



City of Palm Coast
Floodplain Management Annual Progress Report
September 2012

Executive Summary

The purpose of this document is to provide an annual account of activities associated with the City of Palm Coast ("City") Floodplain Management Program. This document facilitates information that can benefit public officials, businesses and the Citizens of Palm Coast.

The Flagler County Local Mitigation Strategy (LMS) serves as the City's Floodplain Management Plan under the Community Rating System (CRS) of the National Flood Insurance Program (NFIP).

Under CRS Activity 510, the City's is required to complete a Floodplain Management Plan annual progress report. This document serves as that report.

Annual Progress Report Development

This document was prepared by one (1) of the City Certified Floodplain Managers (CFM), Denise Bevan, and subsequently reviewed by the two (2) remaining City CFM staff, Constance Bentley and Kendra Iannotti. The referenced staff routinely conduct meetings to ensure that CRS Program activities are managed and processed throughout the year.

Mrs. Constance Bentley has been designated as the City's primary CFM. She manages the City's CRS program and facilitates updates throughout all City Departments. Further, Mrs. Bentley is the primary reviewer of elevation certificates during the building permit stage of development.

Mrs. Denise Bevan is the City Liaison for the Flagler County Local Mitigation Strategy Workgroup. Mrs. Bevan also participates in the development process as a Senior Environmental Planner and reviews land use changes, development agreements, plats, and site development applications.

Mrs. Kendra Iannotti actively participates in all CRS Program activities and CFM meetings. Mrs. Iannotti primary responsibility is within the Information, Technology and Communication Department but provides continued support to Mrs. Bentley and Mrs. Bevan.

Adoption of the LMS / Updates

The Flagler County LMS was adopted by *Resolution No 2011-66* by the City Council on June 7, 2011. The LMS is required to be updated every five years and is due for an update by June 14, 2016. This update was provided through the 2011 Annual Progress Report and is referenced herein due to no additional updates being required. The LMS working group has been meeting regularly to review and assess the LMS. As documented within the attached email correspondence (Attachment A), no additional projects have been applied since the annual update conducted in January 2012 for the City of Palm Coast. Project status of the listed projects is detailed further in the "List of Mitigation Initiatives" section.

Purpose and Objectives of the LMS

The purpose of the LMS is to develop a unified approach among County and municipal governments for dealing with identified hazard and hazard management problems, including flooding, in the Flagler County area. The LMS serves as a tool to direct the County and municipal governments in their ongoing efforts to reduce the vulnerability to the impacts produced by both natural and man-made hazards. The LMS also help establish funding priorities for current proposed mitigation projects and develop priority mitigation projects to be completed with such disaster assistance funds as may be available after a disaster.

The primary hazard mitigation goals, objectives, and guiding principles of the LMS are to:

Goal 1.0 Protect the citizens of Flagler County from natural and manmade hazards.

Goal 2.0 Provide public services during and after a disaster.

Goal 3.0 Reduce the vulnerability of critical and public facilities from the effects of terrorism, natural, manmade, and technological disasters.

Goal 4.0 Protect public and private property from disasters.

Goal 5.0 Make reasonable efforts to protect water resources, unique natural habitats, and ecologically sensitive areas such as wetlands and hardwood hammocks, and restore, to the maximum extent possible, degraded natural systems to their original site.

Goal 6.0 Improve coordination of disaster preparedness information to increase public awareness and participation in preparedness, response, recovery, and mitigation activities.

Flagler County Local Mitigation Strategy Workgroup

A Local Mitigation Strategy Workgroup has been established to review and make recommendations concerning the LMS. The Workgroup consist of representatives of local municipalities, local organizations and County departments, and is coordinated by staff of the County Emergency Management Division. The LMS Workgroup meets quarterly, at a minimum, and has submitted an update of the LMS and regularly reviews and revises its List of Mitigation Initiatives that are eligible for federal and state funding (i.e. Hazard Mitigation Grant Program (HMGP), Flood Mitigation Assistance (FMA) Program, etc.).

