

# TOWN OF OCEAN RIDGE

6450 NORTH OCEAN BOULEVARD

OCEAN RIDGE, FLORIDA 33435

[www.oceanridgeflorida.com](http://www.oceanridgeflorida.com)

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DON MAGRUDER

## Floodplain Management Plan – September 2018 Annual Progress Report for the Town of Ocean Ridge, Florida

Ocean Ridge, Florida NFIP Number 125134

**1. Name of the CRS Floodplain Management Plan (LMS or other):**

Palm Beach County Unified Local Mitigation Strategy (LMS)

**2. Date Adopted:**

March 1, 2010

**3. Location where copies are available for review:**

Ocean Ridge Town Hall  
6450 N. Ocean Blvd., Ocean Ridge, FL 33435  
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**4. Summarize any floods that occurred during the year (if any):**

Ocean Ridge experiences inconsequential flooding on Inlet Cay Island due to lunar phased high tides during minor storm events. Other pooling areas occurred in mid-town (between Edith Street and Adams Road). The water dissipated within a few hours.

We have not been notified of any significant damages to any properties due to seasonal and natural flooding incidents that occasionally occur throughout Town.

**5. What impact did the floods have on the repetitive loss area:**

There has been no impact on the repetitive loss areas. Ocean Ridge did not experience any flooding in the repetitive loss areas or at any repetitive loss

structures.

**6. On a separate sheet (or use the back), list each element of the original plan and note how much was accomplished during the previous year:**

Ocean Ridge is a small coastal community located on a barrier island in Palm Beach County. The Town adopted the Countywide Local Mitigation Strategy (LMS) with Palm Beach County and in 1993 adopted its own Flood Damage Prevention Ordinance. The Town participates in the Community Rating System (CRS) Program and has a class 7 rating. Residents living in the Special Flood Hazard Area (SFHA) will receive a 15% reduction on their flood insurance premium and residents living outside of the SFHA will receive a 5% discount on their flood insurance premium.

Copies of the Town's Stormwater Drainage Plan, the current annual progress reports are available at Town Hall, and on the Town's website [www.oceanridgeflorida.com](http://www.oceanridgeflorida.com), and is made available to the local press. In addition, Palm Beach County is responsible for notification of the LMS to the public and media. Residents receive frequent e-newsletters and postings on the Town's website and social media containing hurricane, flooding, and other disaster preparedness information. Various flood preparedness and flood insurance materials are also available on the Town's website and also at Town Hall.

The Town continues to increase maintenance regiments to preserve drainage infrastructure. Planned on-going mitigation studies and possible updated drainage projects are to include the following: Mid-Town Drainage in conjunction with FDOT, Spanish River Drive on Inlet Cay Islands, and continued monitoring of the South Phase/Woolbright Detention Area Rehabilitation maintenance project ongoing. See attached detailed list for past, current, and future mitigation projects.

All catchment basins, outfalls, pipes, swales, ditches and the pump stations within the Town are thoroughly inspected quarterly by Engenuity Group, Inc. or by the Town's staff and is recorded in the Ocean Ridge NPDES Inspections booklet. The Town's Public Works Department conducts daily visual checks of catchment grates, swales, ditches, and the three pump stations during their rounds. The Town Hall notifies the Police Department (as needed), Public Works Department and Town Engineer (as needed) when residents notify the Town of any drainage, illicit discharge, and dumping issues. If any action is required, the Town Manager, Public Works Department, and/or the Police Department will inspect, coordinate with the Town Engineer and results annotated on the Drainage System Maintenance Log and recorded by the NFIP/CRS Coordinator. Other inspections and maintenance (NPDES, etc.) logs are kept on file at Town Hall.

Street sweeping is conducted quarterly by a contractor. The contractor sweeps a total of 18 curb miles of the total right-of-way (9 miles on each side) and removes an estimated 6 cubic yards of debris each quarter. This is disposed of in the

designated Town dumpster which is located behind the Public Works facility. The storm drains are cleaned out annually or as needed.

Approximately 63,360 linear feet of swales/ditches are inspected and maintained.

At the end of the calendar year, an annual National Pollutant Discharge Elimination System (NPDES) report will be submitted to the Florida Department of Environmental Protection.

