

## Oak Park

### Hazard Mitigation Plan Point of Contact

Primary Point of Contact	Alternate Point of Contact
Lee Christenson 123 Madison Street Oak Park, IL. 60302 Telephone: 708-358-5489 Email Address: Lchristenson@oak-park.us	Robert Sproule 201 South Blvd. Oak Park, IL. 60302 Telephone: 708-358-5700 Email Address: rsroule@oak-park.us

### Jurisdiction Profile

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

**Date of Incorporation:** January 25, 1902

**Current Population:** The 2020 U.S. Census population was 54,583. The 2022 U.S. Census estimate indicated the population was 52,553.

**Population Growth:** The overall population has decreased by 0.55% between 2018 and 2022.

**Location and Description:** The Village of Oak Park occupies 4.5 square miles on the western border of Chicago, approximately 9 miles from Lake Michigan. It is the 29th largest community in Illinois by population. The Village has easy access to Chicago via the Interstate 90, the Blue and Green L lines, Metra and public transportation.

**Brief History:** In 1837, Joseph Kettlestrings purchased 172 acres (70 ha) of land just west of Chicago. By 1850, the Galena and Chicago Union Railroad was constructed as far as Elgin, Illinois, and passed through what would later become Oak Park. In the 1850s the land on which Oak Park sits was part of the new Chicago suburb of Cicero. The population of the area boomed during the 1870s, with Chicago residents resettling in Cicero following the Great Chicago Fire of 1871.

The Village of Oak Park was formally established in 1902, disengaging from Cicero following a referendum.

Oak Park has a history of alcohol prohibition. When the village was incorporated, no alcohol was allowed to be sold within its village limits. This law was relaxed in 1973, when restaurants and hotels were allowed to serve alcohol, and was further loosened in 2002, when select grocery stores received governmental permission to sell packaged liquor.

Oak Park attracts architecture buffs and others to view the many Frank Lloyd Wright designed homes found in the village. The largest collection of Wright-designed residential properties in the world is in Oak Park. Other attractions include Ernest Hemingway's birthplace home and his boyhood home, the Ernest Hemingway Museum, the three Oak Park homes of Tarzan creator Edgar Rice Burroughs, Wright's Unity Temple, Pleasant Home, the Oak Park-River Forest Historical Society, and the Seward Gunderson Historic District.

Oak Park is home to Oak Park and River Forest High School, which is also the public high school for the bordering village of River Forest. A comprehensive college preparatory school, Oak Park-River Forest High School has a long history of turning out alumni who have made major or notable contributions to their field of endeavor. Among these are Pulitzer Prizewinning author Ernest Hemingway, football Hall-of-Famer George Trafton, McDonald’s founder Ray Kroc, city planner Walter Burley Griffin, comedian Kathy Griffin, basketball player Iman Shumpert, and the voice of iconic cartoon character Homer Simpson, Dan Castellaneta.

**Climate:** A humid continental climate is a climatic region typified by large seasonal temperature differences, with warm to hot (and often humid) summers and cold (sometimes severely cold) winters and is commonly found throughout the American Midwest.

**Governing Body Format:** The village government includes an elected president and an elected village board which hires a village manager to conduct the day-to-day affairs of the administration. Oak Park also has five additional governments which levy real estate taxes. These include the Oak Park Township, the high school district (which also levies from adjacent River Forest), the elementary school district, the library district, and the park district.

**Developmental Trends:** New projects are under development throughout the community. Currently there are multiple apartment buildings under development, a couple condo and townhome developments, and addition to the ER facility at Rush Oak Park Hospital, and some other retail and office developments.

**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
<b>Codes, Ordinances &amp; Requirements</b>					
Building Code	Yes	No	No	Yes	OPVC Chapter 7-3, adopted 4/1/2004
Zonings	Yes	No	No	No	7-3- 12/5/2013
Subdivisions	Yes	No	No	No	OPVC Chapter 23-1, adopted 2/3/2014

Stormwater Management	Yes	No	No	No	2-7
Post Disaster Recovery	No	No	No	No	
Real Estate Disclosure	Yes	No	No	Yes	OPVC Chapter 2-25-4, adopted 2/3/2014
Growth Management	Yes	No	No	No	Comprehensive Plan
Site Plan Review	Yes	No	No	No	OPVC Chapter 23-1, adopted 2/3/2014
Public Health and Safety	Yes	No	No	No	OPVC Chapter 2-11, adopted 2/3/2013
Environmental Protection	No	No	No	No	
<b>Planning Documents</b>					
General or Comprehensive Plan	Yes	No	No	No	The Village of Oak Park works to maintain the character of the community by managing change through the Comprehensive Plan and business district plan recommendations. Adopted 9/4/1990
<i>Is the plan equipped to provide integration to this mitigation plan?</i>					Yes, plan includes housing and economic development elements.
Floodplain or Basin Plan	No	Yes	No	No	
Stormwater Plan	No	No	No	No	
Capital Improvement Plan	No	No	No	No	MWRD Detailed Watershed Plan
<i>What types of capital facilities does the plan address?</i>					Water. Transportation, Drainage
<i>How often is the plan revised/updated?</i>					Annually
Habitat Conservation Plan	Yes	No	No	No	PlanItGreen
Economic Development Plan	Yes	No	No	No	Comprehensive Plan include economic

					development component
Shoreline Management Plan	No	No	No	No	
Community Wildfire Protection Plan	No	No	No	No	
<b>Response/Recovery Planning</b>					
Comprehensive Emergency Management Plan	Yes	Yes	Yes	No	
Threat and Hazard Identification and Risk Assessment	No	Yes	Yes	No	
Terrorism Plan	Yes	Yes	Yes	No	
Post-Disaster Recovery Plan	No	Yes	Yes	No	
Continuity of Operations Plan	No	Yes	Yes	No	
Public Health Plans	Yes	Yes	Yes	No	

<b>TABLE: FISCAL CAPABILITY</b>	
<b>Financial Resources</b>	<b>Accessible or Eligible to Use?</b>
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	

<b>TABLE: ADMINISTRATIVE AND TECHNICAL CAPABILITY</b>		
<b>Staff/Personnel Resources</b>	<b>Available?</b>	<b>Department/Agency/Position</b>
Planners or engineers with knowledge of land development and land management practices	Yes	Public Works/Oak Park/Director
Engineers or professionals trained in building or infrastructure construction practices	Yes	Public Works/Oak Park/Village Engineer
Planners or engineers with an understanding of natural hazards	Yes	Public Works/Oak Park/Village Engineer

Staff with training in benefit/cost analysis	Yes	Public Works/Oak Park
Surveyors	Yes	Cook County
Personnel skilled or trained in GIS applications	Yes	Public Works/Oak Park/Traffic Safety
Scientist familiar with natural hazards in local area	Yes	IEMA
Emergency manager	Yes	Police/Oak Park/Emergency Preparedness and Response Manager
Grant writers	Yes	Finance

<b>TABLE: NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE</b>	
What department is responsible for floodplain management in your jurisdiction?	N/A
Who is your jurisdiction’s floodplain administrator? (department/position)	N/A
Are any certified floodplain managers on staff in your jurisdiction?	N/A
What is the date of adoption of your flood damage prevention ordinance?	N/A
When was the most recent Community Assistance Visit or Community Assistance Contact?	N/A
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? If so, please state what they are.	N/A
Do your flood hazard maps adequately address the flood risk within your jurisdiction? (If no, please state why)	N/A
Does your floodplain management staff need any assistance or training to support its floodplain management program? If so, what type of assistance/training is needed?	N/A
Does your jurisdiction participate in the Community Rating System (CRS)? If so, is your jurisdiction seeking to improve its CRS Classification? If not, is your jurisdiction interested in joining the CRS program?	N/A

Note: The Village of Oak Park is currently not participating in the NFIP - not designated in a high risk area, considered minor from FEMA.

