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**ANNUAL EVALUATION REPORT FOR
ALL NATURAL HAZARDS MITIGATION PLAN
2017 CALENDAR YEAR
FOR UNINCORPORATED LAKE COUNTY, ILLINOIS**

Prepared By: Lake County Planning, Building and Development Department

Prepared For: Lake County Planning, Building and Zoning Committee and Lake County Board

October 31, 2018

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 2017 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 Planning, Building and Zoning 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/3335/Lake-County-All-Natural-Hazards-Mitigation-Plan-2017-PDF) (<https://www.lakecountyil.gov/DocumentCenter/View/3335/Lake-County-All-Natural-Hazards-Mitigation-Plan-2017-PDF>) 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.

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.

Remove High Risk Structures from Floodplain or Protect High Risk Structures

The Lake County Planning, Building and Development Department approved two (2) permitted projects for elevating existing structures above the regulatory floodplain elevation to bring the structures into compliance with the Lake County Unified Development Ordinance in 2017.

Mitigate All Repetitive Loss Structures Identified by FEMA

Lake County Planning, Building and Development Department is continually monitoring repetitive loss properties and is working with homeowners to elevate these structures when they achieve substantial improvement or substantial damage status.

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.

The Lake County Stormwater Management Commission's (SMC) Stormwater Infrastructure Repair Fund (SIRF) assists in resolving inter-jurisdictional drainage and flooding related problems (i.e., stormwater management system infrastructure needs). In 2017, SMC approved funding for the following project in unincorporated Lake County.

The Columbia Bay Drive Drainage Improvement Project in Lake Villa Township adds 965 feet of new storm sewers to reduce flooding and structural damage to residential structures in the area.

SMC's Watershed Management Board (WMB) cost-share grant program 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 2017, SMC approved funding for the following projects in unincorporated Lake County:

The Des Plaines River Watershed

The Dady and Decker HOA Shoreline Protection Project in Warren Township replaced a failing seawall on northwest shore of Gages Lake and added a buffer strip along the shoreline to improve habitat and water quality.

The Diamond Lake Cooperative Preservation Strategy project in unincorporated Diamond Lake stabilized eroded shorelines on Wilderness Park South pond and produced the Diamond Lake Stewardship Guide to educate lake neighbors and the public.

The Fox River Watershed

The Fish Lake Drain Dredging & Shoreline Improvements Project in Grant Township will remove sediment and vegetation from the Fish Lake Drain to reduce erosion, sedimentation and flooding and replace turf grass along the shoreline with a native vegetation buffer to improving habitat and water quality.

Other SMC flood mitigation projects:

SMC launched countywide public and stakeholder input process to update the Comprehensive Stormwater Management Plan in 2016. The plan update process continued in 2017. Upon completion, the plan will be formally adopted.

The development of an "umbrella" watershed-based plan for entire Des Plaines River Watershed (Lake County portion) began in 2016. In 2017, the final draft plan was completed and submitted to IEPA for approval. Once approved, the plan will be adopted by Des Plaines River Watershed communities. The plan will identify priority action items for individual site-specific projects and watershed-wide programmatic actions to reduce flood damage potential.

SMC held a Floodproofing Expo in October 2017 in Libertyville to provide education and resources for minimizing structural flooding and flood damages. State and Lake County agencies, organizations, specialists, consultants and local vendors provided exhibits and resources for the more than 350 Lake County residents and property owners in attendance.

Acquire Properties in Flood-Prone Areas

The Lake County Stormwater Management Commission pursues grant funding annually for projects that reduce flood damages and the risk of flooding. In 2017, SMC submitted

applications for FEMA's Flood Mitigation Assistance (FMA) and Pre-Disaster Mitigation (PDM) programs to acquire and demolish flood damaged homes in Lake County. The FMA application was not funded and the PDM application is still identified for further review.

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 (LCPWD) 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 LCPWD 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 LCPWD 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 2017, the LCPWD conducted smoke testing for 66,370 lineal feet of sanitary sewer, and the testing identified observed defects, most of which were manholes and manhole covers. This report has informed maintenance activities to mitigate inflow and infiltration. The LCPWD 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 through the implementation of the Drainage Improvement Fund, 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.