On behalf of the Town, Engenuity Group, Inc. continues to review construction permit applications for compliance with Town ordinances for drainage, swale construction, and finish floor elevations. Projects increasing their impervious area by 10 percent or more are reviewed for code compliance. The Town's Building Official also continues to enforce the requirements of our Flood Damage Prevention Ordinance including freeboard of one foot above base elevation.

**7. Were any objectives not reached or is implementation behind schedule? If so, state why:**

The Town, Palm Beach County, Florida Department of Transportation and other applicable agencies are being consulted to identify alternative drainage solutions for the various projects throughout the Town.

**8. Should new projects be started or should any of the recommendations or objectives be revised:**

Ocean Ridge has no new objectives or recommendations for the County's LMS.

**9. Progress Report discussed and/or made available at a public meeting (attach copy of the minutes as documentation):**

The annual progress report will be presented to the Town Commission at the September 6, 2018 Regular Town Commission Meeting for approval. Copies of the final approved report will be made available to the public and the media via the Town's website [www.oceanridgeflorida.com](http://www.oceanridgeflorida.com).

For more information contact: Lisa Burns, NFIP Coordinator  
Phone: 561-732-2635



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## Drainage Concerns & Mitigation Projects

Current and Future Projects		
Problem Site	Drainage Issue	Recommended Measures
Mid-Town Drainage (Adams Road - Edith Street)	<ul style="list-style-type: none"> <li>Patches of pooling in isolated areas in mid-town</li> </ul>	<ul style="list-style-type: none"> <li>Currently coordinating with the County and FDOT to analyze future drainage solutions in 2018/19 fiscal year (FY19).</li> </ul>
Miscellaneous Projects Throughout Town	<ul style="list-style-type: none"> <li>Minor pooling and seasonal flooding</li> </ul>	<ul style="list-style-type: none"> <li>Continued to increased regular maintenance of infrastructure.</li> </ul>
Inlet Cay Island	<ul style="list-style-type: none"> <li>Isolated pooling in various areas. Natural spring flow may impact drainage</li> </ul>	<ul style="list-style-type: none"> <li>Continued to increased infrastructure maintenance.</li> <li>Analyzing solutions on an as-needed basis for future possible mitigation projects in 2018/19.</li> </ul>
Woolbright Detention Area	<ul style="list-style-type: none"> <li>Detention area is 14+ years old</li> <li>Clean out detention under drain pipes</li> </ul>	<ul style="list-style-type: none"> <li>Working with Town Engineer and other vendors on improving maintenance and drainage mitigation in the detention area. Improvements and increase of maintenance began in 2016-17 fiscal year and continues.</li> <li>Increased maintenance to improve water quality and vegetative needs.</li> </ul>
Bimini Cove Drive Area	<ul style="list-style-type: none"> <li>Asphalt deterioration</li> <li>Minor pooling</li> </ul>	<ul style="list-style-type: none"> <li>Seek core boring in asphalt to determine remedy in fiscal year 2018/19 (FY19)</li> </ul>
Town Ordinance	<ul style="list-style-type: none"> <li>Improve on-site drainage on private property for improvements and new construction permits</li> </ul>	<ul style="list-style-type: none"> <li>Potential Ordinance changes in fiscal year 2018-19 (FY19) to increase percentage of pervious area required; exclude septic tank and drainfield in calculations; exclude proposed underground tank installation.</li> </ul>



