# **Elmwood Park**

### Hazard Mitigation Plan Point of Contact

Primary Point of Contact	Alternate Point of Contact	Alternate Point of
Trimary Forme of Contact	Attender om of oontact	Contact
Mike Terzo, Fire Chief	Kevin Flaherty, Deputy Fire	Kim Parrilli, Assistant
7 Conti Parkway,	Chief	Village Manager
Elmwood Park, IL. 60707	7 Conti Parkway	11 Conti Parkway,
(708) 452-3933	Elmwood Park, IL 60707	Elmwood Park, IL. 60707
mterzo@elmwoodpark.or	708 452-3934	(708) 452-3914
g	kflaherty@elmwoodpark.or	kparrili@elmwoodpark.or
	g	g

### **Jurisdiction Profile**

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

#### Date of Incorporation: 1914

**Current Population:** The 2020 U.S. Census population was 24,522. The 2022 U.S. Census estimate indicated the population was 23,604.

**Population Growth:** The overall population has decreased 2.72 percent between 2018 and 2022.

**Location and Description:** The Village of Elmwood Park is location in the western Chicago metropolitan area, approximately 9 miles northwest of the Chicago city center. The Village is bordered by the City of Chicago to the north and east, the Village of River Forest to the south and the Village of River Grove to the west. The Village is 6 miles southeast of O'Hare International airport, and centered between three major interstates: I-90 to the northeast, I-294 to the west, and I-290 to the south. The Village elevation is 643 ft. Population density is 13,046 people per square mile. The Village is home to a high school, middle school, two elementary schools, and an early childhood center.

**Brief History:** Historical maps of the area show Native American village sites located in area that is now the Elmwood Park/River Grove area. During the 1800s, this southeast corner of Leyden Township was called Ellsworth, and then Orson. The area was included in settlement area around Fort Dearborn and was used as farmland in the early 19th century. Several brooks crisscross the land, which during flooding in the spring would form a series of four "lakes." Further development of the area came from land grants given to local chiefs who befriended European settlers and other settlers in the mid -19th century. Around 1870, railroad rights granted by local landowners created urbanization leading to the development of the Grand and Harlem Area. A real estate boom occurred at the turn of the 20th century in the area, leading to the purchase and development of the Westwood subdivision in 1926. Another rapid building expansion occurred after the end of World War II. The community has long maintained a large Italian-American population, with a more recent influx of Polish-American and Hispanic residents.

**Climate:** The nearest weather station for Elmwood Park is at O'Hare International Airport. Temperatures reach an average low of 22°F in January and an average high of 73<sup>®</sup>F in July. Average monthly rainfall is 3", with a peak of 4.6" average monthly rainfall in August. Average yearly total rainfall is 36.27". Weather is typical of the Ohio Valley weather region, with periods of drought and heavy rainfall. Prevailing winds are from the west at 12 mph from December through March, northeast at 11 mph April through June, southwest at 9 mph in July and August, and from the south at 10 mph September through November. Annually, average wind prevails from the west, with an average of 11 mph and a peak wind gust of 84 mph. The relative humidity typically ranges from 44% to 91% over the course of the year, rarely dropping below 25% and reaching as high as 100%. May is typically the month with the lowest humidity, and August is the most humid.

**Governing Body Format:** The Village of Elmwood Park is governed by a 6 member board of trustees, with an elected Village President and Clerk. Administration also includes a Village Attorney, Village Manager, Village Collector (Village Clerk may act as the Collector), Finance Director, and Assistant to the Village President/Personnel Administrator. This body will assume the responsibility for the adoption and implementation of this plan. There are also provisions for a Village Engineer, Village Cable Officer, and an Ethics Advisor. There are 10 departments: Code Administration, Finance Department, Fire Department, Health Services, Parks and Recreation, Police Department, Public Works, Senior Programs Village Hall Services, and Water Department. Special committees, commissions, and task forces include: Board of Local Improvements; Parks and Recreation Board; Senior Citizen Advisory Council; Ethics Commission; Emergency Telephone System Board; Board of Fire and Police Commission; Plan, Zoning, and Development Commission; and Youth Commission. A Traffic and Safety Commission has also been proposed.

**Development Trends:** Anticipated development levels for Elmwood Park are moderate, consisting of both residential and retail development. The majority of recent development has been infill. There has been a focus on attracting more retail to its corridors. The Village of Elmwood Park adopted a comprehensive plan in 2013. The plan focuses on issues of the greatest concern to the community. Village actions such as those relating to land use allocations, zoning, design review, redevelopment and capital improvements must be consistent with such a plan. Future growth and development in the Village will be managed as identified in the general plan. In 2018, approval was given to start 2 new residential developments and also to transform the old Sears Automotive site on Harlem Ave.

**Changes in Community Priorities**: Changes regarding the previous priorities mainly related to flood mitigation and overland flooding issues. As these have been addressed the priorities will now include items addressed by the updated mitigation actions.