List of Mitigation Initiatives

The LMS Workgroup has established a List of Mitigation Initiatives. The list contains projects that are eligible for HMGP, FMA, and other federal and state funding. Many of the projects listed help to mitigate the potential of flood hazards.

See Attachment B to the report for the complete List of Mitigation Initiatives. As referenced in “Adoption of the LMS / Updates”, three (3) additional projects were added to the list in January 2012; however, the formal list will not be updated until the next update expected in 2013. This status was verified with Flagler County staff through an email correspondence (Attachment A).

1. Resolve Drainage Problems within the Bulldog Drive Community Redevelopment Area (CRA)
There are several small businesses and residences affected by flooding when heavy rains occur. The stormwater system has been isolated from its traditional patterns by new developments surrounding the neighborhood. A new drainage pattern needs to be designed and constructed to alleviate the current situation.
2. Land acquisition for permanent emergency access to Cypress Knolls
Currently, an access easement and stabilized road exists but crosses private ownership. If parcel is developed, a possibility exists that the emergency access may be eliminated. With public ownership of the access, a permanent secondary access is secured. Project includes lot acquisition and construction of access.
3. Remote monitoring and control of canal water levels and velocities
There are 20 structures that would be controlled, monitored, or monitored and controlled. As control structures are replaced electro / mechanical gates that can be remote controlled will be installed. Palm Coast currently has 2 gates installed with a third scheduled for 2012. Eventually, a total of 16 structures will be controlled remotely and all structures will have their water levels and velocities monitored.

Of the thirteen (13) originally listed projects, over half have been completed since being placed on the list. One of these projects, "Mitigate Weir Canal Palm Coast" line item, inventories all major planned weir projects. Of the referenced weirs, the following structures have associated updates. A figure has been attached to depict the locations of the listed structures.

- BA1 Weir: Completed
- R1 Weir: Completed
- BT2 Weir: Funded
- L4 Weir: Construction approved August 21, 2012
- I1, I4, I6, K1, L1 and M3: Future Projects

Beyond LMS projects, the City maintains a well-structured and rigid maintenance schedule of the stormwater drainage network which reduces the risk of flooding hazards.

The actions taken within the section(s) above are part of the City of Palm Coast 5-year Capital Improvement Program (CIP). The following Exhibit depicts the projects associated with maintaining the City's drainage and effective during the reporting timeframe of this report. The amended CIP for FY 12/13 is currently scheduled for final adoption on Wednesday, September 19, 2012 and will take effect on October 1, 2012.



Exhibit 8.3 5-Year Schedule of Capital Improvements

STORMWATER													
Project #	Project	FY 10/11	Funding Source	FY 11/12	Funding Source	FY 12/13	Funding Source	FY 13/14	Funding Source	FY 14/15	Funding Source	Total	Consistency with Other Plan Elements
55001	Swale Rehabilitation Program	865,000	SLF	882,300	SLF	899,900	SLF	917,900	SLF	936,300	SLF	4,501,400	Objective 5.3.1 and Policy 5.3.1.1
55002	Valley Gutter Improvements	75,000	SLF	76,500	SLF	78,000	SLF	79,600	SLF	81,200	SLF	390,300	Objective 5.3.1 and Policy 5.3.1.1
55003	Pipe Replacement	1,361,611	SLF	1,388,800	SLF	1,416,600	SLF	1,444,900	SLF	1,473,800	SLF	7,085,711	Objective 5.3.1 and Policy 5.3.1.1
55005	Control Structure Rehabilitation												Objective 5.3.1 and Policy 5.3.1.1
	Planning & Engineering	45,000	SLF	46,000	SLF	47,000	SLF	48,000	SLF	49,000	SLF	235,000	
	Construction	447,600	SLF	460,000	SLF	470,000	SLF	480,000	SLF	490,000	SLF	2,347,600	
	Total	2,794,211		2,853,600		2,911,500		2,970,400		3,030,300		14,560,011	