**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.

**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:*

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

<b>TABLE: COMMUNITY CLASSIFICATIONS</b>			
	<b>Participating?</b>	<b>Classification</b>	<b>Date Classified</b>
Community Rating System	No	N/A	N/A
Building Code Effectiveness Grading Schedule	Yes	9/9	03/28/2012
Public Protection/ISO	Yes	2	--
StormReady	Yes	Gold (Countywide)	2014
Tree City USA	No	N/A	N/A

**Opportunities to Expand and Improve Capabilities**

At this time, the Village of Oak Park has not identified opportunities to expand or improve our current capabilities. Should such opportunities be identified in the future, this Capability Assessment will be updated accordingly.

**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.

*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

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

Type of Event	FEMA Disaster Number (if applicable)	Date	Preliminary Damage Assessment/ Event Narrative
Illinois Severe Storms, Straight-Line Winds and Flooding	DR-4116	4/18/2013	5.25 inches of rain Substantial flooding along Oak Park Avenue between Irving Park Road and Forest Preserve Drive
Severe Weather and Flooding		8/26/2012	4.53 inches of rain

			During the evening of August 26th, torrential rain fell across portions of the Chicago Metropolitan area causing flash flooding.
Illinois Severe Winter Storm and Snowstorm	DR-1960	7/23/2011	163 had flooded basements and 4.92 inches of rain The hardest-hit area was northeast Oak Park, which Public Works Director John Wielebnicki said is because the ground level is lower in that section of the community.
Illinois Severe Storms and Flooding	DR-1935	7/24/2010	widespread flooding and damage - rainfall at 7.89 inches Hardest hit was the northeast corner of the village, where flooding was reported to have reached the street. That's because, according to Village Engineer Jim Budrick, it's the area of the village at the lowest elevation.
Illinois Severe Storms and Flooding	DR-1800	2008	-
Illinois Severe Storms and Flooding	DR-1729	2007	-
Blizzard		2/13/2007	9.8inches of snow
Illinois Flooding	DR-1188	1997	-
Illinois Flooding	DR-1129	1996	-
Illinois Flooding, Severe Storms	DR-997	1993	-
Illinois Severe Storms and Flooding	DR-798	1987	-
Illinois Severe Storms and Flooding	DR-776	1986	-
Illinois Severe Storms, Tornadoes, Flooding	DR-643	1981	-
Illinois Severe Storms, Tornadoes, Flooding	DR-509	1976	-
Illinois Severe Storms and Flooding	DR-373	1973	-
Illinois Severe Storms and Flooding	DR-351	1972	-
Illinois Tornadoes	DR-227	1967	-

**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:** The Village has experienced flooding from heavy rains. In particular, the northeast part of town is most susceptible. Previously, this natural hazard has caused basement flooding and street closures throughout the Village. In 2012, heavy rain fell across portions of the Chicago Metropolitan area causing rapid filling of underpasses, ramps, and numerous viaducts. Some of the rainfall reports across the area include 4.53 inches in North Riverside. The Northeast section of the Village is prone to flooding due to the storm sewer having insufficient capacity to handle large rain events.

**Earthquake:** The Village of Oak Park contains a high number of historically and architecturally significant structures. As the former home of Frank Lloyd Wright, Oak Park contains the highest number of structures designed by him in the country. The Village is known as a destination for those interested in architecture, which is a key component to the jurisdiction's economy.

**Extreme Heat:** As a result of the Village's many high-rise buildings and nursing homes, the citizens of Oak Park are particularly vulnerable to extreme heat.

**Lightning:** Many high-rises, cell towers. Similar to the risks posed by extreme heat events, the Village's many high-rise buildings and cell towers render the community particularly vulnerable to the impacts of lightning.

**High Winds:** Since the Village of Oak Park has over 20,000 parkway trees, downed trees could cause a total blockage of streets. In 2008, as many as 50 large tree limbs were blown down along with power lines in Oak Park. A couple entire trees were also blown down. In 2010, several tree limbs and power lines were blown down during a thunderstorm with high winds.

**Snow:** Major thoroughfares (Harlem, Roosevelt, North Ave., Austin, I-290) in the Village are vulnerable to severe snow events. Moreover, parking congestion on the streets prevents adequate snow removal.

**Blizzards:** Major thoroughfares (Harlem, Roosevelt, North Ave., Austin, I-290) in the Village are vulnerable to blizzards. Moreover, parking congestion on the streets prevents adequate snow removal. In 2007, heavy snow fell across northern Illinois on February 13th with some areas receiving over one foot of snow. In addition, wind gusts were frequently blowing at or above 35 mph, creating blizzard and whiteout conditions across many areas. Oak Park measured 9.8 inches. In 2014, heavy snow fell during the morning and afternoon of February 17th dropping 6 to 9 inches of snow across portions of east central and northeast Illinois. Some of the high snow reports include 8.1 inches near Oak Park.

**Extreme Cold:** Previously, the community has experienced frozen fire sprinkler lines. In addition to this impact, the Village's many senior-living facilities make the area particularly vulnerable to extreme cold.

**Ice Storms:** Major thoroughfares (Harlem, Roosevelt, North Ave., Austin, I-290) in the Village are vulnerable to ice storms. Moreover, parking congestion on the streets prevents adequate snow removal.

**Tornado:** Because the Village has 20,000 parkway trees, RxR/CTA/Metra, and over 50,000 residents, the community is particularly vulnerable to the impacts of tornadoes. As the former home of Frank Lloyd Wright, Oak Park contains the highest number of structures designed by him in the country, making it a known destination for those interested in architecture and a key component to the jurisdiction's economy. Oak Park is a Tree City USA, and has a high concentration of trees and large vegetation. In the event of a tornado or strong, straight line winds, it is likely that tree/debris removal would be a large task requiring significant resources. Critical facilities in Oak Park do have backup power generators, however, they are only sufficient in sustaining emergency systems and are need of

upgrades. At least one pump station for potable water within the Village is without a backup generator, which would leave a portion of residents without water in the event of a power disruption.

**Drought:** While no drought has occurred, preserving the natural landscape is essential to groundwater maintenance and beneficial in flood reduction.

**Severe Weather:** The Village of Oak Park contains a concentration of nursing homes and long term care facilities, and has a population over age 65 that is slightly higher than the county average, making extreme temperatures of particular risk.

Critical facilities in Oak Park do have backup power generators, however, they are only sufficient in sustaining emergency systems and are need of upgrades. At least one pump station for potable water within the Village is without a backup generator, which would leave a portion of residents without water in the event of a power disruption.

Indicator	Number	Percent
Families in poverty	427	3.3%
People with disabilities	5,294	10.2%
People over 65 years	8,206	15.8%
People under 5 years	3,047	5.8%
People of color	20,092	38.6%
Black	9,612	18.4%
Native American	147	0.3%
Hispanic	4,937	9.5%
Difficulty with English	338	0.7%
Households with no car	2,792	12.9%
Mobile homes	41	0.2%

*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 hazard-prone 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
<b>Current Vulnerability</b>	
Dam and Levee Failure	Remained the Same

Drought	Increased
Earthquake	Remained the Same
Flood (Riverine, Urban, Shoreline)	Increased
Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds)	Increased
Severe Winter Weather (Ice Storms, Heavy Snow, Blizzards, Extreme Cold)	Remained the Same
Tornado	Increased
Wildfire (Wildfire Smoke)	Remained the Same

Hazard	Vulnerability
<b>Future Vulnerability</b>	
Dam and Levee Failure	No Change is Anticipated
Drought	Increase
Earthquake	No Change is Anticipated
Flood (Riverine, Urban, Shoreline)	Increase
Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds)	Increase
Severe Winter Weather (Ice Storms, Heavy Snow, Blizzards, Extreme Cold)	Decrease
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
<b>Current Vulnerability</b>	
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, Fog, High Winds)	Remained the Same
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
<b>Future Vulnerability</b>	
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 Winds)	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

With the likely increase of severe weather/heat in the coming years, critical facilities and infrastructure, natural and cultural resources, the economy, and vulnerable populations will all face increased challenges and vulnerability.