#### **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 *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, Ordinanc	es & Requirem	ients			
Building Code	Yes	No	No	Yes	Adopted the International Residential Code (latest edition)
Zonings	Yes	No	No	Yes	Village of Elmwood Park Zoning Ordinance last updated 7/18/11
Subdivisions	No	No	No	No	
Stormwater Management	No	No	Yes	Yes	State regulates industrial activity from Construction sites 1 acre or larger under section 402 CWA.
Post Disaster Recovery	No	No	No	No	
Real Estate Disclosure	Yes	No	Yes	Yes	(765 ILCS 77/) Residential Real Property Disclosure Act. Chapter 41A of the Code of the Village of Elmwood Park June 2000
Growth Management	No	No	No	No	
Site Plan Review	No	No	No	No	
Public Health and Safety	Yes	No	No	No	Chapter 25 "Health & Sanitation" of the Code of the Village of Elmwood Park, May 2002
Environmental Protection	No	No	No	No	

Planning Docume	ents				
General or Comprehensive Plan	Yes	No	No	No	Comp Plan adopted April 1, 2013
Is the plan equipp	ed to provide i	ntegration to this n	nitigation plan?		Yes
Floodplain or Basin Plan	No	No	No	No	
Stormwater Plan	No	No	No	No	
Capital Improvement Plan	No	No	No	No	
What types of cap	ital facilities d	oes the plan addre	ss?		N/A
How often is the p	lan revised/up	odated?			N/A
Habitat Conservation Plan	No	No	No	No	
Economic Development Plan	No	No	Yes	Yes	The Economic Development Commission is charged with reviewing all economic development related programs and incentives including tax incentives offered through the Cook County 6b program.
Shoreline Monogomont	No	No	No	No	
Management Plan	NU	No	No	NO	
Response/Recov	erv Planning				1
Comprehensive Emergency Management Plan	Yes	No	Yes	Yes	Elmwood Park Emergency Operations Plan
Threat and Hazard Identification and Risk Assessment	No	No	Yes	No	Cook County EMRS Preparing THIRA
Terrorism Plan	No	No	Yes	Yes	Cook County EMRS
Post-Disaster Recovery Plan	No	No	No	No	

Continuity of Operations Plan	No	No	Yes	No	Cook County EMRS
Public Health Plans	Yes	No	Yes	No	Tripcom Pharmaceutical Distribution & 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	No	
State Sponsored Grant Programs	Yes	
Development Impact Fees for Homebuyers or Developers	No	
Other	Yes	

TABLE: ADMINISTRATIVE AND TECHNICAL CAPABILITY			
Staff/Personnel Resources	Available?	Department/Agency/Position	
Planners or engineers with knowledge of land development and land management practices	Yes	Christopher B. Burke Engineering (CBBEL), Village Engineer	
Engineers or professionals trained in building or infrastructure construction practices	Yes	Building Commissioner, Village of Elmwood Park	
Planners or engineers with an understanding of natural hazards	Yes	CBBEL	
Staff with training in benefit/cost analysis	Yes	Finance Director, Village of Elmwood Park	
Surveyors	Yes	CBBEL	
Personnel skilled or trained in GIS applications	Yes	Cook County GIS Consortium	
Scientist familiar with natural hazards in local area	No		
Emergency manager	Yes	Fire Chief	
Grant writers	Yes	CBBEL	

TABLE: NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE	
What department is responsible for floodplain management in your jurisdiction?	Public Works
Who is your jurisdiction's floodplain administrator? (department/position)	Director of Public Works - Village Engineer
Are any certified floodplain managers on staff in your jurisdiction?	Yes, through CBBEL

What is the date of adoption of your flood damage prevention ordinance?	
When was the most recent Community Assistance Visit or Community	02/13/1996
Assistance Contact?	02/13/1990
Does your jurisdiction have any outstanding NFIP compliance violations	Νο
that need to be addressed? If so, please state what they are.	NO
Do your flood hazard maps adequately address the flood risk within your	Yes
jurisdiction? (If no, please state why)	163
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; Undecided
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 community's Floodplain Administrator is a Certified Floodplain Manager (CFM).

#### 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:

10-6 Definitions

STRUCTURE

The results of a man-made change to the land constructed on or below the ground, including the construction, reconstruction or placement of a building or any addition to a building; installing a manufactured home on a site; preparing a site for a manufactured home or installing a travel trailer on a site for more than 180 days.

#### SUBSTANTIAL IMPROVEMENT

Any repair, reconstruction or improvement of a structure, the cost of which equals or exceeds 50% of the market value of the structure either: a) before the improvement or repair is started, or b) if the structure has been damaged, and is being restored, before the damage occurred. For the purposes of this definition 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 structure. The term does not, however, include either: a) 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 b) any alteration of a structure listed on the National Register of Historic Places or a state inventory of historic places.

Their ordinance did not include substantial improvement / substantial damage rule provisions; future updates will consider inclusion of these rules as applicable and as appropriate.