CPE = Capital Projects Fund, PTFE = Park Impact Fee Fund, SLF = Street Improvement Fund, SLF = Stormwater Utility Fund, TTF = Transportation Impact Fee Fund, UCFE = Utilities Capital Projects Fund

CIP = Capital Projects Fund, PIF = Park Impact Fee Fund, SIF = Street Improvement Fund, SLF = Stormwater Utility Fund, TIF = Transportation Impact Fee Fund, UCPF = Unfunded Capital Projects Fund

CRS Program Participation

The LMS references the importance and benefit of the City's participation in the Community Rating System (CRS) of the National Flood Insurance Program (NFIP). Under the CRS, the City undertakes flood protection measures beyond the minimum requirements of the NFIP. By doing so, the City has recently achieved a "Class 6" certification, resulting in a 20% discount of flood insurance premium issued with the Special Flood Hazard Area (SFHA) in the City.

The City achieves CRS points by undertaking various activities that promote flood protection. These activities are conducted by Floodplain Managers and various City departments. Following is a summary of certain ongoing activities by the Floodplain Managers and various departments resulting in points under the CRS program:

Activity	Departments	CRS Activity #
Collect, review, and maintain elevation certificates. Provide copies to the public.	Floodplain Managers/ Planning/ Zoning/ Stormwater and Engineering	310
Provide Flood Insurance Rate Map (FIRM) information. Provide Flood Zone Determination Letters to the public. Review, maintain and update FEMA Letters of Map Amendments or Revisions. Provide flood insurance information.	Floodplain Managers	320
Provide outreach to the community. Provide flood protection information.	Floodplain Managers	330
Provide flood protection information at the library and on City website	Floodplain Managers/ Information Technology/ Flagler County Public Library	350
Provide technical advice and assistance to public with flooding conditions. Annually publicize the service.	Floodplain Managers/ Stormwater and Engineering	360
Preserve floodplain in open space and public acquisition.	Planning	420
Maintaining higher regulatory standards. Provide low density areas for floodplain properties. Review new development for compliance. Enforcement of regulations.	Floodplain Managers/ Planning/ Stormwater and Engineering/ Building Department/ Code Enforcement	430
Maintain and use digitized maps. Day to day management of the floodplain. Maintenance elevation reference marks.	Floodplain Managers/ Information Technology/ Stormwater and Engineering	440
Stormwater management, soil and erosion control, and water quality. Review building elevation to meet floodplain regulations.	Stormwater and Engineering/ Planning/ Floodplain Managers	450
Maintain repetitive loss records. Provide yearly notice of property protection.	Floodplain Managers	502
Implement and update Floodplain Management Plan.	Flagler County/ Planning/ Capital Improvements/ Floodplain Managers	510
Enforce and publicize stream dumping regulations.	Floodplain Managers/ Stormwater and Engineering	540
Provide drainage system maintenance. Emergency response program.	Stormwater and Engineering/ Flagler County	610

Certified Floodplain Manager Program

The Association of State Floodplain Manager (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. As referenced, two (2) staff in the City's Planning Division and one (1) in the Information Technology and Communication Department have achieved the status of Certified Floodplain Manager (CFM), which reflects the City's commitment to professional services in implementing the City's Floodplain Management Plan.

Training

The City CFM staff has participated in many training sessions to maintain the required Continuing Education Units (CEU). Of these courses, two (2) activities were of particular focus in 2011.

1) Comprehensive Emergency Management Plan (CEMP): In close coordination with Flagler County Emergency Management representatives, the City has amended the CEMP to be current with State and federal requirements to ensure consistency and concurrency between local governments during a disaster response need. The CEMP is currently a draft with two (2) major sections, 1. Preparedness & Response 2. Recovery & Mitigation. Preparedness & Response has been completed with the remaining to be finalized in the upcoming months.

