



**City of Lakeland
Floodplain Management Annual Progress
Report April 2023**

The City of Lakeland adopted the Polk County Local Mitigation Strategy (LMS) which serves as the City's Floodplain Management Plan under the Community Rating System (CRS). Under CRS Activity 510 the City is required to maintain a Floodplain Management Planning Program and to complete a Floodplain Management Annual Progress Report that must then be provided to the public. This document serves as that report.

Adoption of the LMS / Updates

On August 18, 2015, the Polk County Board of County Commissioners adopted Resolution 15-098 which approved the County's designated portion of the Polk County Multi-Jurisdictional Local Mitigation Strategy. The County approved the most recent update to this document on September 1, 2020. This update was approved on April 19, 2021 by the City of Lakeland Resolution No. 5673. The LMS can be found on the Polk County Local Mitigation Strategy website, <https://polkcountylms.org/>.

Purpose and Objectives of the LMS

The purpose of the LMS is to develop a unified approach for dealing with identified hazards and hazard management problems, including flooding. The LMS serves as a tool to direct the City of Lakeland in its ongoing efforts to reduce vulnerability to the impacts produced by both natural and man-made hazards. The LMS also helps establish funding priorities for currently proposed mitigation projects and develops priority mitigation projects to be completed when funding becomes available.

The primary objectives of the LMS are to:

- Improve the community's resistance to damage from known natural, technological and societal hazards.
- Place the City of Lakeland in a position to compete more effectively for pre- and post- disaster mitigation funding.
- Reduce the cost of disasters at all levels.

- Expedite community recovery when disasters occur.

Local Mitigation Strategy Working Group

The City of Lakeland participates in the Polk County Local Mitigation Strategy Working Group (LMSWG) which was established to review and make recommendations concerning the LMS. The LMSWG consists of representatives from Polk County municipalities, local organizations and County government and is coordinated by staff of the County Emergency Management Division. The LMSWG last met on November 16, 2022 to discuss grant funding opportunities and evaluate programs enacted to deal with the Hurricane Ian aftermath.

Capital Improvements Plan

The City of Lakeland, through the approval of the City Commission, plans and implements a ten-year Capital Improvement Plan (CIP) for stormwater and drainage improvement projects. These projects are planned to reduce flooding and for maintaining the drainage facilities within the City.

The attached is the Stormwater CIP projects list that the City is currently implementing.

CRS Program Participation

The LMS references the importance and benefit of City of Lakeland's participation in the Community Rating System. As a participant, the City established flood protection measures and educational opportunities beyond the minimum requirements of the National Flood Insurance Program (NFIP). These efforts have allowed City of Lakeland to achieve a "Class 7" certification resulting in a 15% discount on flood insurance premiums for properties located in the Special Flood Hazard Area within the city limits.

The Florida State Emergency Management Division completed their Community Assistance Visit (CAV) determination and the results were made effective on April 1, 2021, regarding the City's participation in the National Flood Insurance Program (NFIP) and CRS program. The City's point total increased from the previous cycle visit; it went from 1629 points to 1707 points resulting in remaining in our current class. The next cycle visit will occur in 2024.

The City receives CRS credit points from a variety of activities that promote flood protection and education. These activities are conducted by various departments within the city. The following is a summary of some of these ongoing activities and the departments or divisions that perform the activity that results in credit points for the CRS program:

Activity	Department(s)/Division(s)	CRS Activity
Maintain elevation certificates, make copies of certificates available to the public	Building Inspection Division	310
Provide Flood Insurance Rate Map (FIRM) information, maintain updated FIRM panels	Building Inspection Division/ Lakes & Stormwater Division	320
Provide pamphlets to lenders, insurance agents and real estate offices regarding City services	Community Development/ Public Works Department	320
Provide outreach to community/ Flood protection information	Lakes & Stormwater Division/ Building Inspection Division	330
Provide credited hazard disclosure measures; information on recorded plats	Community Development/ Public Works Department	340
Provide flood protection assistance to residents in community	Building Inspection Division	360
Preserve floodplain in open space through zoning / Comprehensive Plan Land Use / public acquisition	Community Development Planning Division	420
Review new development for compliance with flood protection regulations	Community Development/ Public Works Department	430
Track substantial improvements / permitting to meet current requirements	Building Inspection Division/ Planning Division	430
Maintain and update flood data	Public Works Department	440
Enforcement of regulations for stormwater management	Building Inspection Division/ Public Works Department	450
Floodplain management planning	Community Development/ Public Works Department	510
Maintain drainage systems through a regular program and CIP plan	Construction & Maintenance Division	540
Enforce stream dumping regulations	Code Enforcement Division/ Lakes & Stormwater Division	540
Provides outreach material about flood warning and safety measures	Communications Department	610