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	ISO 3	July 26, 2011
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 having experienced and knowledgeable grant writers to research additional funding opportunities. In addition to specialized engineers to access and oversee plans for grade separation of road and rail traffic in town.

#### 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 hazards, goals, and actions of the Hazard Mitigation Plan will be considered in the next update of the Comprehensive Plan.

#### 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: 15 (13 Single Family, 2 Two-Four Family Residence)
- Number of FEMA-Identified Severe Repetitive Loss Properties: 1 (1 Two-Four Family)
- Number of Repetitive Flood Loss/Severe Repetitive Loss Properties: 0

#### Federal Disasters Declared

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
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

Severe Weather	-	9/25/2018	-
Severe Weather and Flooding		6/24/2014	1.18 inches of rain in 35 minutes
Severe Weather and Flooding		7/23/2011	In Elmwood Park, several feet of water covered Oak Leaf Avenue with numerous cars stranded in the flood waters. About eight cars were stalled out along 80th Avenue.
Severe Weather- Overland Flooding	DR-1960	1/2011	\$41,444.97
High Winds		6/18/2010	Trees and tree limbs blown down
Extreme Cold		1/16/2010	An 82 year old male died from cold exposure in Elmwood Park in Cook County on January 16th. Low temperatures were in the single digits.
Severe Weather- Overland Flooding	DR-1800	9/2008	\$52,161.28
Severe Weather- Overland Flooding	DR-1729	8/2007	\$113,684.00
Extreme Heat		1996	4 days of heat indices above 100 degrees with one heat related death in Elmwood Park

#### 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.

*Flood:* Previously, during heavy (100 yr.) rain events the community has experienced street flooding on 73rd Ave and Bloomingdale and various streets where sewers are covered with debris. In 2011, Thunderstorms produced torrential rainfall across central and southeast Cook County with rainfall rates between 2 and 4 inches per hour which caused widespread flash flooding. In Elmwood Park, several feet of water covered Oak Leaf Avenue with numerous cars stranded in the flood waters. About eight cars were stalled out along 80th Avenue. In 2014, An isolated thunderstorm dropped south across Cook County producing heavy rains that resulted in isolated flooding. A CoCoRaHS observer measured 1.18 inches in 35 minutes.

*Extreme Heat:* The Village's elderly population is susceptible to the impacts of extreme heatinduced power outages. In 1996, three days of heat indices above 100 degrees, contributed to a death in Elmwood Park.

*Earthquake:* Our jurisdiction has a unique and vulnerable grade level rail/road crossing that transits people and goods through the Midwest USA.

*Lightning:* Previously, the Village's power lines were affected by lightning strikes.

*Flooding:* Low lying land and roadways along Thatcher Ave. are prone to riverine/creek flooding during Des Plaines River flood level incidents.

*High Winds:* The Village of Elmwood Park has experienced loss of power as a result of downed trees and power lines from high winds. In 2018, a tree was blown down through a fence.

**Snow:** The community experiences difficulty maintaining the safety of the streets following heavy snow events.

*Blizzards:* The community struggles to remove snow following blizzards.

*Extreme Cold:* Previously, the Village has experienced frozen pipes during extreme cold events. In 2011, an 82 year old male died from cold exposure in Elmwood Park in Cook County on January 16th. Low temperatures were in the single digits.

*Ice Storms:* The community has experienced downed power lines and fallen tree limbs after ice storms.

*Wildfire Smoke:* Increased elderly and respiratory compromised population negatively impacted by poor air quality due to smoke from wildfire outbreaks.

Indicator	Number	Percent
Families in poverty	239	4%
People with disabilities	2,167	9%
People over 65 years	3,620	14.9%
People under 5 years	1,087	4.5%
People of color	10,229	42.1%
Black	533	2.2%
Native American	12	0%
Hispanic	8,291	34.2%
Difficulty with English	1,895	8.2%
Households with no car	684	7.4%
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)	Increased	
Severe Weather (Extreme Heat, Lightning, Hail,	Remained the Same	
Fog, High Wings)	Remained the Same	
Severe Winter Weather (Ice Storms, Heavy Snow,	Remained the Same	
Blizzards, Extreme Cold)	Remained the Same	
Tornado	Increased	
Wildfire (Wildfire Smoke)	Increased	

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)	Increase
Severe Weather (Extreme Heat, Lightning, Hail,	No Change is Anticipated
Fog, High Wings)	No onange is Anticipated
Severe Winter Weather (Ice Storms, Heavy Snow,	No Change is Anticipated
Blizzards, Extreme Cold)	No onalige is Anticipated
Tornado	Increase
Wildfire (Wildfire Smoke)	Increase

#### 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)	Increased	
Severe Weather (Extreme Heat, Lightning, Hail,	Remained the Same	
Fog, High Wings)	Remained the barne	
Severe Winter Weather (Ice Storms, Heavy Snow,	Remained the Same	
Blizzards, Extreme Cold)	Nemained the barne	
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)	Increase

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 anticipates that the following future major assets may be exposed or vulnerable to any of the natural hazards identified in this Hazard Mitigation Plan:

• A potential increase in elderly at risk population with addition of more senior residential housing structures. This population is at risk of exposure to extreme heat and poor air quality from wildfire smoke.