The City conducted a City-wide half-day training event on July 19, 2012 that provided a detailed overview of the purpose, design structure and staff responsibilities.

For the City, the purpose of the CEMP is:

- Provide uniform policies and procedures for responding to and recovering from disasters.
- Not intended to supersede the Flagler County CEMP but rather outline specific details relative to the operations of the City of Palm Coast.
- Is intended to be used as an internal guide for operations.

The CEMP is designed to accomplish the following:

- Minimize suffering, loss of life, personal injury and damage to property.
- Provide a framework for an emergency management system within the City.
- Minimize disaster related material shortages and service system disruptions.
- Provide immediate relief and promote short-range and long-range recovery following a disaster.
- Create a working document that would allow for the framework of the City Emergency Operations Center.

2) 2012 Community Rating System (CRS) Coordinator's Manual update: Since participation in the National Flood Insurance Program (NFIP), the City has utilized the 2007 edition of the CRS Coordinator's Manual. Currently, the draft manual is not expected to take effect before October 1, 2012; however, City CFM staff has been participating in webinars and direct conversation with designated ISO / CRS Coordinator to prepare for the changes. Numerous modifications are expected to take place in the release of this manual edition that may affect the City's ISO rating of "Class 6".

Outreach

City staff targets opportunities to initiate and partner with external agencies to educate the general public regarding floodplain management and associated effects on insurance policies and safety matters. Staff has participated in various events to promote flood awareness. Please see the following. In addition, the City provides a “Citizen Academy” that is designed to educate residents about the operation of city government which includes the City’s management of flood control and regulations. There are four (4) academies per year, and each class is limited to approximately 35 City of Palm Coast Citizens per session. Lastly, this report was released on September 20, 2012 to local media and via the City of Palm Coast “Week In Review” on September 21, 2012 to expand the reach of the information to the general public and elected officials. Please see Attachment C.

2012 Hurricane Expo-Flagler Prepares (July 28, 2012) (See attached flyer within Attachment C)



Denise Bevan, CFM providing flood zone designation information to a Citizen.



Constance Bentley, CFM and Denise Bevan, CFM at City of Palm Coast Expo booth.

Annual Arbor Day Event (May 5, 2012)



“Splash” educates about stormwater / flood control



Over 5,000 visitors attended the event



Summary

The LMS, which serves as the City’s Floodplain Management Plan under the CRS of the NFIP, was formally adopted by the City of Palm Coast City Council on June 7, 2011 with no significant modifications to date. As part of the LMS, the City accounts for “Mitigation Initiative Projects” and associated status. Two (2) weirs have been completed since the 2011 annual report with many other structures planned for rehabilitation / construction in future years.

City of Palm Coast continues to maintain a Class 6 certification under the CRS. Activities are undertaken by various City departments on an ongoing basis to retain the CRS certification, which results in substantial discounts to flood insurance premiums in the City of Palm Coast. City Certified Floodplain Managers continue to monitor the proposed 2012 CRS Coordinator’s Manual implementation and routinely coordinate with the region’s appointed ISO / CRS Coordinator.

City staff have broadened educational outreach beyond previous years. Annual events have become the new venue to reach the general public about floodplain management. In addition, staff has utilized City staff training to bridge awareness of a Comprehensive Emergency Management Plan update and implementation.

ATTACHMENT A

Flagler County Workgroup LMS Update Email

Denise Bevan

From: Jennifer L. Stagg <jstagg@flaglercounty.org>
Sent: Thursday, August 02, 2012 9:32 AM
To: Denise Bevan
Subject: RE: LMS Update

Thank you, Denise for keeping me posted.

*Thank you,
Jennifer Stagg
Phone: 386-313-4249
jstagg@flaglercounty.org*



From: Denise Bevan [mailto:dbevan@palmcoastgov.com]
Sent: Wednesday, August 01, 2012 6:24 PM
To: Jennifer L. Stagg
Subject: LMS Update

Hi Jennifer,

The City of Palm Coast has no new updates regarding LMS projects since the last release in January 2012.

