COOK COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN VOLUME 2 - Municipal Annexes

Evergreen Park Annex

FINAL

July 2019

Prepared for:



Cook County Department of Homeland Security and Emergency Management 69 W. Washington St., Suite 2600 Chicago, Illinois 60602

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Hazard Mitigation Point of Contact

Primary Point of Contact	Alternate Point of Contact
Ronald L. Kleinhaus, Fire Chief	Wiliam Lorenz, Director of Public Works
9000 S. Kedzie Ave	9418 S. Kedzie Ave
Evergreen Park, IL 60805	Evergreen Park, IL. 60805
(708) 422-2148	(708) 422-1551
rkleinhaus@evpkfd.org	<u>eppwl@hotmail.com</u>

Jurisdiction Profile

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

- Date of Incorporation: 1893
- Current Population: 19,325 as of 2018 U.S. Census population estimates.
- **Population Growth:** There has been a slow, but steady population decrease in Evergreen Park over the past 40 plus years. With a decrease of a little over 1 percent from 2010 to 2017.
- Location and Description: Evergreen Park is south suburb of Chicago in Cook County, located 16 miles south of the Chicago Loop. The Village is surrounded by the city of Chicago on three of its sides, while Oak Lawn and Hometown border it on the west. Chicago's Ashburn community is to its north, Beverly is to its east, and Beverly and Mount Greenwood are to its south. The village has a total area of 3.16 square miles. While the village remains small in size, it lays a mere seventeen miles southwest of the Loop. The Village is also currently surrounded by Chicago on the north, south, and east ends. Evergreen Park is also known as the "Village of Churches" because of its thirteen established religious congregations within close proximity.
- Brief History: The Village of Evergreen Park was incorporated on December 20, 1893. Prior to its incorporation, the village was sustained by approximately 500 regional residents. Strides to become a village occurred as a result of other Chicago suburbs requesting annexation in order to survive. The final decision to incorporate the village as its own entity separate from the City of Chicago was made by 41 out of 50 residents that showed up to vote on the matter. On that day, the Village of Evergreen Park officially occupied an area of four square miles. Today, the Village of Evergreen Park still rests on a four square mile area.
- **Climate:** The climate in the Village of Evergreen Park is classified as humid continental, with all four seasons distinctly represented: wet springs; hot/often humid summers; pleasant autumns; and cold winters. The average rainfall is 39 inches, and the average precipitation days are 124. The July high is around 84 degrees and the January low is 20 degrees.
- **Governing Body Format:** The Village of Evergreen Park is governed by the mayor, village clerk and 6 village trustees. This body will assume the responsibility for the adoption and implementation of this plan. Evergreen Park operated 8 departments including: Animal Control Department, Building Department, Fire Department, Office of Citizen Services, Police Department, Public Works Department, Recreation Department, and Youth Department.
- Development Trends: New developments within the past year include the site of the former Evergreen Country club being subdivided to provide more retail shopping and a recreation area for village residents. A new retail development at 91st St. & Western Ave. includes, Menards, Meijer, Michaels and Ross Clothing. A Marianos grocery store is being constructed on the site of a former car dealership at 95th St. & Washtenaw Ave. In 2017, a new retail market place opened, named the Evergreen Market Place, a contemporary outdoor mall replacing the former Evergreen Plaza anchoring the corner 95th Street and Western Avenue in Evergreen Park.

Capability Assessment

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

TABLE: LEGAL AND REGULATORY CAPABILITY					
	Local Authority	State or Federal Prohibitions	Other Jurisdictional Authority	State Mandated	Comments
Codes, Ordinances & Requ	irements				
Building Code	Yes	No	No	Yes	Ordinance 2 - 2013
Zonings	Yes	No	No	Yes	Chapter 25 - 2007
Subdivisions	Yes	No	No	No	Chapter 25 - 2007
Stormwater Management	No	No	Yes	Yes	State regulates industrial activity from Construction sites 1 acre or larger under section 302 CWA.
Post Disaster Recovery	No	No	No	No	
Real Estate Disclosure	No	No	Yes	Yes	(765 ILCS 77/) Residential Real Property Disclosure Act.
Growth Management	No	No	No	No	
Site Plan Review	Yes	No	No	No	Chapter 5 - 2010
Public Health and Safety	Yes	No	No	Yes	Chapter 9 - 1998
Environmental Protection	No	No	No	No	
Planning Documents					

