

National Flood Insurance Program, Community Rating System City of Lakeland Activity 510 Progress Report

October 23, 2009

The City of Lakeland actively participates in the National Flood Insurance Program (NFIP) administered by Federal Emergency Management Agency (FEMA). In the program, the City is evaluated periodically and awarded credit points toward a better classification based on the City's various activities performed to promote flood prevention and to minimize flooding in the City. The City's Public Works and Community Development staffs have been working diligently to earn the City a better classification in this program. We have advanced from a Class 9 to a Class 7 within the last five years. Each advancing classification earns a reduction of 5% of the premium for flood insurance for the entire city. This is a worthy effort to promote flood prevention and to reduce flood insurance costs for the property owners in the city.

Attached is CRS Activity 510 Summary Progress Report for 2009.

Our Mission

A community working together to provide an exceptional quality of life.



Our Goal
To create an exceptional City that celebrates diversity; offers safe, attractive neighborhoods; economic opportunity; quality public spaces; cultural enrichment; and visual beauty.

**PUBLIC WORKS
ENGINEERING**

To: Ms. Heidi Liles, CFM, CRS Specialist, FEMA NFIP

From: Terry R. Ritter, P.E., Professional Engineer

Date: September 21, 2009

**Subject: CRS Activity 510 Summary Progress Report
Local Mitigation Strategy Implementation**

The City Commission for the City of Lakeland has approved a number of projects and programs designed to reduce flooding and have adopted a 10 Year Work Program. Please accept this as the City's formal yearly report under the ISO/CRS Program.

Through the Stormwater Utility various water quality and quantity projects are funded each year. The City has inspectors monitoring the Lake system and controls lake levels in a manner to prevent flooding. These programs are reviewed and approved by the City Administration. In addition, the City works jointly with the County on various projects with regards to maintenance of ditches, pipes, and drainage ways.

In addition to the City's Emergency Preparedness plan, projects are identified as residents call in and studies and evaluations are made to determine the cause of flooding and possible mitigation projects are identified. State agencies with jurisdiction permitting improvements have regulations that limit flooding potential as well as the City has some very stringent requirements as well.

Currently numerous initiatives are underway to reduce flooding and related damages. The following is a number of initiatives the City has taken to further flood plain mitigation:

Basin A

This is an HMGP project undertaken by the City to reduce flooding and enhance a primary floodway area and help reduce flooding downstream.

Basin B

This is an HMGP project undertaken by the City to reduce flooding and improve drainage. The project has been scheduled and will reduce additional flooding in a North Lakeland Neighborhood near the intersection of Baird Ave and Robson Street. The neighborhood will benefit from the additional drainage facilities to be installed.

Basin C

This is an HMGP project undertaken by the City to reduce flooding and Purchase flooded homes. The project has been completed and the North Florida Avenue neighborhood has already benefitted from the additional drainage facilities installed.

Basin D

This is an HMGP project undertaken by the City to reduce flooding and enhance a primary floodway area and help reduce flooding downstream.

Some other projects are also in progress and scheduled to take place in coming years. A copy of the 10 Year Work Program has been attached.

See Attachments:

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**STORMWATER
CAPITAL IMPROVEMENT PLAN**

	ADJUSTED 2009 BUDGET	2010 PROPOSED	2011 PROJECTED	2012 PROJECTED	2013 PROJECTED	2014 PROJECTED	2015 PROJECTED	2016 PROJECTED	2017 PROJECTED	2018 PROJECTED	2019 PROJECTED
REVENUES:											
Stormwater Utility Revenues-Commercial	2,050,860	1,985,000	2,005,000	2,025,000	2,045,000	2,065,000	2,086,000	2,107,000	2,128,000	2,149,000	2,170,000
Stormwater Utility Revenues-Residential	2,311,540	2,335,000	2,358,000	2,382,000	2,406,000	2,430,000	2,454,000	2,479,000	2,504,000	2,529,000	2,554,000
Stormwater Fees-Interfund	96,417	95,000	95,950	96,910	97,879	98,857	99,846	100,844	101,853	102,871	103,900
SWFWMD Grants:											
Lk. Hollingsworth Westside	363,398										
Lk. Parker - SW Basin BMPs	843,110										
Lk. Gibson SW Basin Design	750,132										
SOF/DEM Grants:											
N Lakeland Drainage Basin A	629,000										
N Lakeland Drainage Basin B	56,233										
N Lakeland Drainage Basin C	803,765										
N Lakeland Drainage Basin D	19,752										
FDEP Grants:											
Urban Restoration Initiative	258,819										
Miscellaneous Revenue	27,497										
Investments & Earnings	143,313	116,565	113,218	113,517	136,040	153,610	155,674	158,809	159,276	162,222	166,320
Unappropriated Surplus	3,215,123	191,731	30,717	(93,292)	106,142	(23,784)	(58,499)	30,438	(52,213)	(90,581)	(129,316)
TOTAL REVENUES	11,568,959	4,723,296	4,602,885	4,524,134	4,791,061	4,723,684	4,737,021	4,876,092	4,840,915	4,852,512	4,864,904
EXPENSES:											
Stormwater Projects	7,932,633	2,882,296	2,500,775	2,275,853	2,801,547	2,777,875	3,304,854	3,437,503	3,370,841	3,375,887	3,381,662
Drainage Projects	3,354,728	1,561,000	1,797,110	1,943,281	1,679,514	1,635,809	1,122,167	1,128,589	1,135,075	1,141,625	1,148,242
Lakes and Environmental Projects	281,598	280,000	305,000	305,000	310,000	310,000	310,000	310,000	335,000	335,000	335,000
TOTAL EXPENSES	11,568,959	4,723,296	4,602,885	4,524,134	4,791,061	4,723,684	4,737,021	4,876,092	4,840,915	4,852,512	4,864,904
UNAPPROPRIATED SURPLUS:											
Beginning Balance	4,075,768	860,645	668,914	638,197	731,489	625,347	649,131	707,630	677,192	729,405	819,986
Sources / (Uses)	(3,215,123)	(191,731)	(30,717)	93,292	(106,142)	23,784	58,499	(30,438)	52,213	90,581	129,316
Ending Balance	860,645	668,914	638,197	731,489	625,347	649,131	707,630	677,192	729,405	819,986	949,302