Regards,

Denise Bevan
Senior Planner
City of Palm Coast
160 Cypress Point Pkway, Suite B-106
Palm Coast, FL 32164
Tel: 386-986-2458
www.palmcoastgov.com



PLEASE NOTE: Florida has a very broad public records law. Most written communications to or from City of Palm Coast officials and employees regarding public business are public records available to the public and media upon request. Your e-mail communications may be subject to public disclosure.

PLEASE NOTE: Florida has a very broad public records law. Most written communications to or from the Flagler County Board of County Commissioners and employees regarding public business are public records available to the public and media upon request. Your e-mail communications may be subject to public disclosure.

ATTACHMENT B

1. LMS Mitigation Initiatives List
2. LMS Project Location Figure

Table 5
Mitigation Initiative Projects List for Flagler County

LMS Goal	LMS Objective	LMS Ranking	Project Name	Project Description	Date Updated	Hazard/ Jurisdiction	Agency Resp	Time Frame	Possible Funding Source(s)	Mitigate New or Existing Buildings/ Infrastructure	Score	Project Status
Prevention												
1.0	1.5 Safe evac of residents	N/A	Emergency Access for Cypress Knoll Subdivision	Provide a permanent secondary emergency access route for the Cypress Knoll subdivision. Estimated costs \$300,000.00	3/22/2011	All Hazards/ Palm Coast	City of Palm Coast Planning Division	1-3 yrs	HMGP, Palm Coast Ad Valorem Taxes, CDBG	Existing Infrastructure	26	Completed
4.0	4.1 Reduce loss of personal and public property	2	Aerial Emergency Response Enhancements	Equipment enhancements for FireFlight in order to reduce loss of personal and public property.	3/24/2011	All Hazards/ All Jurisdictions	Flagler County Emergency Management	2 yrs	UASI	Existing Infrastructure	42	Deferred-funding
4.0	4.1 Reduce loss of personal and public property	6	Mitigate City of Bunnell Safety Complex	Bunnell to harden and/or retro-fit a Safety Complex for Public Safety	3/24/2011	All Hazards/ Bunnell	City of Bunnell Public Works Director/ Bunnell LMS Workgroup Representative	4 years	CDBG-R, HMGP, Bunnell Taxes	New Building	34	Deferred-funding
Property Protection												
3.0	3.3 Incorporate hazard mitigation measures	8	Mitigate FCSO Storage Capabilities	Harden and/or retro-fit facility which exceeds standard building codes for the storage of emergency equipment and materials. *Alternate use as a pet-friendly shelter	3/24/2011	All Hazards/ All Jurisdictions	Flagler County Sheriff's Office	2 yrs	HMGP, Ad Valorem Tax	New Building	27	Deferred-funding
2.0	2.3 Improve communications between agencies	N/A	City Wide 800MHz Radio System Upgrade	Completed	3/22/2011	All Hazards/ All Jurisdictions	City of Palm Coast Information Technology & Communications Department	1 yr	Ad Valorem Tax	Existing Infrastructure	30	Completed
3.0	3.3 Incorporate hazard mitigation measures	15	Storm Shutters for Palm Coast Public Works	Retrofit existing facility to mitigate against gale force winds	3/22/2011	Hurricanes/ Palm Coast	City of Palm Coast Utility/ Public Works Dept.	1 yr	HMGP, CDBG, Palm Coast Ad Valorem Tax	Existing Infrastructure	17	Deferred-funding
5.0	5.3 Retain public lands for public benefits	13	Flagler Beach Pier Damage Mitigation	Strengthen the design/structure of the ocean pier in the City to mitigate future damage caused by strong wind and wave action.	3/23/2011	Hurricanes/ Flagler Beach	Flagler Beach LMS Workgroup Representative	2 yrs	HMGP, Flagler Beach Ad Valorem Tax	Existing Infrastructure	22	In Process