General or Comprehensive Plan	No	No	No	No	
Is the	N/A				
Floodplain or Basin Plan	No	N/A	No	No	N/A
Stormwater Plan	Yes	Yes	No	Yes	N/A
Capital Improvement Plan	No	No	No	No	N/A
	What type	es of capital fac	cilities does the p	lan address?	N/A
		How often	is the plan revise	ed/updated?	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 Management Plan	No	No	No	No	N/A
Response/Recovery Planni	ng				
Comprehensive Emergency Management Plan	Yes	No	Yes	Yes	Cook County DHSEM
Threat and Hazard Identification and Risk Assessment	Yes	No	Yes	No	Cook County DHSEM Preparing THIRA
Terrorism Plan	Yes	No	Yes	Yes	Cook County DHSEM
Post-Disaster Recovery Plan	No	No	No	No	
Continuity of Operations Plan	Yes	No	Yes	No	Cook County DHSEM
Public Health Plans	No	No	Yes	No	Cook County DPH

TABLE: FISCAL CAPABILITY	PABILITY
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Financial Resources	Accessible or Eligible to Use?
Community Development Block Grants	Yes
Capital Improvements Project Funding	Yes
Authority to Levy Taxes for Specific Purposes	No
User Fees for Water, Sewer, Gas or Electric Service	Yes
Incur Debt through General Obligation Bonds	Yes
Incur Debt through Special Tax Bonds	No
Incur Debt through Private Activity Bonds	No
Withhold Public Expenditures in Hazard-Prone Areas	No
State Sponsored Grant Programs	Yes
Development Impact Fees for Homebuyers or Developers	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	Village Engineers		
Engineers or professionals trained in building or infrastructure construction practices	Yes	Village Engineers		
Planners or engineers with an understanding of natural hazards	Yes	Village Engineers		
Staff with training in benefit/cost analysis	No			
Surveyors	No			
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	No			

TABLE: NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE				
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?	No; No			
Note: Evergreen Park is participating in the NFIP with no mapped special flood hazard area.				

TABLE: COMMUNITY CLASSIFICATIONS				
	Participating?	Classification	Date Classified	
Community Rating System	No	N/A	N/A	
Building Code Effectiveness Grading Schedule	Yes	6	4/2013	
Public Protection/ISO	Yes	2	4/2013	
StormReady	Yes	Gold (Countywide)	2014	
Tree City USA	No	N/A	N/A	

Jurisdiction-Specific Natural Hazard Event

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: 0
- Number of FEMA-Identified Severe Repetitive Loss Properties: 0
- Number of Repetitive Flood Loss/Severe Repetitive Loss Properties That Have Been Mitigated: 0

TABLE: NATURAL HAZARD EVENTS						
Type of EventFEMA Disaster Number (if applicable)Date		Date	Preliminary Damage Assessment			
Snow Storm	FEMA-1960-DR-IL	1/31/2011 - 2/03/2011	\$61,833.97			
Snow Storm	EM-3161	12/11/2000	-			
Snow Storm	EM-3134	1/1/1999	-			
Snow Storm	EM-3068	1/16/1979	-			

Jurisdiction-Specific Hazards and Impacts

Hazards that represent a county-wide risk are addressed in the Risk Assessment section of the 2019 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: Extremely heavy rain causes urban flash flooding throughout the Village. All of the community is located within a high urban flooding susceptibility zone, therefore all property assets within the community carry at least some risk of flood damage.

Extreme Heat: Extreme heat impacts the Village's at-risk populations who do not have air conditioning.

High Winds: Previously, high winds have caused power outages throughout the Village. In 2011, a large tree was blown down on to power lines near 102nd and Wood Street.

Blizzards: Blizzards have caused school closings, interruption of business, and Village services.

Extreme Cold: Extreme cold events have caused school closings, interruption of business, and Village services.

Ice Storms: Ice storms have caused school closings, interruption of business, and Village services.

Tornado: The Village's infrastructure is vulnerable to tornado-caused damages.