## 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.

<b>TABLE: HAZARD RISK RANKING</b>	
<b>Rank</b>	<b>Hazard Type</b>
1	Severe Weather
2	Flood
3	Severe Winter Weather
4	Tornado
5	Drought
6	Earthquake
7	Severe Weather

## New Mitigation Actions

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

### Action O-4.18

<b>Mitigation Action #18: Combined Sewer System Master Plan to reduce the frequency and severity of sewer backups into basements.</b>					
<b>Lead Agency/Department Organization:</b> Village of Oak Park Public Works Department	<b>Supporting Agencies/ Organizations:</b>	<b>Estimated Cost:</b> \$16,750,000 High	<b>Potential Funding Source:</b> General Fund Hazard Mitigation Grant Program (HMGP) Building Resilient Infrastructure and Communities (BRIC) Flood Mitigation Assistance (FMA) Program	<b>Estimated Projected Completion Date:</b> Long-term	<b>Hazard(s) Mitigated:</b> Flood (Riverine, Urban, Coastal/Shoreline) Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds)
<b>Year Initiated</b>		2024			
<b>Applicable Jurisdiction</b>		Village of Oak Park			
<b>Applicable Goal</b>		1,2,5			
<b>Applicable Objective</b>		1,2,9,12			
<b>Cost Analysis (Low, Medium, High)</b>		High			
<b>Priority and Level of Importance (Low, Medium, High)</b>		High			

<p><b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)</p>	<p>High</p>
<p><b>Action/Implementation Plan and Project Description:</b></p>	<p>One of the projects identified in the 2014 Combined Sewer System Master Plan Report is the replacement of the existing 45” combined sewer with a proposed 72” combined sewer on Lombard Avenue, from Greenfield Street to Erie Street, in the northeast part of the Village. The existing sewer is undersized, nearly flat, and over 100 years old. Replacement of the existing sewer would provide the opportunity to increase slope and take advantage of the depth of the existing, downstream trunk and interceptor sewers. These improvements significantly improve the performance of the Village’s combined sewer system in the northeast part of town. This proposed upsized sewer will relieve multi-block segments of existing combined sewer along Greenfield Street, Berkshire Street, Division Street, Thomas Street, and Augusta Street, reducing the risk of surcharging that could contribute to basement flooding in the area. As part of the project, the existing water mains and services will need to be replaced. The Village estimates that approximately 75% of the existing water services are lead, which will be replaced with copper. With the project the roadway will need to be reconstructed following construction of the new sewer. The project includes green infrastructure by using a permeable pavement system for the new roadway on Lombard Avenue to reduce the volume of storm-water entering the combined sewer system which will improve the resiliency of the sewer system and create an environmental sound risk reduction project.</p>
<p><b>Actual Completion Date or Ongoing Indefinite</b></p>	
<p><b>Project Status &amp; Changes in Priority</b>  <b>Completion status legend:</b>  <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</p>	<p>N</p>

**Action O-4.20**

**Mitigation Action #20: Install New Generator**

VOLUME 2: MJ-HMP JURISDICTIONAL ANNEXES

<b>Lead Agency/Department Organization:</b> Public Works	<b>Supporting Agencies/ Organizations:</b>	<b>Estimated Cost:</b> Medium	<b>Potential Funding Source:</b> General Fund State Special Funds Building Resilient Infrastructure and Communities (BRIC)	<b>Estimated Projected Completion Date:</b> Short-term	<b>Hazard(s) Mitigated:</b> Earthquake Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds) Severe Winter Weather (Ice Storm, Heavy Snow, Blizzards, Extreme Cold) Tornado
<b>Year Initiated</b>	2024				
<b>Applicable Jurisdiction</b>	Village of Oak Park				
<b>Applicable Goal</b>	1,2,3,4				
<b>Applicable Objective</b>	1,2,7,12				
<b>Cost Analysis (Low, Medium, High)</b>	Medium				
<b>Priority and Level of Importance (Low, Medium, High)</b>	High				
<b>Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)</b>	High				
<b>Action/Implementation Plan and Project Description:</b>	This Mitigation Action includes installing a new 300 KW standby Caterpillar Generator for the Village of Oak Park's South Pumping Station. The generator would automatically turn on and provide power to the entire facility and equipment whenever main utility power is not available or inconsistent. The South Pumping Station would then be unaffected by power outages and water service to the neighborhood would be uninterrupted.				
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority</b>	N				

<p><b>Completion status legend:</b>  <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</p>	
--	--

**Action O-4.21**

<b>Mitigation Action #21: Reconstruction of deteriorated alleys with new concrete alleys with an inverted crown and made of permeable pavers.</b>					
<p><b>Lead Agency/Department Organization:</b> Public Works</p>	<p><b>Supporting Agencies/Organizations:</b></p>	<p><b>Estimated Cost:</b> Medium</p>	<p><b>Potential Funding Source:</b> General Fund State Special Funds Hazard Mitigation Grant Program (HMGP) Flood Mitigation Assistance (FMA) Program</p>	<p><b>Estimated Projected Completion Date:</b> Ongoing</p>	<p><b>Hazard(s) Mitigated:</b> Flood (Riverine, Urban, Coastal/Shoreline) Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds)</p>
<b>Year Initiated</b>		2024			
<b>Applicable Jurisdiction</b>		Village of Oak Park			
<b>Applicable Goal</b>		1,2			
<b>Applicable Objective</b>		1,3			
<b>Cost Analysis (Low, Medium, High)</b>		Medium			
<b>Priority and Level of Importance (Low, Medium, High)</b>		Medium			

<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	Medium
<b>Action/Implementation Plan and Project Description:</b>	Reconstruction of deteriorated alleys with new concrete alleys with an inverted crown and made of permeable pavers.
<b>Actual Completion Date or Ongoing Indefinite</b>	
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <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	N

**Action O-4.22**

<b>Mitigation Action #22: Expand capacity of the Public Works Center backup generator by installing additional circuits, which will also support power for future electric vehicles. Current generator provides minimal backup power.</b>					
<b>Lead Agency/Department Organization:</b> Public Works	<b>Supporting Agencies/Organizations:</b>	<b>Estimated Cost:</b> Low	<b>Potential Funding Source:</b> General Fund	<b>Estimated Projected Completion Date:</b> Short-term	<b>Hazard(s) Mitigated:</b> Earthquake Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds) Severe Winter Weather (Ice Storm, Heavy Snow, Blizzards, Extreme Cold) Tornado
<b>Year Initiated</b>		2025			
<b>Applicable Jurisdiction</b>		Village of Oak Park			

<b>Applicable Goal</b>	1,2,3
<b>Applicable Objective</b>	1,2
<b>Cost Analysis (Low, Medium, High)</b>	Low
<b>Priority and Level of Importance (Low, Medium, High)</b>	High
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	Medium
<b>Action/Implementation Plan and Project Description:</b>	Expand capacity of the Public Works Center backup generator by installing additional circuits, which will also support power for future electric vehicles. Current generator provides minimal backup power
<b>Actual Completion Date or Ongoing Indefinite</b>	
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed	N

**Action O-4.23**

<b>Mitigation Action #23: Implement the RainReady Grant Program</b>					
<b>Lead Agency/Department Organization:</b> Public Works	<b>Supporting Agencies/Organizations:</b> OP Neighborhood Services Division, Center for Neighborhood Technology	<b>Estimated Cost:</b> Low	<b>Potential Funding Source:</b> General Fund	<b>Estimated Projected Completion Date:</b> Ongoing	<b>Hazard(s) Mitigated:</b> Flood (Riverine, Urban, Coastal/Shoreline)
<b>Year Initiated</b>	2016, new mitigation action for 2024				
<b>Applicable Jurisdiction</b>	Village of Oak Park				
<b>Applicable Goal</b>	1,2,6				
<b>Applicable Objective</b>	6,8,9,11,13				
<b>Cost Analysis (Low, Medium, High)</b>	Low				