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3.0	3.3 Incorporate hazard mitigation measures	4	Hardening of Critical Facilities	Enhancing critical facilities by hardening and/or retro-fitting existing structures to allow for sustainment of critical services during high wind events	3/24/2011	All Hazards/ All Jurisdictions	Flagler County Emergency Management	2 yrs	HMGP, CDBG, Ad Valorem Tax	Existing Infrastructure	38	Planning
5.0	5.3 Acquire public lands to provide public benefits	N/A	Long's Landing Land Acquisition	Acquisition of floodway area to mitigate future flood events and shoreline stabilization improvements	3/22/2011	Floods/ Palm Coast	City of Palm Coast Planning Division	3 yrs	HMGP, CDBG, Palm Coast Ad Valorem Tax	Existing Infrastructure	31	Completed
5.0	5.3 Acquire public lands to provide public benefits	N/A	Waterfront Park Land Acquisition	Acquisition of floodway area to mitigate future flood events and shoreline stabilization improvements	3/22/2011	Floods/ Palm Coast	City of Palm Coast Planning Division	2 yrs	HMGP, CDBG, Palm Coast Ad Valorem Tax	Existing Infrastructure	30	Completed
5.0	5.3 Acquire public lands to provide public benefits	N/A	Big Mulberry Branch Land Acquisition	Acquisition of floodway area to mitigate future flood events and shoreline stabilization improvements/ 41 lots acquired.	3/22/2011	Floods/ Palm Coast	City of Palm Coast Planning Division	4 yrs	HMGP, CDBG, Palm Coast Ad Valorem Tax	Existing Infrastructure	23	Completed
5.0	5.4 Protect public utilities	9	Mobile Pumps	Purchase 6" centrifugal mobile pumps to alleviate flooding and mitigate flood prone areas during a natural disaster. *Master Storm Water Plan	3/22/2011	Floods/ Palm Coast/ All Jurisdictions	City of Palm Coast Utility/ Public Works Dept.	1 yr	Palm Coast Ad Valorem Tax	Existing Infrastructure	26	Planning
5.0	5.4 Protect water sources, public utilities, natural habitats	10	Sand Bag Machine	Purchase sand bag machine for mitigation of property from effects of flooding	3/24/2011	Floods/ All Jurisdictions	City of Palm Coast Utility/ Public Works Dept.	1 yr	Palm Coast Ad Valorem Tax	New Infrastructure	25	Deferred-funding
5.0	5.4 Protect water sources, public utilities, natural habitats	11	Herbicide Equipment to Mitigate Weeds in Canal	Purchase equipment to control aquatic weeds in the canal to mitigate stormwater system mitigation capabilities	3/24/2011	Floods/ Palm Coast	City of Palm Coast Utility/ Public Works Dept.	1 yr	Palm Coast Ad Valorem Tax	New Infrastructure	24	Deferred-funding
3.0	3.2 Develop and maintain energy during periods of disrupted energy	7	Emergency Generators for Wastewater Pump Stations	Provide emergency power to critical pump stations and utilities in the wastewater collection system to mitigate repetitive loss properties. *Master Storm Water Plan	3/22/2011	Floods/ All Jurisdictions	All LMS Workgroup Representatives	2 yrs	Ad Valorem Tax	Existing Infrastructure	32	Planning
1.0	1.1 Maximize protection of public's safety	4	Flood Monitoring System	Remote multi-site flood monitoring system to mitigate repetitive loss due to flooding. *Included in Master Storm Water Plan	3/17/2011	Floods/ All Jurisdictions	Flagler County Emergency Management	1-1.5 yrs	Ad Valorem Tax, EMPA, HMGP	New Infrastructure	38	Planning
Public Education & Awareness												

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Mitigation Initiative Projects List for Flagler County

