil site class may EUSEC State Geologists used the entire column of soils material down to bedrock and di nd in clinucle any bedrock in the calculation of the average shear wave velocity for the column, since it is the soil Column and the difference in shear wave velocity of the soils in comparison to the bedrock which influences much of the amplication.

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