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	Risk Rating Score (Probability x Impact)				
1	Severe Weather	54				
2	Severe Winter Weather	54				
3	Tornado	45				
4	Earthquake	12				
5	Flood	6				
6	Drought	2				
7	Dam Failure	0				

Mitigation Strategies and Actions

The heart of the mitigation plan is the mitigation strategy, which serves as the long-term blueprint for reducing the potential losses identified in the risk assessment. The mitigation strategy describes how the community will accomplish the overall purpose, or mission, of the planning process. In this section, mitigation actions/projects were updated/amended, identified, evaluated, and prioritized. This section is organized as follows:

- New Mitigation Actions New actions identified during this 2019 update process
- Ongoing Mitigation Actions Ongoing actions with no definitive end or that are still in progress. During the 2019 update, these "ongoing" mitigation actions and projects were modified and/or amended, as needed.
- Completed Mitigation Actions An archive of all identified and completed projects, including completed actions since 2014.

The *Hazard Mitigation Action Plan Matrix Table* below lists the actions that make up the jurisdiction's hazard mitigation plan. The *Mitigation Strategy Priority Schedule Table* identifies the priority for each action.

TABLE: HAZARD MITIGATION ACTION PLAN MATRIX						
Status	Hazards Mitigated	Objectives Met	Lead Agencies	Estimated Cost	Sources of Funding	Timeline/Projected Completion Date (a)
	Action E8.1 —Where appropriate, support retrofitting, purchase, or relocation of structures in hazard- prone areas to prevent future structure damage. Give priority to properties with exposure to repetitive losses.					
Removed	All	7, 13	Village of Evergreen Park	High	FEMA Hazard Mitigation Grants	Removed
Action E8.2	—Continue to	o support the	countywide action	ons identifie	d in this plan.	
Ongoing	All	All	Village of Evergreen Park	Low	General Fund	Short- and Long- term
Action E8.3—Actively participate in the plan maintenance strategy identified in this plan.						
Completed	All	3, 4, 6	DHSEM, Village of Evergreen Park	Low	General Fund	Completed
Action E8.4—Consider participation in incentive-based programs such as Tree City and StormReady.						

Ongoing	All	3, 4, 5, 6, 7, 9, 10, 11, 13	Village of Evergreen Park	Low	General Fund	Long-term
	Action E8.5—Continue to maintain the minimum National Flood Insurance Program participation requirement for communities with no mapped Special Flood Hazard Area.					
Ongoing	Flooding, Severe Weather	4, 6, 9	Village of Evergreen Park	Low	General Fund	Short-term and Ongoing
	—Integrate tl redevelopme		igation plan into	other plans	programs, or re	esources that dictate
Ongoing	All	3, 4, 6, 10, 16	Village Engineers	Low	General Fund	Short-term
					· ·	nents Program (CIP) mitigation actions.
Ongoing	All	1, 2, 7	Public Works	High	CIP component of General Fund (if implemented)	Long-term
Action E8.8	—Consider m	ass notificatio	on options for rec	duction of d	amage, injuries a	and/or deaths.
Ongoing	Severe Weather	1, 3, 5, 7	Fire Department	Medium	General Fund	Short-term
Action E8.9	—Upgrade se	enior citizens'	weather shelter.			
Complete	Severe Winter Weather	2, 3	Public Works	Low	General Fund	Completed
Action E8.1	0 —Upgrade e	emergency wa	arning system bas	sed on NOA	A notifications.	
Ongoing	Tornado	1, 3, 5, 7	Fire Department	Low	General Fund	Short-term
Action E8.1	Action E8.11—MU-15 Improve Household Disaster Preparedness.					
New	All	6	Fire Department	\$5,000; Low	Preparedness budget	2020
(a) Ongoing indicates continuation of an action that is already in place. Short-term indicates implementation within five years. Long-term indicates implementation after five years.						

·	TABLE: MITIGATION STRATEGY PRIORITY SCHEDULE							
Action Number	Number of Objectives Met	Benefits	Costs	Do Benefits Equal or Exceed Costs?	ls Project Grant- Eligible?	Can Project Be Funded Under Existing Programs/Budgets?	Priority (a)	
1	2	High	High	Yes	Yes	No	Medium	
2	13	Medium	Low	Yes	No	Yes	High	
3	3	Medium	Low	Yes	Yes	Yes	High	
4	9	Medium	Low	Yes	No	Yes	Medium	
5	3	Medium	Low	Yes	No	Yes	High	
6	5	Medium	Low	Yes	No	Yes	High	
7	3	High	High	Yes	No	No	Medium	
8	4	Medium	Medium	Yes	No	Yes	Medium	
9	2	Medium	Low	Yes	No	Yes	Medium	
10	4	Medium	Low	Yes	No	Yes	Medium	
11	1	Medium	Low	Yes	No	Yes	Medium	
(a) See Chapter 1 for explanation of priorities.								