LMS Goal	LMS Objective	LMS Ranking	Project Name	Project Description	Date Updated	Hazard/ Jurisdiction	Agency Resp	Time Frame	Possible Funding Source(s)	Mitigate New or Existing Buildings/ Infrastructure	Score	Project Status
6.0	6.1 Education Program of preparedness & mitigation	14	Emergency Preparedness and Local Mitigation Strategy Educational Pamphlet	All hazard/ all jurisdiction flip page guidebook on all hazard preparedness for the residents of Flagler County as well as education on benefits of joining LMS Workgroup	3/22/2011	All Hazard/ All Jurisdictions	Flagler County Emergency Management	1-1.5 yrs	Ad Valorem Tax, EMPA, HMGP	New Infrastructure	20	Planning
Natural Resource Protection												
4.0	4.2 Protect natural resources	4	Flagler County Shore Mitigation Project	Mitigate and protect shoreline from increasing rate of erosion and deteriorating dune system	3/17/2011	Floods, Hurricanes/ Flagler Beach, Beverly Beach, Marineland	Flagler County Engineering	Immediate	HMGP, CDBG, Ad Valorem Tax	Existing Infrastructure	38	Waterfront Park & ICWW Trail Stabilized
1.0	1.1 Maximize protection of public	3	Wildfire Mitigation, Containment, and Suppression Improvements	Improve wildfire containment and suppression throughout Flagler County to mitigate wildland/ urban interface.	3/17/2011	Wildfires/ All Jurisdictions	Flagler County Emergency Services	Ongoing	HMGP, CDBG, Ad Valorem Tax	Existing Infrastructure	41	In process
Structural Projects												
4.0	4.1 Reduce loss of personal property	1	Mitigate Weir Canal Palm Coast	Mitigate Weir Canal Control Structure. Weir Projects: BA1- Complete; Ditch 10- Substantial Completion 3/2011; R1- Awaiting LMS update for federal funding release; Future Projects (listed by priority) #1- BT2 (Bird of Paradise), #2- I1, I4, I6 (3 sisters), #3- K1, #4- L1 #5- M3	3/22/2011	Floods, Hurricanes/ Palm Coast	City of Palm Coast Engineering & Stormwater Department	1-2 yrs	HMGP, Ad Valorem Tax	Existing Infrastructure	44	Added new projects
1.0	1.1 Maximize protection of public	4	Mitigate Public Safety Facilities	Procure equipment to harden and/or retro-fit public safety complex in order to provide a safe environment for public safety responders and citizens before, during, or after an emergency.	3/24/2011	All Hazards/ All Jurisdictions	All LMS Workgroup Representatives	1 yr	CDBG, Ad Valorem Tax, UASI, Homeland Security Grant	Existing Infrastructure	38	Planning
4.0	4.1 Reduce loss of personal property	10	Mitigate Stormwater System Equipment	Acquire Long Range Hydraulic Excavator to mitigate stormwater system pre-storm to prevent flooding	3/24/2011	Floods/ Palm Coast	City of Palm Coast Utility/ Public Works Department	1 yr	HMGP, CDBG, Ad Valorem Tax	Existing Infrastructure	25	Deferred-funding

Table Revised By FCEM on 3/30/2011

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Mitigation Initiative Projects List for Flagler County