<b>Priority and Level of Importance (Low, Medium, High)</b>	Low
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	High
<b>Action/Implementation Plan and Project Description:</b>	The RainReady Grant Program promotes projects that reduce storm water runoff on private properties. The grant offers 50% reimbursement up to \$1,300 for homeowners to complete projects such as rain gardens, permeable pavers, and cisterns.
<b>Actual Completion Date or Ongoing Indefinite</b>	
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <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	N

**Action O-4.24**

<b>Mitigation Action #24: Implement Sewer Backup Protection Grant Program</b>					
<b>Lead Agency/Department Organization:</b> Public Works	<b>Supporting Agencies/Organizations:</b> Oak Park Neighborhood Services Division	<b>Estimated Cost:</b> Low	<b>Potential Funding Source:</b> General Fund Local or State Special Taxes	<b>Estimated Projected Completion Date:</b> Ongoing	<b>Hazard(s) Mitigated:</b> Flood (Riverine, Urban, Coastal/Shoreline) Severe Weather (Extreme Heat, Lightning, Hail, Fog, High Winds)
<b>Year Initiated</b>	2012, new mitigation action for 2024				
<b>Applicable Jurisdiction</b>	Village of Oak Park				
<b>Applicable Goal</b>	1,2,6				
<b>Applicable Objective</b>	6,8,9,11,13				
<b>Cost Analysis (Low, Medium, High)</b>	Low				

<b>Priority and Level of Importance (Low, Medium, High)</b>	Low
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	Medium
<b>Action/Implementation Plan and Project Description:</b>	The Sewer Backup Protection Grant Program provides financial assistance to homeowners to protect their homes from sewer backup during significant rain events. Homeowners can qualify for 50% of the cost, up to \$5,000.00, to install an overhead sewer system or backflow protection valves to prevent sewer backup into their homes.
<b>Actual Completion Date or Ongoing Indefinite</b>	
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed	N

**Action O-4.25**

<b>Mitigation Action #25: Construct New Police Station</b>					
<b>Lead Agency/Department Organization:</b> Public Works	<b>Supporting Agencies/Organizations:</b> Oak Park Police Department, Numerous state and local agencies and departments.	<b>Estimated Cost:</b> High	<b>Potential Funding Source:</b> General Fund Local or State Special Taxes State Special Funds Building Resilient Infrastructure and Communities (BRIC)	<b>Estimated Projected Completion Date:</b> Short-term	<b>Hazard(s) Mitigated:</b> All

<b>Year Initiated</b>	2019, new mitigation action for 2024
<b>Applicable Jurisdiction</b>	Village of Oak Park
<b>Applicable Goal</b>	1,2,3
<b>Applicable Objective</b>	1,2,5,13
<b>Cost Analysis (Low, Medium, High)</b>	High
<b>Priority and Level of Importance (Low, Medium, High)</b>	High
<b>Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)</b>	Medium
<b>Action/Implementation Plan and Project Description:</b>	The Village of Oak Park will be constructing a new Police Station, as the current facility is overcrowded, obsolete, and is insufficient as a functioning facility. The project design for the new station will prioritize the reduction of building emissions, reduction in energy usage, and will align with the Village's Climate Ready Oak Park Plan.
<b>Actual Completion Date or Ongoing Indefinite</b>	
<b>Project Status &amp; Changes in Priority Completion status legend:</b> <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	N

**Action O-4.26**

<b>Mitigation Action #26: Continued installation of Electric Vehicle charging stations throughout the jurisdiction.</b>					
<b>Lead Agency/Department Organization:</b> Public Works	<b>Supporting Agencies/Organizations:</b> U.S. Department of Transportation	<b>Estimated Cost:</b> Medium	<b>Potential Funding Source:</b> General Fund The Village is attempting to get up to 80% of project costs reimbursed	<b>Estimated Projected Completion Date:</b> Ongoing	<b>Hazard(s) Mitigated:</b> All

			through Federal grant programs US Dept. of Transportation Charging and Fueling Infrastructure Discretionary Grant Program		
<b>Year Initiated</b>	2019, new mitigation action for 2024				
<b>Applicable Jurisdiction</b>	Village of Oak Park				
<b>Applicable Goal</b>	1,2,3,4				
<b>Applicable Objective</b>	2,13				
<b>Cost Analysis (Low, Medium, High)</b>	Medium				
<b>Priority and Level of Importance (Low, Medium, High)</b>	Medium				
<b>Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)</b>	Medium				
<b>Action/Implementation Plan and Project Description:</b>	The Village of Oak Park will be constructing a new Police Station, as the current facility is overcrowded, obsolete, and is insufficient as a functioning facility. The project design for the new station will prioritize the reduction of building emissions, reduction in energy usage, and will align with the Village's Climate Ready Oak Oak Park Plan.				
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority Completion status legend:</b> N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed	N				

### 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.

#### Action O-4.1

<b>Mitigation Action #1: Identify combined sewer system defects through video inspection</b>					
<b>Lead Agency/Department Organization:</b> Village Administration	<b>Supporting Agencies/Organizations:</b>	<b>Estimated Cost:</b> \$100,000 Annually, Low	<b>Potential Funding Source:</b> Water and Sewer Fund	<b>Estimated Projected Completion Date:</b> Annual Program	<b>Hazard(s) Mitigated:</b> Flooding, Severe Weather
<b>Year Initiated</b>		2014			
<b>Applicable Jurisdiction</b>		Village of Oak Park			
<b>Applicable Goal</b>		1,2,3			
<b>Applicable Objective</b>		6.9.13			
<b>Cost Analysis (Low, Medium, High)</b>		High			
<b>Priority and Level of Importance (Low, Medium, High)</b>		Medium			
<b>Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)</b>		Medium			
<b>Action/Implementation Plan and Project Description:</b>					
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority Completion status legend:</b> N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed		O			

Action O-4.2

Mitigation Action #2: Conduct sewer main repairs					
<b>Lead Agency/Department Organization:</b> Village Administration	<b>Supporting Agencies/Organizations:</b>	<b>Estimated Cost:</b> High	<b>Potential Funding Source:</b> Grants/Water and Sewer Fund	<b>Estimated Projected Completion Date:</b> FY 2022-2026 CIP	<b>Hazard(s) Mitigated:</b> Flooding, Severe Weather
<b>Year Initiated</b>		2014			
<b>Applicable Jurisdiction</b>		Village of Oak Park			
<b>Applicable Goal</b>		1,2,3			
<b>Applicable Objective</b>		2,9,13			
<b>Cost Analysis (Low, Medium, High)</b>		Medium			
<b>Priority and Level of Importance (Low, Medium, High)</b>		Medium			
<b>Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)</b>		Medium			
<b>Action/Implementation Plan and Project Description:</b>					
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority Completion status legend:</b> N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed		O			

Action O-4.3

Mitigation Action #3: Identify sewer capacity constraints					
<b>Lead Agency/Department Organization:</b> Village Administration	<b>Supporting Agencies/Organizations:</b>	<b>Estimated Cost:</b> \$10,000 annually, Low	<b>Potential Funding Source:</b>	<b>Estimated Projected</b>	<b>Hazard(s) Mitigated:</b>

VOLUME 2: MJ-HMP JURISDICTIONAL ANNEXES

			W&S Fund	<b>Completion Date:</b> Annual Program	Flooding, Severe Weather
<b>Year Initiated</b>	2014				
<b>Applicable Jurisdiction</b>	Village of Oak Park				
<b>Applicable Goal</b>	1,2,3				
<b>Applicable Objective</b>	2,9,13				
<b>Cost Analysis (Low, Medium, High)</b>	High				
<b>Priority and Level of Importance (Low, Medium, High)</b>	Medium				
<b>Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)</b>	High				
<b>Action/Implementation Plan and Project Description:</b>	As part of the above ongoing projects, sewer capacity constraints are being identified and schedule for repair. The Village has ongoing sewer televising and flushing programs.				
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority Completion status legend:</b> N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed	O				