New Mitigation Actions

The following are new mitigation actions created during the 2019 update.

Mitigation Action	MU-15 Improve Household Disaster Preparedness
Year Initiated	2019
Applicable Jurisdiction	Village of Evergreen Park
Lead Agency/Organization	Fire Department
Supporting Agencies/Organizations	Village Administration
Applicable Goal	 Protect the lives, health, safety, and property of the citizens of Cook County from the impacts of natural hazards.
Applicable Objective	 Use the best available data, science and technologies to educate the public and to improve understanding of the location and potential impacts of natural hazards, the vulnerability of building types and community development patterns, and the measures needed to protect life safety.
Potential Funding Source	Preparedness budget
Estimated Cost	\$5000
Benefits (loss avoided)	Increased citizen awareness
Projected Completion Date	2020
Priority and Level of Importance (Low, Medium, High)	Medium Priority
Benefit Analysis (Low, Medium, High)	Medium—Project will have a long-term impact on the reduction of risk exposure for life and property, or project will provide an immediate reduction in the risk exposure for property.
Cost Analysis (Low, Medium, High)	Low—The project could be funded under the existing budget. The project is part of or can be part of an ongoing existing program.
Actual Completion Date	

Recommended Mitigation Action/Implementation Plan and Project Description				
Action/Implementation Plan and Project Description:	 Encourage the purchase of hazard insurance. Encourage preparedness by stocking up on necessary items and planning how family members should respond during disasters. Providing hazard vulnerability checklists to residents for self-inspections. Promoting NOAA weather radios. Renew Village Storm Ready Designation. Store digital or hard copies of public records in low-risk off-site locations. 			

Mitigation Action and Project Maintenance

VOLUME 2: COOK COUNTY HAZARD MITIGATION PLAN – EVERGREEN PARK ANNEX

Year	Status	Comments
2019	New	
2020		
2021		
2022		
2023		

	Mitigated Hazards
Х	All Hazards
	Dam/Levee Failure
	Drought
	Earthquake
	Flood
	Extreme Heat
	Lightning
	Hail
	Fog
	High Wind
	Snow
	Blizzard
	Extreme Cold
	Ice Storms
	Tornado
	Epidemic or pandemic
	Nuclear Power Plant Incident
	Widespread Power Outage
	Coastal Erosion
	Secondary Impacts from Mass Influx of Evacuees
	Hazardous Materials Incident

Ongoing Mitigation Actions

The following are ongoing actions with no definitive end or that are still in progress. During the 2019 update, these "ongoing" mitigation actions and projects were modified and/or amended, as needed.

	TABLE: ACTION PLAN MATRIX				
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)			
# 2—E8.2	Continue to support county-wide actions identified in plan.				
Status Description: Yes	We continue to participate with CCDSHEM on training efforts.	0			
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken					

	TABLE: ACTION PLAN MATRIX				
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)			
# 4—E8.4	Consider participation in incentive based programs such as Tree City and Storm Ready				
Status Description: Yes	Village re-certified by NOAA as a Storm Ready Community	0			
C =	Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken				

TABLE: ACTION PLAN MATRIX				
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)		
# 5—E8.5	Continue to maintain the minimum National Flood Insurance Program participation requirement for communities with no mapped Special Flood Hazard Area.			
Status Description: Yes	Participation Continues	0		
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken				

TABLE: ACTION PLAN MATRIX					
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)			
# 6—E8.6	Integrate the hazard mitigation plan into other plans, programs or resources that dictate land use or redevelopment.				
Status Description: Yes	Added as reference to redevelopment planning.	0			
C =	Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken				

	TABLE: ACTION PLAN MATRIX		
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)	
# 7—E8.7	Consider the development and implementation of a Capital Improvements Incentive Plan (CIP) to increase the village regulatory, financial and technical capability to implement mitigation actions.		
Status Description: No	No action taken	0	
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken			

	TABLE: ACTION PLAN MATRIX				
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)			
# 8—E8.8	Consider mass notifications options for the reduction of damage, injuries and/or deaths.				
Status Description: Yes	Researching options.	0			
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken					

TABLE: ACTION PLAN MATRIX					
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)			
# 10—E8.10	Upgrade emergency warning system based on NOAA notifications.				
Status Description: Yes	In progress.	0			
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken					

Completed Mitigation Actions

The following section represents completed mitigation actions, and serves as an archive of identified and completed projects.