### 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	Tornado	
4	Drought	
5	Flood	
6	Earthquake	
7	Dam Failure	

# **New Mitigation Actions**

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

Lead	Supporting	Estimated	Potential	Estimated	Hazard(s)	
Agency/Department	Agencies/	Cost:	Funding Source:	Projected	Mitigated:	
Organization:	Organizations:	High	General Fund	Completion	Drought	
Department of Capital	Public Works /		State Special	Date:	Earthquake	
Improvements - Dino	Water		Funds	Ongoing		
Braglia, Superintendent	Reclamation		<b>Building Resilient</b>			
	District of		Infrastructure			
	Greater Chicago		and			
			Communities			
			(BRIC)			
			Community			
			Development			
			Block Grant			
			(CDBG)			
			FEMA Public			
			Assistance (PA)			
Year Initiated		2024				
Applicable Jurisdiction		Village of Elmwood Park				
			1,2,3,4,5,6			
Applicable Goal		1,2,3,4,5,6				
		1,2,3,4,5,6				
Applicable Goal	ım, High)					
Applicable Goal Applicable Objective		1,2,12,13 High				
Applicable Goal Applicable Objective Cost Analysis (Low, Mediu		1,2,12,13				
Applicable Goal Applicable Objective Cost Analysis (Low, Mediu Priority and Level of Impor	rtance (Low, Project (Loss	1,2,12,13 High				

Action/Implementation Plan and Project Description:	Upgrading existing water delivery systems to eliminate breaks and leaks. Replace vulnerable and leaking water supply system to decrease loss and negative environmental impact. Create water supply system infrastructure resilience.
Actual Completion Date or Ongoing Indefinite	
Project Status & Changes in Priority	
Completion status legend:	
<b>N</b> = New; <b>I</b> = In Progress Toward Completion;	Ν
<b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed;	Ν
<b>R</b> = Want Removed from Annex; <b>X</b> = No Action	
Taken/Delayed	

Lead	Supporting	Estimated	Potential	Estimated	Hazard(s)
Agency/Department	Agencies/	Cost:	Funding Source:	Projected	Mitigated:
Organization:	Organizations:	Low	General Fund	Completion	Wildfire
Elmwood Park Fire	Administration		Hazard Mitigation	Date:	(Wildfire
Department, Michael			Grant Program	Short-term	Smoke)
Terzo - Fire Chief			(HMGP)		
			<b>Building Resilient</b>		
			Infrastructure		
			and		
			Communities		
			(BRIC)		
			Community		
			Development		
			Block Grant		
			(CDBG)		
			FEMA Public		
			Assistance (PA)		

Year Initiated	2024
Applicable Jurisdiction	Village of Elmwood Park
Applicable Goal	1,2,4,5,6
Applicable Objective	2,5,8,12
Cost Analysis (Low, Medium, High)	Low
Priority and Level of Importance (Low, Medium, High)	Low
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	High
Action/Implementation Plan and Project	Evaluate and install, if needed, air quality monitors locally to alert at risk
Description:	populations of poor air quality conditions due to smoke from wildfires
Actual Completion Date or Ongoing Indefinite	
Project Status & Changes in Priority	
Completion status legend:	
N = New; I = In Progress Toward Completion;	Ν
<b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed;	Ν
<b>R</b> = Want Removed from Annex; <b>X</b> = No Action	
Taken/Delayed	

Mitigation Action #15: Protect Critical Facilities and Infrastructure					
Lead	Supporting	Estimated	Potential	Estimated	Hazard(s)
Agency/Department	Agencies/	Cost:	Funding Source:	Projected	Mitigated:
Organization:	Organizations:	High	General Fund	Completion	All
Village of Elmwood Park	Cook County		Private/Non-	Date:	
Administration - Skip	Department of		Profit Funds	Long-term	
Saviano - Village President	Transportation		State Special		
	and Highways		Funds		
	(CCDOTH),		Hazard Mitigation		
	Illinois		Grant Program		
	Department of		(HMGP)		
	Transportation		<b>Building Resilient</b>		
	(IDOT)		Infrastructure		

	and			
	Communities			
	(BRIC)			
	FEMA Public			
	Assistance (PA)			
Year Initiated	2026			
Applicable Jurisdiction	Village of Elmwood Park			
Applicable Goal	1,2,3,4,5,6			
Applicable Objective	1,2,4,7,8,12,13			
Cost Analysis (Low, Medium, High)	High			
Priority and Level of Importance (Low, Medium, High)	High			
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	High			
Action/Implementation Plan and Project Description:	Protect Critical Facilities and Infrastructure. Reduce potential damage to critical facilities and infrastructure from future seismic events through the evaluation and execution of a grade separation of the road/rail crossing at 7700 W. Grand Ave.			
Actual Completion Date or Ongoing Indefinite				
Project Status & Changes in Priority				
Completion status legend:				
N = New; I = In Progress Toward Completion;	Ν			
<b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed;				
<b>R</b> = Want Removed from Annex; <b>X</b> = No Action Taken/Delayed				