Action O-4.4

<b>Mitigation Action #4: Education program to encourage downspout disconnection</b>					
<b>Lead Agency/Department Organization:</b> Village Administration	<b>Supporting Agencies/Organizations:</b>	<b>Estimated Cost:</b> Low	<b>Potential Funding Source:</b> General Revenue	<b>Estimated Projected Completion Date:</b> Ongoing	<b>Hazard(s) Mitigated:</b> Flooding, Severe Weather
<b>Year Initiated</b>	2014				
<b>Applicable Jurisdiction</b>	Village of Oak Park				
<b>Applicable Goal</b>	2,3,6				

<b>Applicable Objective</b>	6,8,9,13
<b>Cost Analysis (Low, Medium, High)</b>	Low
<b>Priority and Level of Importance (Low, Medium, High)</b>	High
<b>Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)</b>	Medium
<b>Action/Implementation Plan and Project Description:</b>	Ongoing program with Public Works and the Village Communications department working together to educate residents
<b>Actual Completion Date or Ongoing Indefinite</b>	
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed	O

**Action O-4.5**

<b>Mitigation Action #5: Implement education program promoting native landscapes</b>					
<b>Lead Agency/Department Organization:</b> Village Administration	<b>Supporting Agencies/Organizations:</b>	<b>Estimated Cost:</b> \$90,000 annually (including engineering)	<b>Potential Funding Source:</b> W&S Fund	<b>Estimated Projected Completion Date:</b> Annual Rain Ready Program - Annual/Ongoing	<b>Hazard(s) Mitigated:</b> Flooding, Severe Weather, Drought
<b>Year Initiated</b>	2014				
<b>Applicable Jurisdiction</b>	Village of Oak Park				
<b>Applicable Goal</b>	2,3,6				
<b>Applicable Objective</b>	3,4,6,13				
<b>Cost Analysis (Low, Medium, High)</b>	Low				
<b>Priority and Level of Importance (Low, Medium, High)</b>	High				
<b>Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)</b>	Medium				

<b>Action/Implementation Plan and Project Description:</b>	On September 6, 2016, the Oak Park Village Board approved a pilot program (RainReady) with CNT to minimize impacts to flooding via rain gardens, bioswales, permeable pavements, etc. to reduce impacts. In 2017 & 2018 30 applications were approved for grants.
<b>Actual Completion Date or Ongoing Indefinite</b>	
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <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	O

**Action O-4.6**

<b>Mitigation Action #6: Adopt financial assistance programs encouraging homeowners to install sewer backflow preventers</b>					
<b>Lead Agency/Department Organization:</b> Village Administration	<b>Supporting Agencies/Organizations:</b>	<b>Estimated Cost:</b> \$200,000 annually; medium	<b>Potential Funding Source:</b> W&S Fund	<b>Estimated Projected Completion Date:</b> Annual Program	<b>Hazard(s) Mitigated:</b> Flooding, Severe Weather
<b>Year Initiated</b>	2014				
<b>Applicable Jurisdiction</b>	Village of Oak Park				
<b>Applicable Goal</b>	2,3,6				
<b>Applicable Objective</b>	6, 7, 9, 10				
<b>Cost Analysis (Low, Medium, High)</b>	Low				
<b>Priority and Level of Importance (Low, Medium, High)</b>	High				
<b>Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)</b>	High				
<b>Action/Implementation Plan and Project Description:</b>	Financial program remains in place with \$200,000 funded in 2018 and is budgeted for \$200,000 in 2019. This continues to be a popular program which supports approximately 60 grants per year.				
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority</b>	O				

<p><b>Completion status legend:</b>  <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</p>	
--	--

**Action O-4.7**

<b>Mitigation Action #7: Implement tree planting program</b>					
<b>Lead Agency/Department Organization:</b> Village Administration	<b>Supporting Agencies/Organizations:</b>	<b>Estimated Cost:</b> \$200,000 annually; Medium	<b>Potential Funding Source:</b> CIP	<b>Estimated Projected Completion Date:</b> Annual program - Ongoing	<b>Hazard(s) Mitigated:</b> Flooding, Severe Weather
<b>Year Initiated</b>	2014				
<b>Applicable Jurisdiction</b>	Village of Oak Park				
<b>Applicable Goal</b>	1,2,3,4,5,6				
<b>Applicable Objective</b>	3, 4, 10, 13				
<b>Cost Analysis (Low, Medium, High)</b>	Medium				
<b>Priority and Level of Importance (Low, Medium, High)</b>	High				
<b>Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)</b>	High				
<b>Action/Implementation Plan and Project Description:</b>	Trees are planted every year in Oak Park to increase water retention and canopy.				
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority</b>					
<b>Completion status legend:</b> <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	<p><b>O</b>                      Update from 2018: 4.7 In 2017, 555 trees were replanted and in 2018 it is anticipated that 604 trees will be planted.</p>				

**Action O-4.11**

<b>Mitigation Action #11: Support the county plan.</b>					
<b>Lead Agency/Department Organization:</b> Village Administration	<b>Supporting Agencies/Organizations:</b>	<b>Estimated Cost:</b> Low	<b>Potential Funding Source:</b> General Fund	<b>Estimated Projected Completion Date:</b> Short- and Long-term	<b>Hazard(s) Mitigated:</b> All
<b>Year Initiated</b>		2014			
<b>Applicable Jurisdiction</b>		Village of Oak Park			
<b>Applicable Goal</b>		1,5			
<b>Applicable Objective</b>		All			
<b>Cost Analysis (Low, Medium, High)</b>		Low			
<b>Priority and Level of Importance (Low, Medium, High)</b>		High			
<b>Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)</b>		Medium			
<b>Action/Implementation Plan and Project Description:</b>					
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority</b>		O			
<b>Completion status legend:</b> N = New; I = In Progress Toward Completion; O = Ongoing Indefinitely; C = Project Completed; R = Want Removed from Annex; X = No Action Taken/Delayed					

**Action O-4.12**

<b>Mitigation Action #: Actively participates in plan maintenance</b>					
<b>Lead Agency/Department Organization:</b>	<b>Supporting Agencies/Organizations:</b>	<b>Estimated Cost:</b> Low	<b>Potential Funding Source:</b>	<b>Estimated Projected</b>	<b>Hazard(s) Mitigated:</b> All

EMRS, Village Administration			General Fund	<b>Completion Date:</b> Short-term	
<b>Year Initiated</b>	2014				
<b>Applicable Jurisdiction</b>	Village of Oak Park				
<b>Applicable Goal</b>	1,5				
<b>Applicable Objective</b>	3,4,6				
<b>Cost Analysis (Low, Medium, High)</b>	Low				
<b>Priority and Level of Importance (Low, Medium, High)</b>	High				
<b>Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)</b>	Medium				
<b>Action/Implementation Plan and Project Description:</b>	Updates information as required and fulfills reporting requests				
<b>Actual Completion Date or Ongoing Indefinite</b>					
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <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	O				

**Action O-4.13**

<b>Mitigation Action #13: Update of the Village Emergency Operations Plan.</b>					
<b>Lead Agency/Department Organization:</b> Village Administration	<b>Supporting Agencies/Organizations:</b>	<b>Estimated Cost:</b> Medium	<b>Potential Funding Source:</b> General Fund	<b>Estimated Projected Completion Date:</b> Ongoing	<b>Hazard(s) Mitigated:</b> All
<b>Year Initiated</b>	2014				
<b>Applicable Jurisdiction</b>	Village of Oak Park				
<b>Applicable Goal</b>	1,2,3,4,5,6				
<b>Applicable Objective</b>	All				
<b>Cost Analysis (Low, Medium, High)</b>	Medium				

