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**ANNUAL EVALUATION REPORT FOR
ALL NATURAL HAZARDS MITIGATION PLAN
2016 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

November 8, 2017

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 2016 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.lakecountylil.gov/2369/All-Natural-Hazards-Mitigation-Plan) (<https://www.lakecountylil.gov/2369/All-Natural-Hazards-Mitigation-Plan>) and the [Annual Evaluation Report for the All Natural Hazards Mitigation Plan](https://www.lakecountylil.gov/2076/Reports-Studies) (<https://www.lakecountylil.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 three (3) 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 2016.

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 implements a Drainage Improvement Fund within unincorporated Lake County, Illinois. The purpose of the Drainage Improvement Fund is to improve the capacity of drainage systems. The following projects were partially funded by the Lake County Planning, Building and Development Department Drainage Improvement Fund in 2016:

- Nearly 400 feet of existing storm sewer was replaced.

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 2016, SMC did not approve funding for projects in unincorporated Lake County.

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 2016, SMC approved funding for the following projects in unincorporated Lake County:

The Des Plaines River Watershed

The Libertyville Township Casey Road Farmland Retirement and Restoration Project disabled 915 linear feet of drain tile and restored 105 acres of agricultural land to pre-development conditions.

The Ravinia and Hiawatha Terrace Land Bridge and Creek Restoration Project in unincorporated Mundelein replaced the old wood footbridge and stabilized the creek bed which has caused property damage in the area.

The Fox River Watershed

The Timberlake Bioswale and Stream Restoration Project stabilized 450 linear feet of actively eroding streambank and installed bioswales to reduce sedimentation in Timber Lake.

Other SMC flood mitigation projects:

SMC launched countywide public and stakeholder input process to update the Comprehensive Stormwater Management Plan in 2016. The plan is expected to be completed and adopted in 2017.

The development of an "umbrella" watershed-based plan for entire Des Plaines River Watershed (Lake County portion) began in 2016. The plan will provide priority action items to reduce flooding.

Acquire Properties in Flood-Prone Areas

The Lake County Stormwater Management Commission did not receive any FEMA Hazard Mitigation Assistance funding in 2016 to acquire and demolish flood damaged homes in Lake County.

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 backups caused by inflow and infiltration. The LCPWD performed flow monitoring within the Northwest, Northeast Central and Southeast sanitary sewer service areas in 2016 to determine where inflow and infiltration could be reduced while maximizing the results given the available funding. The service areas include incorporated and unincorporated areas. Based on the results of previous flow monitoring efforts, dye flooding was completed in 2016 in four (4) locations. Dye flooding assists in confirming

a cross connection between the storm sewer system and the sanitary system. This allows LCPWD to take corrective measures and increase the capacity of the sanitary system when it is most needed, during critical rain events. Per their Capacity, Management, Operation and Management (CMOM) Program the LCPWD has continued televising and cleaning sanitary sewers and performing 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.