Community Outreach

The City routinely engages in public outreach as part of the ongoing effort to educate and inform citizens about flooding and flood protection. Some of these include:

- Participating in the annual planned events which included information to assist citizens to prepare for the upcoming hurricane season. We discussed flooding and flood related issues caused by both natural and man-made sources including storms, poor drainage, and illegal dumping in streams, ditches, and drainage

structures.

- Placing signs in flood prone areas which indicate that flooding is likely during large storms and providing the estimated depth of floodwaters.
- Providing educational materials for local organizations to discuss potential or current flooding concerns relative to their industry.
- Attending City sponsored meetings where flooding is or may be a concern. Information is provided to citizens through the Communications Department.
- Developing and maintaining Flood Prevention and Floodplain Management pages on the City's website to provide information and resources intended to help citizens make educated flood-related decisions.
- Staffing two Certified Floodplain Managers in the Lakes & Stormwater Division as well as one in Engineering who are available to answer permitting questions and concerns as they pertain to development in the floodplain and to provide flood protection assistance. There is also interest in the Building Division in obtaining certifications within their department as well.
- Providing for Spanish version of materials related to flooding is included on the City's website.
- Providing a library of informative flood related brochures available to both the public and City of Lakeland staff.
- Maintaining a series of FEMA publications regarding flood protection and mitigation in the City library.

Certified Floodplain Manager Program

The Association of State Floodplain Managers (ASFPM) has established a national program for professional certification of floodplain managers. The program recognizes continuing education and professional development that enhances the knowledge and performance of local, state, federal, and private-sector floodplain managers. Three city staff members have achieved the Certified Floodplain Manager (CFM) designation. This reflects the City of Lakeland's continued commitment to professional service in implementing the floodplain management plan.

Comprehensive Plan Infrastructure Sub-Element

The City of Lakeland Comprehensive Plan was originally adopted in 1991, the

Lakeland Comprehensive Plan has been updated for the planning horizon of 2030. This update follows requirements of Chapter 163.177 of Florida Statutes and provides assessment of projected growth and demand for services for the coming decade. The Infrastructure Sub-Element of the Comprehensive Plan establishes objectives and policies for maintaining level of service of stormwater systems and protecting property from flood hazards. The City is currently operating under the 2020-2030 plan, information on it can be found on the following website:

<https://www.lakelandgov.net/departments/community-economic-development/planning-zoning/comprehensive-plan/>

Higher Regulatory Standards

Ordinance No. 5615 was adopted by the City Commission December 19, 2016. This ordinance established various technical amendments to the *Florida Building Code, Residential*. These amendments include raising the freeboard requirement for new buildings to 2 feet above base flood elevation or to the design flood elevation (whichever is higher) and modifying the definition of substantial damage to include two flood-related instances within a ten-year period that equal or exceed 25 percent of the market value of the structure prior to the damage occurring. These amendments further protect our citizens from future flood damage and increase our participation in CRS Activity 430.