TABLE: ACTION PLAN MATRIX						
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)				
# 3—E8.3	Actively participate in the plan maintenance strategy identified in this plan.					
Status Description: Yes	scription: Annual review completed					
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken						

TABLE: ACTION PLAN MATRIX						
Action Number Action Taken Y/N	Action Item Description	Status (X, O, C, R, N)				
# 9—E8.9	Upgrade senior citizens' weather shelter.					
Status Description: Yes	tion: New community center being constructed.					
Completion status legend: N = New O = Action Ongoing toward Completion C = Project Completed R = Want Removed from Annex X = No Action Taken						

Future Needs to Better Understand Risk/Vulnerability

No needs have been identified at this time.

Additional Comments

No additional comments at this time

HAZUS-MH Risk Assessment Results

EVERGREEN PARK EXISTING CONDITIONS					
2010 Population	19,852				
Total Assessed Value of Structures and Contents	\$7,318,843,921				
Area in 100-Year Floodplain	000 acres				
Area in 500-Year Floodplain	000 acres				
Number of Critical Facilities	26				

HAZARD EXPOSURE IN EVERGREEN PARK								
	Number	Number Exposed Value Exposed to Hazard			% of Total			
	Population	Buildings	Structure	Contents	Total	Assessed Value Exposed		
Dam Failure	Dam Failure							
Buffalo Creek	0	0	\$0	\$0	\$0	0.00%		
U. Salt Cr. #2	0	0	\$0	\$0	\$0	0.00%		
Touhy	0	0	\$0	\$0	\$0	0.00%		
U. Salt Cr. #3	0	0	\$0	\$0	\$0	0.00%		
U. Salt Cr. #4	0	0	\$0	\$0	\$0	0.00%		
Flood								
100-Year	0	0	\$0	\$0	\$0	0.00%		

500-Year	0	0	\$0	\$0	\$0	0.00%
Tornado						
100-Year	—	_	\$1,423,046,134	\$1,183,620,020	\$2,606,666,153	35.62%
500-Year	—	_	\$2,040,151,667	\$1,548,478,265	\$3,588,629,932	49.03%

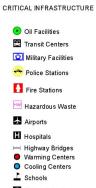
	ESTIMATED PR	OPERTY DAMAGE VALUES IN	EVERGREEN PARK	
	Estimated Damage Associated with Hazard			% of Total Assessed
	Building	Contents	Total	Value Damaged
Dam Failure				
Buffalo Creek	\$0	\$0	\$0	0.00%
U. Salt Cr. #2	\$0	\$0	\$0	0.00%
Touhy	\$0	\$0	\$0	0.00%
U. Salt Cr. #3	\$0	\$0	\$0	0.00%
U. Salt Cr. #4	\$0	\$0	\$0	0.00%
Earthquake				
1909 Historical Event	\$66,414,599	\$18,679,285	\$85,093,884	1.16%
Flood				
10-Year	\$0	\$0	\$0	0.00%
100-Year	\$0	\$0	\$0	0.00%
500-Year	\$0	\$0	\$0	0.00%

Tornado						
100-Year	\$142,304,613	\$118,362,002	\$260,666,615	3.56%		
500-Year	\$297,862,143	\$226,077,827	\$523,939,970	7.16%		

Hazard Mapping



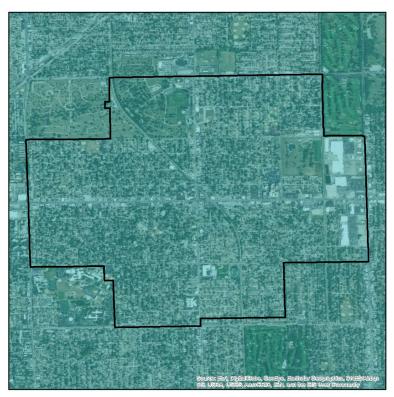




Railroad Stations

Base Map Data Sources: Cook County, ESRI





VILLAGE OF EVERGREEN PARK

PEAK GROUND ACCELERATION FOR A 100 YEAR EARTHQUAKE EVENT

Mercalli Scale, Potential Shaking

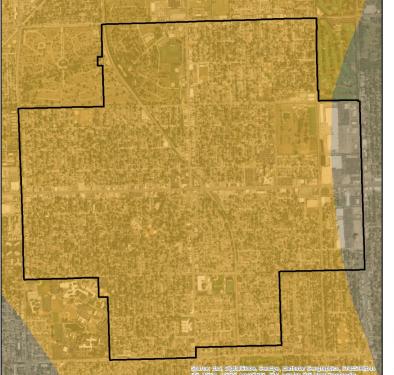
Data provided by the USGS Earthquake Hazards Program and Cook County.