Mitigation Action #16: Reduce Urban Heat Island Effect					
Lead Agency/Department Organization:	Supporting Agencies/ Organizations:	Estimated Cost: Medium	Potential Funding Source:	Estimated Projected	Hazard(s) Mitigated:

Public Works Department, Peter Gunther - Director	General Fund Private/Non- Profit FundsCompletion Date:Severe 				
Year Initiated	2024				
Applicable Jurisdiction	Village of Elmwood Park				
Applicable Goal	1,2,4,5,6				
Applicable Objective	3,4,6,8,12,13				
Cost Analysis (Low, Medium, High)	Medium				
Priority and Level of Importance (Low, Medium, High)	Low				
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	Medium				
Action/Implementation Plan and Project	Reduce Urban Heat Island Effect by increasing tree plantings around				
Description:	buildings to shade parking lots and along public rights-of-way				
Actual Completion Date or Ongoing Indefinite					
Project Status & Changes in Priority					
Completion status legend:					
<b>N</b> = New; <b>I</b> = In Progress Toward Completion;	Ν				
<b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed; <b>R</b>					
= Want Removed from Annex; <b>X</b> = No Action					
Taken/Delayed					

Lead	Supporting	Estimated	Potential	Estimated	Hazard(s)	
Agency/Department Organization: Public Works Department - Peter Gunther Director	Agencies/ Organizations:	Cost: Medium	Funding Source: General Fund Hazard Mitigation Grant Program (HMGP) Building Resilient Infrastructure and Communities (BRIC) Community Development Block Grant (CDBG) FEMA Public Assistance (PA)	Projected Completion Date: Ongoing	Mitigated: Severe Weather (Extreme Heat, Lightning. Hail, Fog, High Winds) Severe Winter Weather (Ice Storm, Heavy Snow, Blizzards, Extreme Cold) Tornado	
Year Initiated		2024				
Applicable Jurisdiction		Village of Elmwood Park				
Applicable Goal		1,2,3,5				
Applicable Objective		1,2,5,6,12				
Cost Analysis (Low, Mediur		Medium				
Priority and Level of Importance (Low, Medium, High)		Medium				
Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)		High				
Action/Implementation Plan and Project Description:		-	s to Roadways by plannin ring capabilities. Procure	-		

	attachments to clear critical roadways of snow accumulation and storm related debris
Actual Completion Date or Ongoing Indefinite	
Project Status & Changes in Priority	
Completion status legend:	
N = New; I = In Progress Toward Completion;	N
<b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed;	
<b>R</b> = Want Removed from Annex; <b>X</b> = No Action	
Taken/Delayed	

Lead	Supporting	Estimated	Potential	Estimated	Hazard(s)
Agency/Department	Agencies/	Cost:	Funding Source:	Projected	Mitigated:
Organization:	Organizations:	High	General Fund	Completion	Drought
Capital Improvements	Public Works -	-	State Special	Date:	Earthquake
Department - Dino Braglia	Peter Gunther		Funds	Long-term	
Superintendent	Director		Hazard Mitigation		
			Grant Program		
			(HMGP)		
			<b>Building Resilient</b>		
			Infrastructure		
			and		
			Communities		
			(BRIC)		
			Community		
			Development		
			Block Grant		
			(CDBG)		
			<b>FEMA</b> Public		
			Assistance (PA)		

Year Initiated	2024
Applicable Jurisdiction	Village of Elmwood Park
Applicable Goal	1,2,3,5,6
Applicable Objective	2,6,7,12,13
Cost Analysis (Low, Medium, High)	High
Priority and Level of Importance (Low, Medium, High)	High
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	High
Action/Implementation Plan and Project Description:	Eliminate lead containing water distribution system components by direct replacement with lead free connections. Reduce toxic exposure to population and increase water system infrastructure resilience.
Actual Completion Date or Ongoing Indefinite	
<ul> <li>Project Status &amp; Changes in Priority</li> <li>Completion status legend:</li> <li>N = New; I = In Progress Toward Completion;</li> <li>O = Ongoing Indefinitely; C = Project Completed;</li> <li>R = Want Removed from Annex; X = No Action</li> <li>Taken/Delayed</li> </ul>	Ν

## **Ongoing Mitigation Actions**

During the 2024 update, these "ongoing" mitigation actions and projects were modified and/or amended, as needed.

