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**ANNUAL EVALUATION REPORT FOR
ALL NATURAL HAZARDS MITIGATION PLAN
2021 CALENDAR YEAR
FOR UNINCORPORATED LAKE COUNTY, ILLINOIS**

Prepared By: Lake County Planning, Building and Development Department

Prepared For: Lake County Public Works, Planning and Transportation Committee and
Lake County Board

October 5, 2022

INTRODUCTION

The Annual Evaluation Report assesses the implementation of goals described in the All Natural Hazard Mitigation Plan for Lake County, Illinois, within unincorporated Lake County, Illinois. All goal assessments are for the 2021 calendar year.

The Annual Evaluation Report for the All Natural Hazard Mitigation Plan within unincorporated Lake County, Illinois was prepared by the Lake County Planning, Building and Development Department. The Annual Evaluation Report was submitted to the Lake County Public Works, Planning and Transportation Committee, with a request to send the report to the Lake County Board for their information, and a Lake County Press Release was issued. The original [County-Wide All Natural Hazards Mitigation Plan](https://www.lakecountyil.gov/DocumentCenter/View/19601/Final-2017-Lake-County-All-Natural-Hazards-Mitigation-Plan-PDF?bidId=) (<https://www.lakecountyil.gov/DocumentCenter/View/19601/Final-2017-Lake-County-All-Natural-Hazards-Mitigation-Plan-PDF?bidId=>) and the [Annual Evaluation Report for the All Natural Hazards Mitigation Plan](https://www.lakecountyil.gov/2076/Reports-Studies) (<https://www.lakecountyil.gov/2076/Reports-Studies>) are available online.

Note: Lake County Stormwater Management Commission (LCSMC) prepares an annual evaluation of the ANHMP for all of Lake County annually, EXCEPT for the years in which the ANHMP plan is being updated. The 2022 Update of the plan began in early 2022, when the 2021 plan review would have taken place. Therefore, there is no 2021 annual evaluation report from SMC.

GOAL ASSESSMENT

Public Outreach

The Lake County Planning, Building and Development Department prepares an annual Repetitive Loss Area Mailing, which targets Repetitive Loss Properties and their surrounding repetitive loss area, and offers information on preparing for flooding, permanent flood protection measures, financial assistance, and flood insurance. The LCSMC also provides public outreach on flood related topics described above to the public through email messages, newsletters, and on social media. LCSMC also holds a workshop (every other year) for HOA's and homeowners on maintaining stormwater management features, flood prevention, and available resources, including grant funding opportunities. This workshop is scheduled for 2022.

Remove High Risk Structures from Floodplain or Protect High Risk Structures

The Lake County Planning, Building and Development Department approved four (4) permitted projects for elevating the finished floor of an existing structure to be above the regulatory floodplain elevation and four (4) permitted projects for either elevating utilities and/or adding foundation openings to bring the structures into compliance with the Lake County Unified Development Ordinance in 2021.

Mitigate All Repetitive Loss Structures Identified by FEMA

The Lake County Department Planning, Building and Development Department continually monitor repetitive loss properties identified by FEMA and work with homeowners to mitigate these structures when they are identified as substantially improved or substantially damaged. The Lake County Stormwater Management

Commission coordinates with the Lake County Planning, Building and Development Department to seek grant funding for homeowners interested in participating in the voluntary flood-prone property buyout program.

Improve Capacity of Drainage Systems

The Lake County Planning, Building and Development Department works tirelessly with citizens and coordinates with other agencies such as the Township Highway Commissioners and Lake County Stormwater Management Commission to respond to drainage complaints affecting private properties.

SMC's Annual Watershed Management Board (WMB) and Stormwater Infrastructure Repair Fund (SIRF) cost-share grant programs helps fund local stormwater projects. The highest funding priority is flood damage prevention/mitigation, but other project benefits are also included in funding decisions. In 2021, LCSMC approved funding for the following projects in unincorporated Lake County:

The Des Plaines River Watershed

The Fremont Township Highway Department was awarded funding for their West Shore Park Forest Lane drainage improvements located in Diamond Lake in unincorporated Mundelein. The project mitigates drainage issues at three locations by replacing/installing storm sewers, catch basins, permeable parking areas, and a swale.