Probabilities teatmini-bac and measures provides the contemmous United States to 2014 sporting peaks hord cotal accieration and hordonal spectral response excertainto not 20 and 10 second periods with probabilities of exceedance at 10 percent in 50 years and 10 second period with thistorical eleministic of the second period historical eleministic of 20 min in the site of contexton is firm cost, defined as having an average and ensawer webolic (27 do min in the site of corresponding to the boundary between KEHRP corresponding to the boundary between KEHRP (lease El and C.

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0.1 0.2 0.4 0.6 0.8 Mile



VILLAGE OF EVERGREEN PARK

NATIONAL EARTHQUAKE HAZARD REDUCTION PROGRAM (NEHRP) SOIL CLASSIFICATION

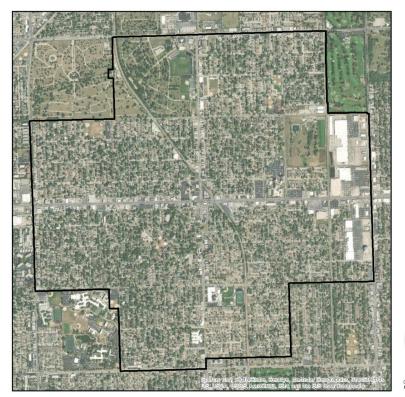
TYPE

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

Data provided by the Illinois State Geological Survey and Cook County. Data provided by the illinois Stude Geological Survey and Code County. The Central United States Earthquake Consortium (CUUSC) State Geological structures reprint) and State Liquefactors Survey Table States and States and States Using States and States States and States and States (States States) and States States and States and States (States States) and States States and States States (States States) and States States States and States (States States) and States States States States (States States) and States States States States States States (States States) and States States States States States States (States States) and States States States States States States (States States) and States States States States States States States (States States) and States States States States States States (States) (States States) and

bedrock which influences much of the amplification. The information included on this map has been controlled for Cack Courtly from a variety of sources and is abject to change without node: Cack Courtly makes no representations or warrantiles, express of implied, as to or source, completences, linelines, or prists to the use of such information. Could Courtly shall not be label for dimages including. Joint of Imridi of, both to remain dimages including. Joint of Imridi of, both termines or both profits resulting from the use or misuse of the information contained on this may argue of the information or information on the image. Any side of the map or information on the courts.





VILLAGE OF **EVERGREEN PARK**

COOK COUNTY MWRDGC 100-YEAR INUNDATION AREA

100-year Inundation Area

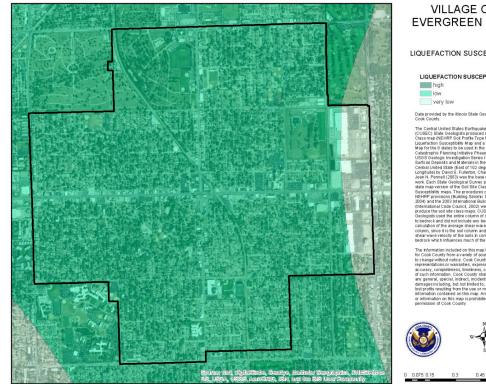
MWRDGC Data provided by Metropolitan Water Reclamation District of Greater Chicago and Cook County.

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DISCLAIMER: The Cook County MWRDGC DiscLander, The Cook County WWROCC 100-year involted to Agent and Agent regarding flood risk information regarding floodplains and invundation areas. This map is not regulatory. Official FEMA Flood Insurance Study information and regulatory maps can be obtained from http:// www.fema.gov.



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VILLAGE OF **EVERGREEN PARK**

LIQUEFACTION SUSCEPTIBILITY



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

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VILLAGE OF **EVERGREEN PARK**

100- AND 500- YEAR TORNADO EVENTS

Magnitude 4 (100 year event) 5 (500 year event)

Historic tornado data provided by NOAA/NWS showing the initial points and paths of all F4 and F5 events observed from 1950 to 2017.