Mitigation Action #5: Continue to support the countywide actions identified in this plan.					
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: Low	Potential Funding Source: General Fund	Estimated Projected Completion Date: Short- and Long- term	Hazard(s) Mitigated: All

Year Initiated	2014
Applicable Jurisdiction	Village of Elmwood Park
Applicable Goal	1,2,5
Applicable Objective	All
Cost Analysis (Low, Medium, High)	Low
Priority and Level of Importance (Low, Medium,	High
High)	
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	Medium
Action/Implementation Plan and Project	
Description:	
Actual Completion Date or Ongoing Indefinite	
Project Status & Changes in Priority	
Completion status legend:	
N = New; I = In Progress Toward Completion;	0
<b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed;	0
<b>R</b> = Want Removed from Annex; <b>X</b> = No Action	
Taken/Delayed	

Mitigation Action #7: Consid and StormReady.	er participation in in	centive-based program	ns such as the Cor	nmunity Rating Sys	stem, Tree City,	
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 Elmwood Park				
Applicable Goal		1,2,5				
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
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	Medium
Action/Implementation Plan and Project	
Description:	
Actual Completion Date or Ongoing Indefinite	
Project Status & Changes in Priority	
Completion status legend:	
N = New; I = In Progress Toward Completion;	0
<b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed;	0
<b>R</b> = Want Removed from Annex; <b>X</b> = No Action	
Taken/Delayed	

Mitigation Action #9: Where feasible, implement a program to record high water marks following high water events.							
Lead Agency/Department Organization: Village Administration	Supporting Agencies/ Organizations:	Estimated Cost: Medium	Potential Funding Source: General Fund; FEMA Public Assistance (PA)	Estimated Projected Completion Date: Long-term	Hazard(s) Mitigated: Flooding, Severe Weather		
Year Initiated	Year Initiated		2014				
Applicable Jurisdiction		Village of Elmwood Park					
Applicable Goal		1,2,3,					
Applicable Objective		3,6,9					
Cost Analysis (Low, Medium, High)		Medium					
Priority and Level of Importance (Low, Medium, High)		Medium					
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)		Medium					

Action/Implementation Plan and Project	
Description:	
Actual Completion Date or Ongoing Indefinite	
Project Status & Changes in Priority	
Completion status legend:	
N = New; I = In Progress Toward Completion;	0
<b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed;	0
<b>R</b> = Want Removed from Annex; <b>X</b> = No Action	
Taken/Delayed	

Lead	Supporting	Estimated	Potential	Estimated	Hazard(s)
Agency/Department	Agencies/	Cost:	Funding Source:	Projected	Mitigated:
Organization:	Organizations:	High	CIP component of	Completion	All
Public Works			General Fund (if	Date:	
			implemented)	Long-term	
Year Initiated		2014			
Applicable Jurisdiction		Village of Elmwood Park			
Applicable Goal		1,2,3,5			
Applicable Objective		1,2,7			
Cost Analysis (Low, Medium, High)		High			
Priority and Level of Importance (Low, Medium, High)		Medium			
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)		High			
Action/Implementation P	lan and Project				
Description:					
Actual Completion Date	or Ongoing Indefinite				
Project Status & Changes in Priority					
Completion status legend:		0			
<b>N</b> = New; <b>I</b> = In Progress Toward Completion;					

<b>O</b> = Ongoing Indefinitely; <b>C</b> = Project Completed;	
<b>R</b> = Want Removed from Annex; <b>X</b> = No Action	
Taken/Delayed	

### **Completed Actions**

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

Completed Action Items
Flood Mitigation Project to reduce sewer backups
Perform community outreach/public education through the use of Blackboard Connect (mass notification system).
Assist residents in flood prone areas with financial assistance for retro-fitting homes with approved home flood control systems.
Update existing outdoor warning sirens.
Actively participate in the plan maintenance strategy identified in this plan.
Maintain good standing under the National Flood Insurance Program.
Integrate the hazard mitigation plan into other plans, programs or resources that dictate land use or redevelopment.
Purchase property on the SW corner of 73rd Ave and Bloomingdale. It's the only property that is affected by a significant amount of rainfall at one time and is the most cost efficient measure to reduce property loss.

# Future Needs to Better Understand Risk/Vulnerability

No needs have been identified at this time.