<b>Priority and Level of Importance (Low, Medium, High)</b>	Medium
<b>Benefits of the Mitigation Project (Loss Avoided or Issue Being Mitigated)</b>	Medium
<b>Action/Implementation Plan and Project Description:</b>	
<b>Actual Completion Date or Ongoing Indefinite</b>	
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <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	<p>O</p> <p>On September 17, 2017 the Village Board of Trustees approved a resolution approving and adopting updates to the Village of Oak Park Emergency Operations Plan and authorized its implementation. The updated plan included a "Concept of Operations", "Organization &amp; Responsibilities", "Direction &amp; Control", "Continuity of Government" and a detailed "Emergency Operations Checklist" specific to Public Works and the infrastructure of Oak Park</p>

**Action O-4.16**

<b>Mitigation Action #16: Climate Adaption Plan</b>					
<b>Lead Agency/Department Organization:</b>	<b>Supporting Agencies/Organizations:</b>	<b>Estimated Cost:</b>	<b>Potential Funding Source:</b>	<b>Estimated Projected Completion Date:</b>	<b>Hazard(s) Mitigated:</b>
Village Administration		\$134,000	VOP Sustainability Fund	Short-term	Drought, Flood, Lighting, Extreme Heat, Hail, High Wind, Snow, Blizzard, Extreme Cold, Ice Storms, Tornado, Widespread Power Outage
<b>Year Initiated</b>		2021			
<b>Applicable Jurisdiction</b>		Village of Oak Park			
<b>Applicable Goal</b>		1,2,3,4,5,6			
<b>Applicable Objective</b>					
<b>Cost Analysis (Low, Medium, High)</b>		Low—The project could be funded under the existing budget. The project is part of or can be part of an ongoing existing program.			

<b>Priority and Level of Importance (Low, Medium, High)</b>	Medium
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	Climate Change Resilience and Adaption Low—Long-term benefits of the project are difficult to quantify in the short term.
<b>Action/Implementation Plan and Project Description:</b>	The Village of Oak Park will develop a climate adaptation plan to aid in addressing a changing climate and associated events.
<b>Actual Completion Date or Ongoing Indefinite</b>	
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <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	O

**Action O-4.17**

<b>Mitigation Action #17: COVID-19 Mitigation</b>					
<b>Lead Agency/Department Organization:</b> Village Administration	<b>Supporting Agencies/Organizations:</b>	<b>Estimated Cost:</b> High	<b>Potential Funding Source:</b> FEMA Grants, State Grants, Local Funds, Explore outside sources of funding to support implementation	<b>Estimated Projected Completion Date:</b> Ongoing	<b>Hazard(s) Mitigated:</b> Epidemic/Pandemic
<b>Year Initiated</b>		2020			
<b>Applicable Jurisdiction</b>		Village of Oak Park			
<b>Applicable Goal</b>		2, 3, 4, 5, 6			
<b>Applicable Objective</b>					
<b>Cost Analysis (Low, Medium, High)</b>		High—Existing funding will not cover the cost of the project; implementation would require new revenue through an alternative source (for example, bonds, grants, and fee increases).			

<b>Priority and Level of Importance (Low, Medium, High)</b>	High
<b>Benefits of the Mitigation Project</b> (Loss Avoided or Issue Being Mitigated)	Minimize Loss of Life, Economic Productivity, and Minimize Virus Spread High—Project will provide an immediate reduction of risk exposure for life and property
<b>Action/Implementation Plan and Project Description:</b>	Vaccine Administration PPE Acquisition and Distribution
<b>Actual Completion Date or Ongoing Indefinite</b>	
<b>Project Status &amp; Changes in Priority</b> <b>Completion status legend:</b> <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	O

### Completed Actions

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

Completed Action Items
Update the Village Comprehensive Plan
Update of the Village Emergency Operations Plan.
Install overhead doors at all 3 fire stations. New doors will operate more quickly and be more reliable in improving/ensuring response time.
Implement the Green Alley Improvements and Public Works Facility Demonstration Rain Garden

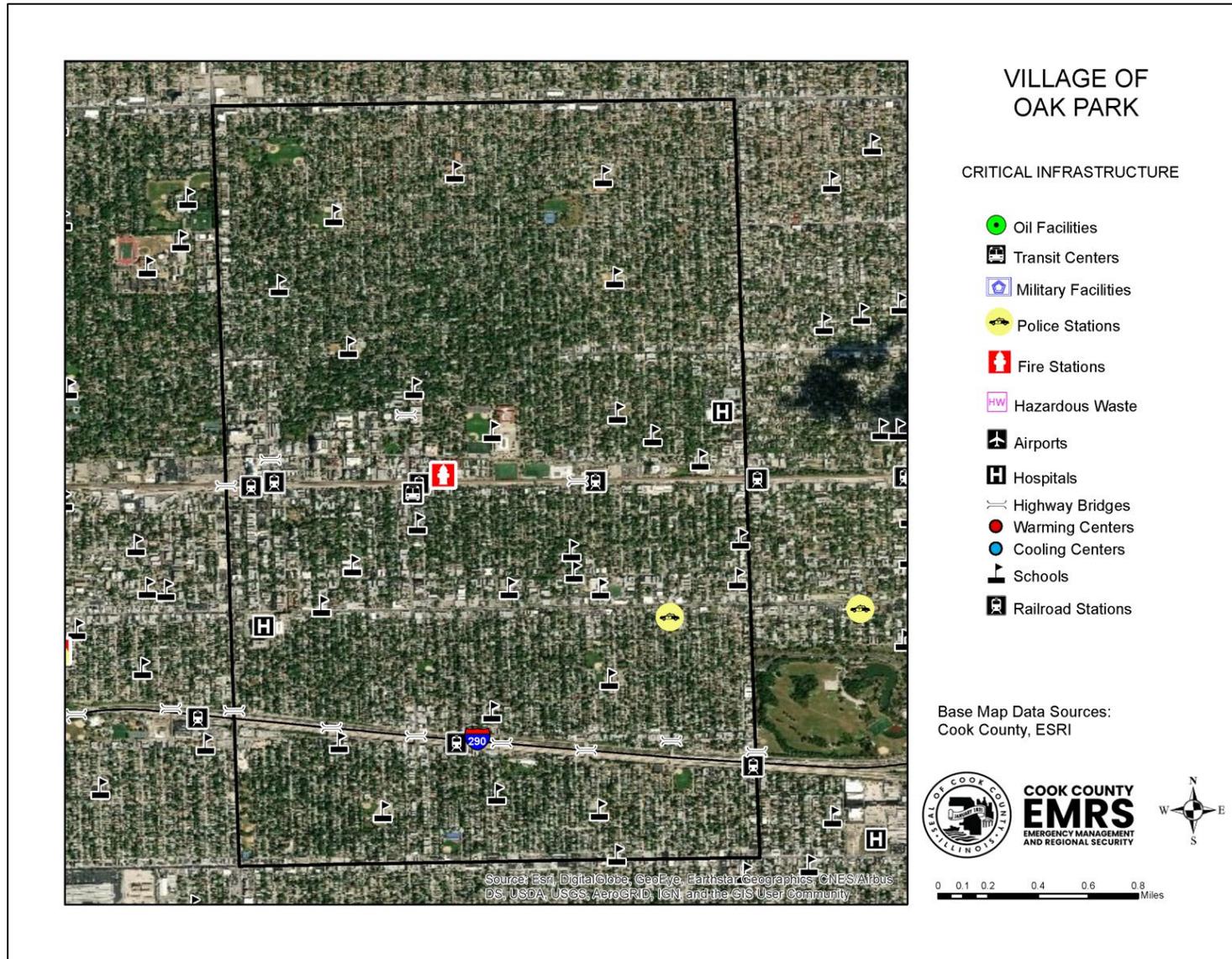
### Future Needs to Better Understand Risk/Vulnerability