The Libertyville Township Road District was awarded funding for the Liberty Prairie Area HOA's Bull Creek Drainage Improvements in unincorporated Libertyville Township. The project mitigates drainage issues by adjusting culvert size and locations, regrading sections of the channel to remove restrictions, and removing invasive plants and sediment accumulation from detention ponds to restore capacity.

The Fox River River Watershed

The Ela Township and Abbey Glenn HOA was awarded funding for their Abbey Glenn Drain Tile Replacement project in unincorporated Lake Zurich in Ela Township. The project mitigates flood hazards by replacing clay drain tile with PVC pipe and installing a new utility access hole and drain.

The Mylith Park Lot Owners Association was awarded funding for their Channel Maintenance project located in unincorporated Mylith Park in Wauconda Township. The project mitigates flood hazards by clearing the channel of non-native plants and woody debris.

Acquire Properties in Flood-Prone Areas

LCSMC pursues grant funding annually for projects that reduce flood damages and the risk of flooding. In 2020, SMC was awarded funding from the Illinois Department of Natural Resources, Office of Water Resources Flood Mitigation program to acquire and demolish two repetitive loss homes located in Antioch and Russell Township in unincorporated Lake County. Both properties have been acquired and have subsequently been demolished in 2022.

Implement Maintenance Programs for Drainage Systems

The Lake County Planning, Building and Development Department enforces the Lake County Code of Ordinances when reviewing and approving development plans. The Code requires all new drainage systems be maintained within drainage easements by a designated responsible party, and a Stormwater Management, Monitoring, and Maintenance Plan is required for systems involving a detention basin.

Reduce Inflow and Infiltration and Sewer Backups

The Lake County Public Works Department (LCPW) is committed to reducing sanitary sewer overflows caused by system inflow and infiltration. The annual Capacity Management, Operations and Maintenance (CMOM) program investigates and addresses inflow and infiltration, allowing the LCPW to take corrective measures and increase the capacity of the sanitary system when it is most needed, during critical rain events. As part of this program, the LCPW performs regular flow monitoring in all sanitary sewer service areas on an annual basis. The service areas include incorporated and unincorporated areas. Flow monitoring assesses field conditions and the impact of mitigation efforts, and the data informs further sanitary sewer evaluation studies, including smoke testing, dye testing, manhole inspections, and sanitary sewer main line televising and analysis. In 2021, LCPW completed modeling several interceptor sewers to assess I&I impacts and target I&I reduction strategies. In addition to identifying improvement projects to reduce I&I, these reports have informed maintenance activities to mitigate inflow and infiltration. One such project was lining sewer pipes in the Sylvan Lake community in the Hawthorn Woods area. LCPW continues to televise and clean sanitary sewers and perform preventative maintenance on pertinent portions of the sanitary sewer system to ensure the peak system capacity can be achieved.

Maintain Compliance with NFIP

The Lake County Planning, Building and Development Department has maintained its status as a National Flood Insurance Program (NFIP) Community, while maintaining its status as a Class 6 Community in the NFIP Community Rating System, resulting in up to a 20 percent reduction in flood insurance premiums for unincorporated residents.

RECOMMENDATIONS AND REVISIONS

The Lake County Planning, Building and Development Department will continue to maintain Community Rating System status and will continue to work to reduce flood damages within unincorporated Lake County, Illinois, enforcement of floodplain regulations on individual permits, and completion of public outreach projects. The Lake County Public Works Department will continue to monitor sanitary sewer infrastructure and will work to address inflow and infiltration and sewer backups. The Lake County Stormwater Management Commission plans to pursue funding on an annual basis to continue to purchase flood-prone properties throughout the County.