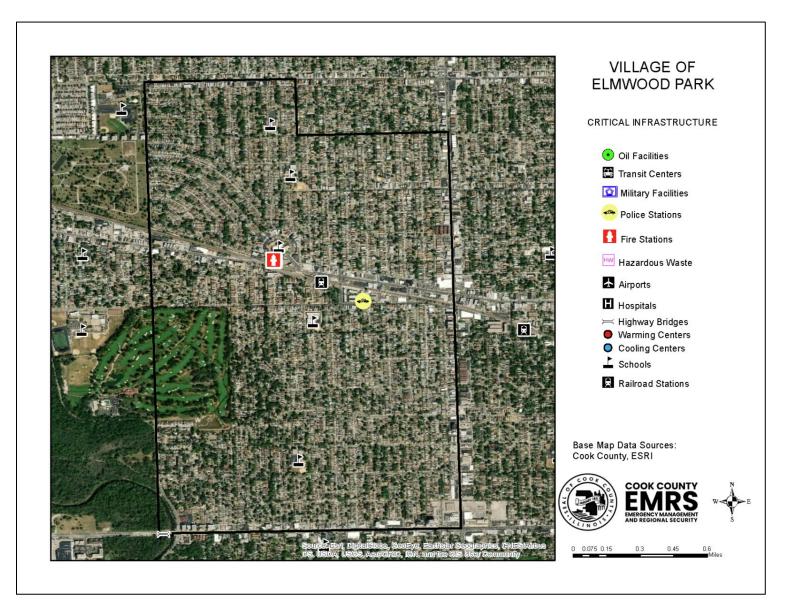
### **Additional Comments**

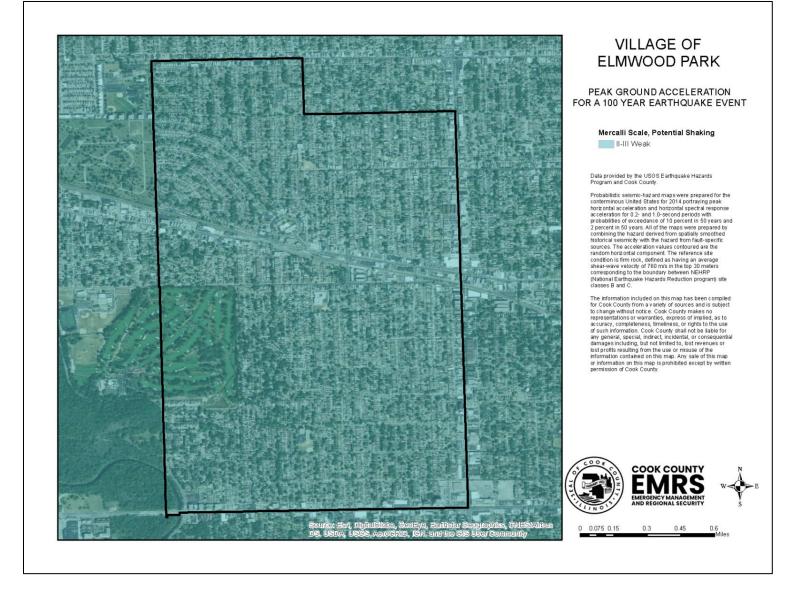
The Village will complete a flood mitigation project this fall. It is anticipated that this should significantly reduce sewer backup issues in the future.

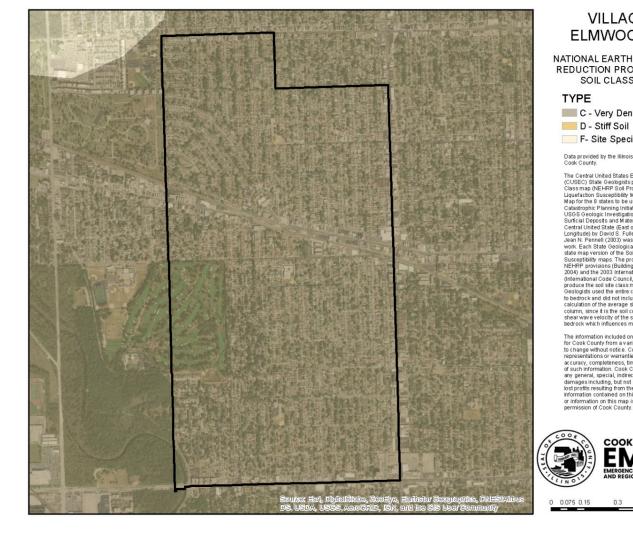
2024 Update:

- The Village will continue a project to upgrade the water delivery system in order to increase resilience and eliminate lead contamination potential.
- The Village continues efforts to replace trees lost to infestation and storm damage. This will reduce the potential of becoming a "heat island" and help reduce ambient temperatures during severe weather situations.
- The Village continues to pursue a grade separation of road and rail at 7700 W. Grand Ave. The intersections is dangerous and created a potential life safety hazard, as well as critical service disruption for the midwest in the event of a natural disaster