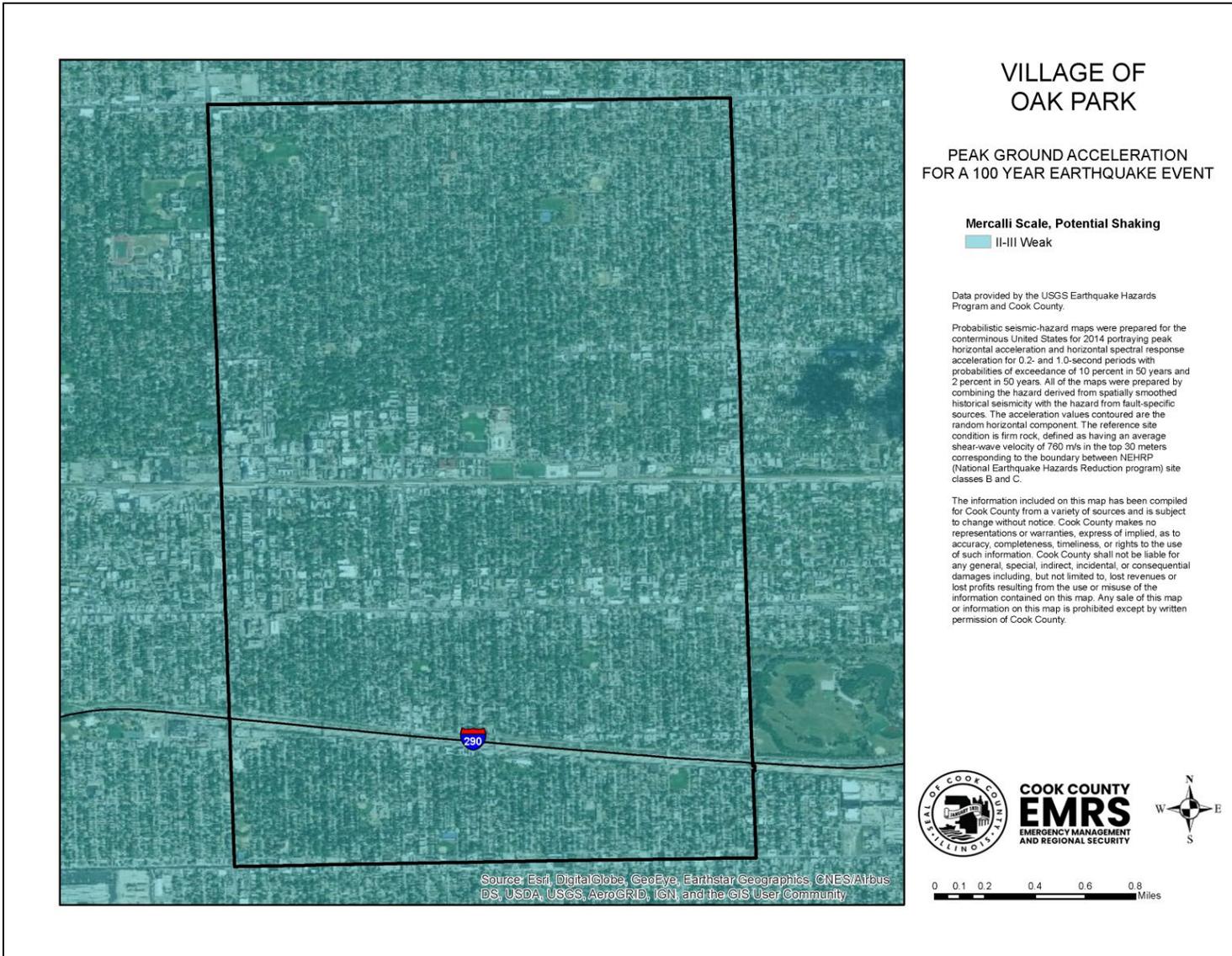
No needs have been identified at this time.

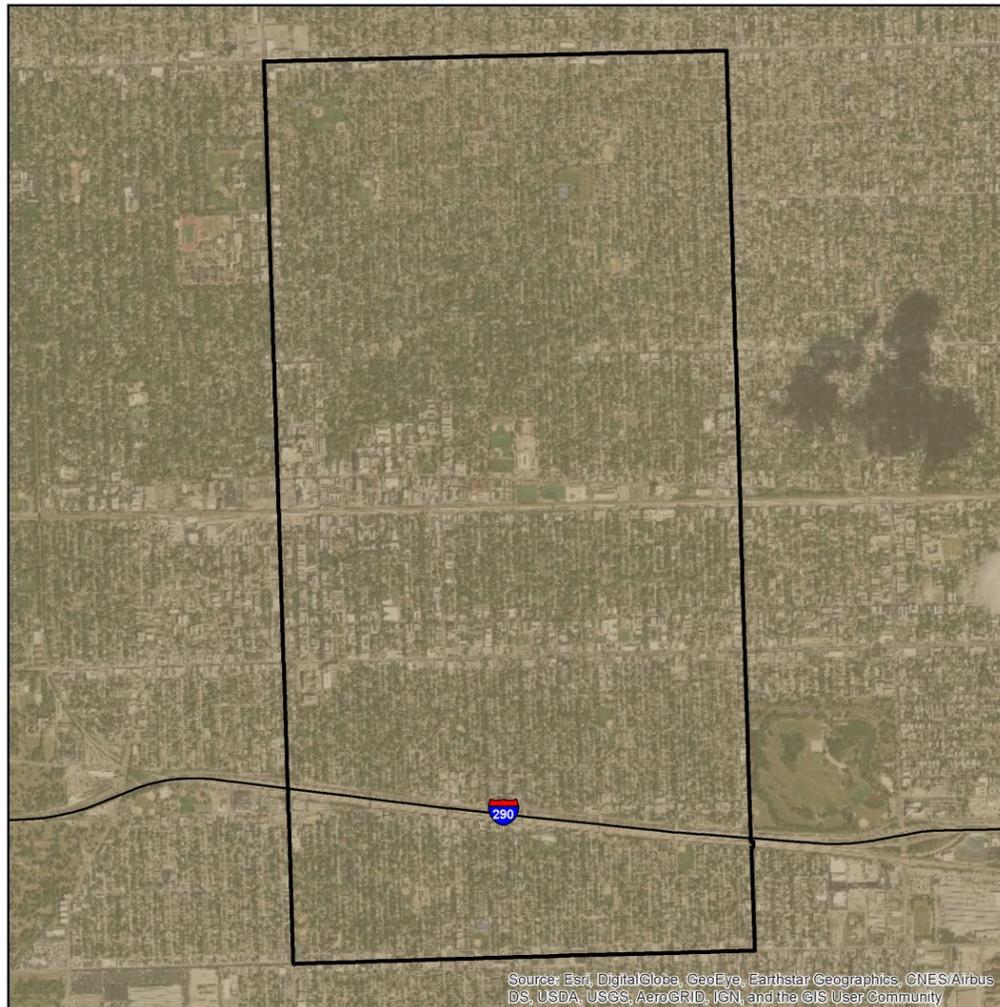
## **Additional Comments**

No additional comments at this time.

## Hazard Mapping







Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

## VILLAGE OF OAK PARK

### NATIONAL EARTHQUAKE HAZARD REDUCTION PROGRAM (NEHRP) SOIL CLASSIFICATION

#### TYPE

- C - Very Dense Soil, Soft Rock
- D - Stiff Soil
- F - Site Specific Evaluation

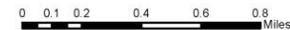
Data provided by the Illinois State Geological Survey and Cook County.

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 USGS Geologic Investigation Series I-2769 Map of Surficial Deposits and Materials in the Eastern and Central United States (East of 102 degrees West Longitude) by David S. Fullerton, 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 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.