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	ADJUSTED 2009 BUDGET	2010 PROPOSED	2011 PROJECTED	2012 PROJECTED	2013 PROJECTED	2014 PROJECTED	2015 PROJECTED	2016 PROJECTED	2017 PROJECTED	2018 PROJECTED	2019 PROJECTED
STORMWATER PROJECTS											
Lake Bonny:											
Diagnostic Study			150,000								
Watershed Management Projects					250,000	850,000	950,000	750,000	750,000	425,000	
Lake Gibson:											
Southwest Basin Retrofit	626,537	750,000									
FDEP-Urban Restroation Initiative	517,638										
Lk Gibson SW Basin-Design	1,421,612	650,000									
Watershed Mgmt Plan and Projects						250,000					
Lake Hollingsworth:											
W Hollingsworth Stormwater Retrofit	1,110,559										
South Shoreline Erosion Repair	83,547										
Hunter/BeulahWire Watershed:											
Watershed Mgmt Plan and Projects			900,000	900,000	900,000						
Lake Parker:											
Lk Parker SW Basin BMPs	2,164,213										
Lk Parker SW Basin BMP Study	224,386										
North Lkld Stormwater Master Plan	415,949										
TMDL Project - W/Q Treatment							900,000	1,100,000	1,100,000	1,500,000	1,900,000
Lake John:											
Watershed Mgmt Plan and Projects						250,000					
Miscellaneous:											
Stormwater O&M	640,192	607,296	625,515	644,280	663,609	683,517	704,023	725,143	746,897	769,304	792,384
Repair and Maintenance of PCD's	87,000	88,000	94,000	95,000	96,000	97,000	98,000	104,000	110,000	112,000	114,000
Undesignated Equipment Leases	40,000										
Flood Control Automation Retrofit	75,000	200,000	200,000	100,000	100,000	100,000	100,000	100,000	100,000		
Drainage Maintenance Operations	526,000	526,000	531,260	536,573	541,938	547,358	552,831	558,360	563,943	569,583	575,278
Route Smart - Streetsweeper Ops.		15,000									
Crew Truck		46,000									
Highlands Hills Ditch Maint & Repairs					250,000						
CLMP - 2016 Update								100,000			
TOTAL STORMWATER PROJECTS	7,932,633	2,882,296	2,500,775	2,275,853	2,801,547	2,777,875	3,304,854	3,437,503	3,370,841	3,375,887	3,381,662

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	ADJUSTED 2009 BUDGET	2010 PROPOSED	2011 PROJECTED	2012 PROJECTED	2013 PROJECTED	2014 PROJECTED	2015 PROJECTED	2016 PROJECTED	2017 PROJECTED	2018 PROJECTED	2019 PROJECTED
DRAINAGE PROJECTS:											
Storm Sewer Inventory	31,898	50,000	50,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
TV & Cleaning Storm Drainage	125,000	125,000	125,000	125,000	125,000	125,000	150,000	150,000	150,000	150,000	150,000
Maint & Retrofit of Drainage Facilities	295,545	275,000	275,000	275,000	275,000	275,000	300,000	300,000	300,000	300,000	300,000
Drainage Study:											
Pinewood Avenue	228,661										
Street Sweeping Operations	611,000	611,000	617,110	623,281	629,514	635,809	642,167	648,589	655,075	661,625	668,242
N Lake Parker Ave Drainage Imp	11,786										
SOF/DEM N Lakeland Drainage Basin A	712,344										
SOF/DEM N Lakeland Drainage Basin B	57,426										
SOF/DEM N Lakeland Drainage Basin C	1,177,926										
SOF/DEM N Lakeland Drainage Basin D	19,752										
Mass Ave. & Plum St. Stormsewer Retro	83,390	500,000									
Shore Acre Subdivision (Fern Road)			520,000			420,000					
Curran St Stormwater Retrofit			25,000	160,000							
Wayman St. Ditch Repairs			50,000	500,000							
Deter Pit Retrofit			30,000	200,000							
Allamanda St & Horney Park Pump Retrofit			40,000		230,000						
Ruby Street in Lake Hunter Terrace			15,000		40,000						
East Highland Dr./Nunnswood Lane			50,000		250,000						
Lake John - Sommerset Weir Retrofit				30,000		150,000					
Charnes Drive					100,000						
TOTAL DRAINAGE PROJECTS	3,354,728	1,561,000	1,797,110	1,943,281	1,679,514	1,635,809	1,122,167	1,128,589	1,135,075	1,141,625	1,148,242
LAKES AND ENVIRONMENTAL PROJECTS:											
Contribution to LEAD	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000
Lake Improvement Projects	225,000	225,000	250,000	250,000	250,000	250,000	250,000	250,000	275,000	275,000	275,000
NPDES Permitting	1,598										
Public Education Programs	30,000	30,000	30,000	30,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000
TOTAL LAKES AND ENV. PROJECTS	281,598	280,000	305,000	305,000	310,000	310,000	310,000	310,000	335,000	335,000	335,000
TOTAL EXPENSES	11,568,959	4,723,296	4,602,885	4,524,134	4,791,061	4,723,684	4,737,021	4,876,092	4,840,915	4,852,512	4,864,904