## **Hazard Mapping**







#### VILLAGE OF ELMWOOD PARK

NATIONAL EARTHQUAKE HAZARD REDUCTION PROGRAM (NEHRP) SOIL CLASSIFICATION

C - Very Dense Soil, Soft Rock

F- Site Specific Evaluation

Data provided by the Illinois State Geological Survey and

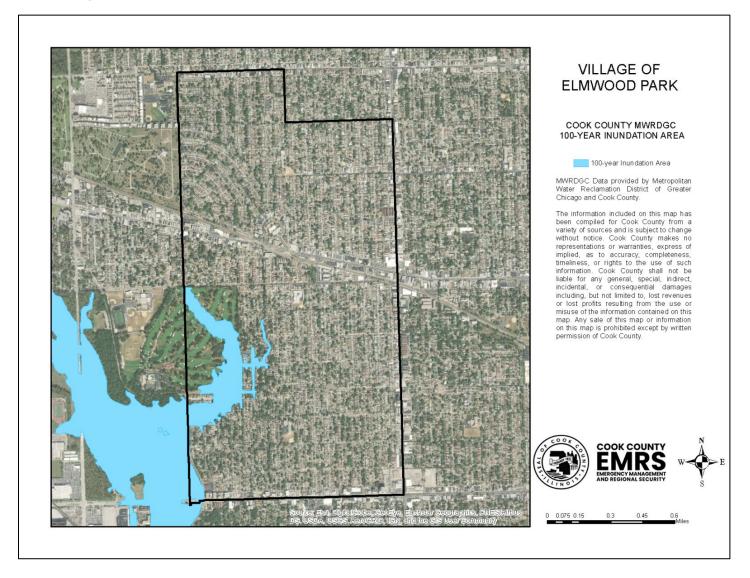
The Central United States Earthquake Consortium (CUSEC) State Geologists produced a regional Soil Site Class map (NEHRP Soil Profile Type Map), a Liquefaction Susceptibility M ag and a Soil Response Map for the 8 states to be used in the FEMA New Madrid Catastrophic Planning Initiative Phase II work. The Catastrophic Planning Initiative Phase II Work. The USGS Geologic Investigation Series I-2798 Map of Surficial Deposits and Materials in the Eastern and Central United State (East of 102 degrees West Longitude) by David S. Fulleton, Charles A. Bush and Jean N. Pennell (2003) was the base map used for this Jean K. Perifiei (2003) was the pase map used for mis-work. Each State Geological Survey produced its own state may version of the Soil Site Class and Liquefaction Susceptibility maps. The procedures outlined in the NEHRP provisions (Building Setsmic Safety Council, 2004) and the 2003 international Building Codes (International Code Council, 2002) were followed to international Code Council, 2002) were followed to produce the soil site class maps. CUSEC State Geologists used the entire column of soils material down to bedrock and did not include 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 amplification.

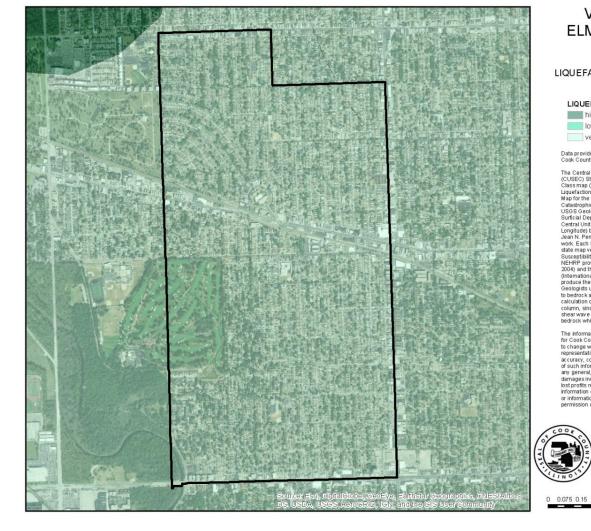
The information included on this map has been compiled for Cook County from a variety of sources and is subject to change without notice. Cook County makes no representations or warranties, express of implied, as to accuracy, completeness, timeliness, or rights to the use of such information. Cook County shall not be liable for any general, special, indirect, incidental, or consequential damages including, but not limited to, lost revenues or lost profits resulting from the use or misuse of the information contained on this map. Any sale of this map or information on this map is prohibited except by written



0.6 Miles 0.45

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 <a href="http://www.fema.gov">http://www.fema.gov</a>.





#### VILLAGE OF ELMWOOD PARK

#### LIQUEFACTION SUSCEPTIBILITY

#### LIQUEFACTION SUSCEPTIBILITY



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

The Central United States Earthquake Consortium (CUSEC) State Geologists produced a regional Soil Site Class map (NEHRP Soil Profile Type Map), a Liquefaction Susceptibility Map and a Soil Response Map for the 8 states to be used in the FEMA New Madrid Catastrophic Planning Initiative Phase II work. The Catastrophic Planning Initiative Phase II Work. The USGS Geologic Investigation Series I-2798 Map of Surficial Deposits and Materials in the Eastern and Central United State (East of 102 degrees West Longitude) by David S. Fulleton, Charles A. Bush and Jean N. Pennell (2003) was the base map used for this Jean N. Pennell (2003) was the base map used for this work. Each State Geological Survey produced its own state may version of the Soll Site Class and Liquefaction Susceptibility maps. The procedures outlined in the NEHRP provisions (Building Setsmic Safety Council, 2004) and the 2003 international Building Codes (Intermediate Code Secure), 2002) were followed to the set of t produce the soil site class maps. CUSEC State Geologists used the entire column of soils material down to bedrock and did not include 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 amplification.

The information included on this map has been compiled for Cook County from a variety of sources and is subject to change without notice. Cook County makes no representations or warranties, express of implied, as to accuracy, completeness, timeliness, or rights to the use of such information. Cook County shall not be liable for any general, special, indirect, incidental, or consequential damages including, but not limited to, lost revenues or lost profits resulting from the use or misuse of the information contained on this map. Any sale of this map or information on this map is prohibited except by written permission of Cook County.