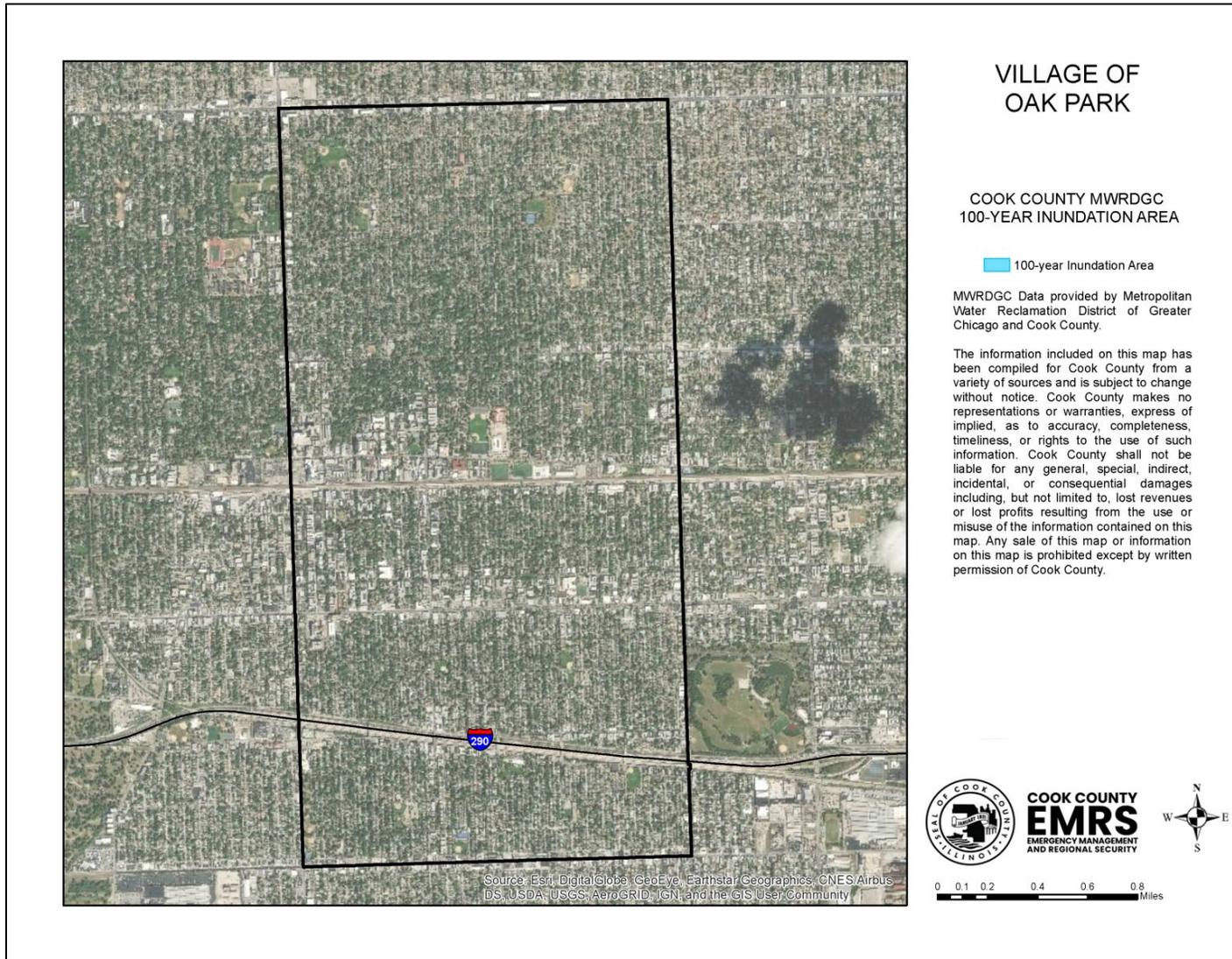
The information included on this map has been compiled for Cook County from a variety of sources and is subject to change without notice. Cook County makes no representations or warranties, express or implied, as to accuracy, completeness, timeliness, or rights to the use of such information. Cook County 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.

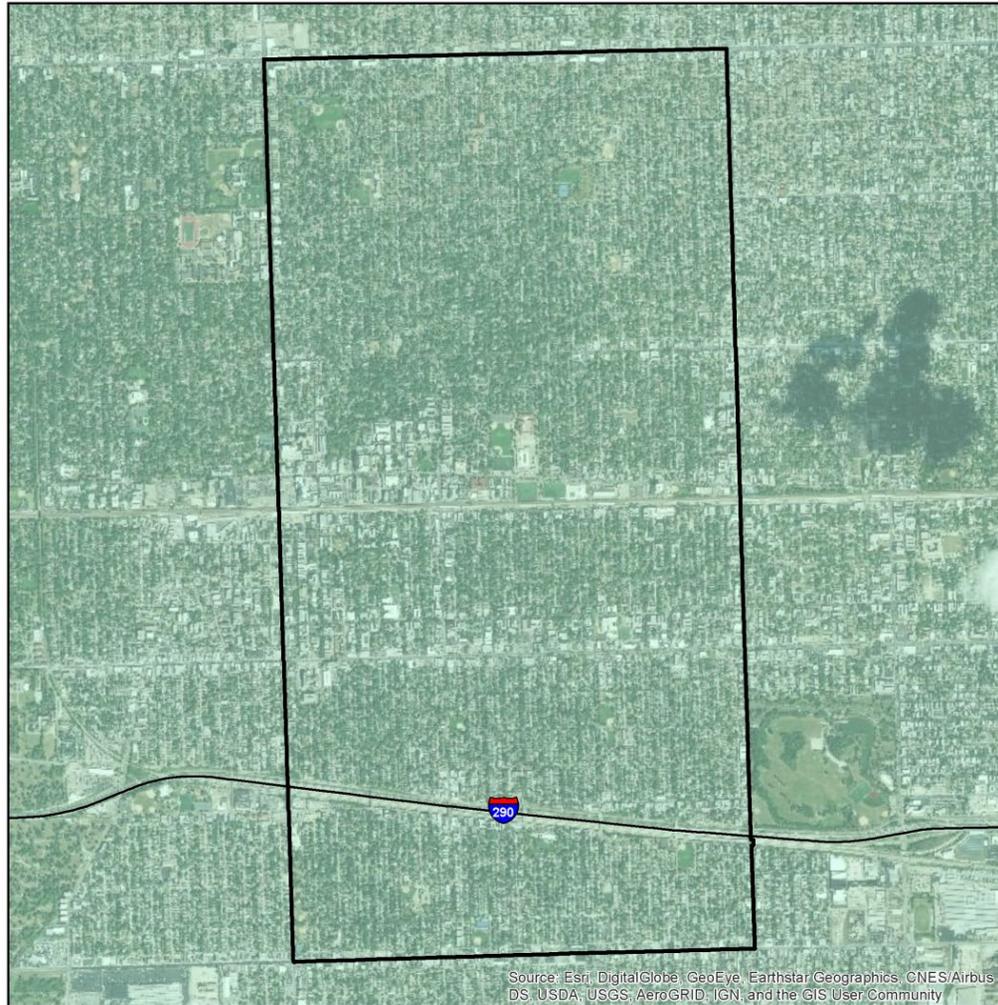


**COOK COUNTY**  
**EMRS**  
EMERGENCY MANAGEMENT  
AND REGIONAL SECURITY



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>.





Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

## VILLAGE OF OAK PARK

### LIQUEFACTION SUSCEPTIBILITY

#### LIQUEFACTION SUSCEPTIBILITY

- high
- low
- very low

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 USGS Geologic Investigation Series I-2769 Map of Surficial Deposits and Materials in the Eastern and Central United State (East of 102 degrees West Longitude) by David S. Fullerton, 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 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 or 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.



**COOK COUNTY**  
**EMRS**  
EMERGENCY MANAGEMENT  
AND REGIONAL SECURITY