Summary

Under CRS Activity 510 the City is required to complete a Floodplain Management Annual Progress Report and provide it to the public. This annual report update serves as meeting this requirement. This report provides a summary of CRS activities, and provides a list of stormwater related capital improvement projects to reduce flooding within the City of Lakeland. This report will be reflected in the meeting minutes and will be made available on the City's website:

<https://www.lakelandgov.net/departments/public-works/lakes-stormwater/flood-prevention/>

**STORMWATER FUND
CAPITAL IMPROVEMENT PLAN**

	Adjusted 2022 Budget	2023 Proposed	2024 Projected	2025 Projected	2026 Projected	2027 Projected	2028 Projected	2029 Projected	2030 Projected	2031 Projected	2032 Projected
Revenue											
General Revenue											
Stormwater Fees - Commercial/Municipal	3,241,366	3,544,000	3,579,000	3,615,000	3,651,000	3,688,000	3,725,000	3,762,000	3,800,000	3,838,000	3,876,000
Stormwater Fees - Residential	4,033,823	4,453,000	4,498,000	4,543,000	4,588,000	4,634,000	4,680,000	4,727,000	4,774,000	4,822,000	4,870,000
Stormwater Fees - Interfund	125,363	123,000	124,000	125,000	126,000	127,000	128,000	129,000	130,000	131,000	132,000
Interest on Pooled Investments	184,000	158,000	163,000	168,000	173,000	178,000	183,000	188,000	194,000	200,000	206,000
State Grants											
Lake Bonnet Drainage Improvement CBODG-MIT Grant	42,900,000	86,390									
Local Grants											
Aquatic Harvester	75,000										
Transfer from Internal Loan Fund											
Lake Bonnet Drainage Improvement CBODG-MIT Grant		2,226,371	905,371	905,371	905,371	905,371	905,371	905,371			
Unappropriated Surplus	3,530,588	(1,381,804)	(662,502)	(780,280)	(752,867)	(722,154)	(758,619)	6,837,019	(9,405)	(97,385)	(43,246)
Total Revenue	54,090,140	9,208,957	8,606,869	8,576,091	8,690,504	8,810,217	8,862,752	15,643,019	8,888,595	8,893,615	9,040,754
Expense											
Operating Expense											
Lakes and Environmental	1,794,637	2,188,831	1,993,000	2,052,000	2,113,000	2,176,000	2,241,000	2,308,000	2,377,000	2,448,000	2,521,000
Florida Taxable Pension Liability Reduction Note, Series 2020		29,961									
Contribution to Other Funds											
Emergency Manager	783	764	823	844	865	887	909	932	955	979	1,003
Retiree Bonus	918			918	918	918	918	918	918	918	918
Radio Replacement 2011	2,251	2,251	2,251	2,251							
Lake Bonny											
Lake Bonny Watershed Management Plan & Projects	365,199	150,000	100,000	50,000	25,000	25,000	25,000	10,000	10,000	50,000	50,000
Lake Gibson											
Water Quality Improvement Project	10,000	10,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	50,000
Lake Hollingsworth											
Lake Hollingsworth TMDL Program	478,712	300,000	200,000	200,000	100,000	100,000	50,000	50,000	50,000	50,000	100,000
Hunter/Beulah/Wire Watershed											
SWFMD - Lake Hunter BMP	22,604										
Lake Hunter - Watershed Management	206,536	100,000	150,000	100,000	100,000	50,000	50,000	50,000	50,000	50,000	50,000
Lake Parker											
SWFMD Lake Parker Restoration	160,000										
Lake Parker TMDL Project - WQ Treatment	616,277	300,000	350,000	550,000	300,000	350,000	350,000	150,000	150,000	50,000	50,000
Miscellaneous											
Install / Maintain Pollution Control Devices	46,891	60,000	80,000	80,000	80,000	80,000	85,000	85,000	85,000	90,000	90,000
Southern Landings Repairs	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Stormwater Management Master Plan	100,265	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
Drainage Maintenance Operations	1,124,734	1,113,492	1,000,000	1,100,000	1,200,000	1,250,000	1,300,000	1,400,000	1,450,000	1,500,000	1,550,000
Environmental Code Enforcement Officer	57,913	57,487	63,534	66,076	68,719	71,467	74,326	77,299	80,390	83,605	86,949
Highlands Hills Ditch Maint & Repairs	100,210										
CLMP - 2016 Update								250,000			
Upgrades to Office	50,000										
Drainage Capital Equipment	45,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000
Crystal Lake											
SWFMD Crystal Lake Water Quality Improvement Study Q178	183,755										
Crystal Lake TMDL	335,599	150,000	250,000	50,000	10,000	10,000	30,000	25,000	20,000	25,000	10,000
Lake Morton											
Water Quality Improvement Project	383,608	250,000	50,000	50,000	150,000	50,000	50,000	25,000	25,000	25,000	25,000
Lake Mirror											
Water Quality Improvement Project	257,575	250,000	150,000	50,000	50,000	50,000	50,000	25,000	25,000	25,000	25,000
Lake Beulah											
Water Quality Improvement Project	5,000	50,000	50,000	20,000	50,000	50,000	25,000	25,000	25,000	25,000	20,000