LMS Goal	LMS Objective	LMS Ranking	Project Name	Project Description	Date Updated	Hazard/ Jurisdiction	Agency Resp	Time Frame	Possible Funding Source(s)	Mitigate New or Existing Buildings/ Infrastructure	Score	Project Status
5.0	5.4 Protect and enhance water sources, public utilities	15	Gravity Sewer Smoke Testing	Mitigate smoke testing in areas of gravity sewer that has a history of hydraulic overloading during wet weather	3/22/2011	Floods/ Palm Coast	City of Palm Coast Utility/ Public Work Department	1 yr	Ad Valorem Tax	Existing Infrastructure	17	In-process
4.0	4.1 Reduce loss of personal property	16	Mitigate Marineland Acres Repetitive Flooding	Mitigate drainage, elevation of structures, and other mitigation actions to prevent flooding in this repetitive flood area. *looking to retention on site. *Master Storm Water Plan	3/17/2011	Floods/ Marineland/ All Jurisdictions	Flagler County Planning Department	3 or more yrs	HMGP, Ad Valorem Tax	Existing Infrastructure	15	In-process
4.0	4.1 Reduce loss of personal and public property	5	Flagler Beach Stormwater Mitigation	Enhance plans to mitigate stormwater drainage problems throughout the city. *Master Storm Water Plan	3/23/2011	Floods/ Flagler Beach/ All Jurisdictions	Flagler Beach LMS Workgroup Representative	Ongoing	CDBG, HMGP, Ad Valorem Tax	Existing Infrastructure	35	Planning
4.0	4.1 Reduce loss of personal and public property	3	Bunnell Main Canal Mitigation	Mitigate blockage of water flow in Bunnell main canal causing flood threat to entire city. *Master Storm Water Plan	3/22/2011	Floods/ Bunnell/ All Jurisdictions	City of Bunnell Public Works Director	2 yrs	CDBG-R, HMGP, Bunnell Taxes	Existing Infrastructure	41	Planning
4.0	4.1 Reduce loss of personal and public property	3	Bunnell Stormwater Mitigation	Complete a comprehensive analysis of the Bunnell Stormwater System to effectively mitigate against repetitive loss/ future flooding. *include in master storm water plan	3/22/2011	Floods/ Bunnell/ All Jurisdictions	City of Bunnell Public Works Director	2 yrs	CDBG-R, HMGP, Bunnell Taxes	Existing Infrastructure	41	Deferred-funding
3.0	3.1 Designing and Installing water proofing components for critical facility	5	School Board Stormwater Mitigation	Engineering study to plan mitigation of longstanding stormwater drainage issues at FPC. *Master Storm Water Plan	3/18/2011	Floods/ Palm Coast/ All Jurisdictions	Flagler County School Board	2 yrs	HMGP, CDBG, School Board Tax	Existing Infrastructure	35	Planning
3.0	3.2 Develop and maintain energy during periods of disrupted energy	12	Mitigate PEP Panel	Mitigate PEP panel with enhanced panel equipment to allow power when interrupted and prevent future outages	3/22/2011	All Hazards/ Palm Coast	City of Palm Coast Utility/ Public Work Department	5 yrs	HMGP, Ad Valorem Tax	Existing Infrastructure	23	In-process



Figure 1: LMS Project Location Map
City of Palm Coast

2008 True Color Aerial
August 27, 2012 (DEB)

ATTACHMENT C

Outreach Materials

FLAGLER COUNTY PREPARES

Saturday, July 28, 2012

10 A.M. to 2 P.M.

Flagler County Emergency Operations Center

1769 E. Moody Boulevard, Building #3 in Bunnell

(Behind the Flagler County Government Services building)

2012 HURRICANE EXPO

JULY 2012						
SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Keynote Speaker:

Steve Letro

Meteorologist-in-Charge
National Weather Service,
Jacksonville

11:00 A.M. - 12:00 P.M.

Other Speakers:

Mal Locke

Florida Power & Light
10:30 A.M. - 10:50 A.M.

Troy Harper

Flagler County Emergency
Management

"Hurricane Preparedness"

12:30 P.M. - 1:10 P.M.

Jennifer Stagg

Flagler County Emergency
Management

"Preparing for Disasters: Your
Food and Drinking Water Supply"

1:15 P.M. - 1:40 P.M.

- Free Admission • Free Parking • Kid's Fun Activities • Gift Giveaways •
- Tours of the Emergency Operations Center •
- Informational Exhibits and Static Displays •

Presented by the Flagler County Board of County Commissioners and Flagler County Emergency Services



For more information, call (386) 313-4200

FlaglerEmergency.com