**STORMWATER FUND
CAPITAL IMPROVEMENT PLAN**

	Adjusted 2022 Budget	2023 Proposed	2024 Projected	2025 Projected	2026 Projected	2027 Projected	2028 Projected	2029 Projected	2030 Projected	2031 Projected	2032 Projected
Drainage Projects											
Retrofit Existing Storm Sewers	1,278,187	1,200,000	1,300,000	1,350,000	1,350,000	1,400,000	1,400,000	1,450,000	1,450,000	1,500,000	1,500,000
TV & Clean Storm Drain Structures	608,759	417,482	410,000	410,000	410,000	450,000	450,000	450,000	450,000	450,000	500,000
GIS Storm Sewer Inventory	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	
Wayman St. Ditch Repairs	311,652	10,000									
GIS Technician - Engineering	79,509	82,689	85,997	89,437	93,014	96,735	100,604	104,628	108,613	113,165	117,692
Lake Bonny Drainage Project	23,069	50,000									
Street Sweeping Operations	1,296,865	1,243,906	1,245,218	1,270,122	1,295,524	1,321,434	1,347,862	1,374,819	1,402,350	1,472,467	1,546,090
Heatpoint Stormwater Sewer Repair		20,939	20,939	20,940	20,940	20,939	20,939	20,939	20,939		
TV Truck Lease	58,429										
Office Furniture	2,500										
Drainage Maintenance Non-Capital Equipment	11,000										
Lakes and Environmental											
Lake Bonnet Drainage Improvement CBDG-MIT Grant	42,900,000	175,201	118,485	152,356	188,571	224,786	261,741	6,821,313			
NPDES Permitting - Administration	39,635	39,635	40,000	40,500	41,000	41,500	42,000	42,500	43,000	43,500	44,000
Public Education Programs	90,442	65,000	65,000	60,000	60,000	60,000	50,000	50,000	50,000	50,000	50,000
General Lake Improvements	465,000	350,000	450,000	450,000	500,000	500,000	500,000	500,000	500,000	350,000	300,000
Lake Helligsworth Southside Shoreline Stab	40,000	20,000					15,000			25,000	
Lake Bullah Shoreline Restoration	15,000		15,000								20,000
Lake Morton Shoreline Restoration	36,313	5,000					10,000	5,000			10,000
Contribution to FL Friendly Landscaping	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Aquatic Plant Management Plans											
Lake Bonnet Water Quality Improvement	90,156	100,000	50,000	20,000	150,000	25,000	10,000	20,000	150,000	15,000	15,000
Solid Waste/Lakes - 305 Eastside Property	25,639										
Replace Jon Boat			50,000			25,000				25,000	
Aquatic Harvester	274,518	181,309	188,622	195,647	202,953	210,551	217,453	216,671	234,230	240,981	248,102
Total Expenses	54,090,140	9,208,957	8,606,869	8,576,091	8,690,504	8,810,217	8,862,752	15,643,019	8,888,595	8,893,615	9,040,754
Unappropriated Surplus											
Beginning Balance	6,127,517	2,596,929	3,978,733	4,641,235	5,421,515	6,174,382	6,896,536	7,655,155	818,136	827,541	924,926
Sources / (Uses)	(3,530,588)	1,381,804	662,502	780,280	752,867	722,154	758,619	(6,837,019)	9,405	97,385	43,246
Ending Balance	2,596,929	3,978,733	4,641,235	5,421,515	6,174,382	6,896,536	7,655,155	818,136	827,541	924,926	988,172