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Past Projects		
Problem Site	Drainage Issue	Recommended Measures
South Phase Project <ul style="list-style-type: none"> <li>• Douglas Drive</li> <li>• Oceanview Drive</li> <li>• Tropical Drive</li> <li>• Hersey Drive</li> <li>• Sailfish Lane</li> <li>• Fayette Drive</li> <li>• Osprey Drive</li> <li>• Dolphin Bend</li> <li>• Dolphin Drive</li> <li>• Beachway Drive</li> <li>• Beachway North</li> <li>• Osprey Court</li> <li>• David Lane</li> <li>• Adams Road</li> </ul>	<ul style="list-style-type: none"> <li>• Road flooding</li> <li>• Property damage</li> <li>• Access issues</li> <li>• Safety issues</li> <li>• Deteriorated piping</li> <li>• Undersized piping</li> <li>• No pretreatment</li> <li>• Basin lower than surrounding perimeter roads</li> <li>• Goundwater intrusion</li> <li>• Tidal influences</li> <li>• Limited/no swales</li> <li>• Deteriorated roads</li> </ul>	<ul style="list-style-type: none"> <li>• South Phase Project construction completed in 2007.</li> <li>• Continue to monitor pumping stations located on Tropical Drive and Woolbright Road.</li> <li>• Provided a permanent location for the Tropical Drive Pump Station generator.</li> <li>• Continue with swale implementation whenever applicable.</li> <li>• Douglas Drive, Oceanview Drive, &amp; Spanish River Drive mitigation completed in 2010.</li> </ul>
Harbour Drive South	<ul style="list-style-type: none"> <li>• Standing water in roadway</li> <li>• Tidal issues</li> <li>• Deterioration of drainage pipes</li> </ul>	<ul style="list-style-type: none"> <li>• Replaced several catch basins and pipes within right-of-way in 2007.</li> <li>• Red valve installed in 2008-09.</li> </ul>
Harbour Drive North	<ul style="list-style-type: none"> <li>• Standing water in roadway</li> <li>• Tidal issues</li> <li>• Deterioration of drainage pipes</li> </ul>	<ul style="list-style-type: none"> <li>• Cleaned and evaluated the pipe.</li> <li>• Pipe replaced in 2008-09.</li> <li>• Red valve installed in 2008-09.</li> </ul>
Hudson Avenue	<ul style="list-style-type: none"> <li>• Road flooding</li> <li>• Property damage</li> <li>• Road integrity diminished due to continued saturation of road</li> </ul>	<ul style="list-style-type: none"> <li>• Constructed a new elevated road</li> <li>• New drainage system constructed 2005/2006</li> <li>• Continue to monitor performance of improvements.</li> </ul>
Coconut Lane	<ul style="list-style-type: none"> <li>• Road flooding</li> <li>• Property damage</li> <li>• Low lying road and homes</li> <li>• Tidal issues</li> <li>• Cul-de-sac flooding</li> <li>• Access issues</li> <li>• Outfall issues</li> </ul>	<ul style="list-style-type: none"> <li>• Rehabilitated curbing and drainage – completed 2007</li> <li>• Pumping Station design complete. Permit issued.</li> <li>• West end of Coconut Lane construction completed in 2013.</li> </ul>
Town Hall	<ul style="list-style-type: none"> <li>• Drainage near jurisdictional wetlands</li> </ul>	<ul style="list-style-type: none"> <li>• Monitor site for any adverse encroachments.</li> <li>• Construction completed Fall 2008.</li> </ul>



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<b>Past Projects</b>		
<b>Problem Site</b>	<b>Drainage Issue</b>	<b>Recommended Measures</b>
Spanish River Drive	<ul style="list-style-type: none"> <li>Road flooding during high tide</li> <li>Deteriorating pipes</li> <li>Outfall issues</li> <li>Limited swales</li> <li>Collapsed outfall pipe</li> </ul>	<ul style="list-style-type: none"> <li>Replace road piping and catch basins.</li> <li>Replace red valve to address tidal issues.</li> <li>Install additional valley gutter for better flow of drainage. Construction completed August 2008.</li> <li>Additional Spanish River Drive mitigation completed in 2010.</li> </ul>
Eleuthera Drive	<ul style="list-style-type: none"> <li>Outfall pipe deterioration</li> <li>Roadway pipe deterioration</li> <li>Catch basins undersized</li> </ul>	<ul style="list-style-type: none"> <li>Replace outfall pipe and red valve.</li> <li>Replace road piping and catch basins.</li> <li>Construction completed August 2008.</li> </ul>
Bimini Cove Drive	<ul style="list-style-type: none"> <li>Outfall pipe deterioration</li> <li>Roadway pipe deterioration</li> <li>Catch basins undersized</li> </ul>	<ul style="list-style-type: none"> <li>Replace outfall pipe and red valve.</li> <li>Replace road piping and catch basins.</li> <li>Construction completed August 2008.</li> </ul>
State Road A1A North Ocean Blvd (FDOT Road)	<ul style="list-style-type: none"> <li>Periodic road flooding</li> <li>Property damage &amp; Safety issues</li> <li>Access issues</li> <li>Limited/No swales</li> <li>Obstructions in right-of-way</li> <li>Driveways without swales.</li> <li>Non-conforming driveways</li> </ul>	<ul style="list-style-type: none"> <li>FDOT completed improvements – February 2008.</li> <li>Continued coordination with FDOT on performance of improvements.</li> </ul>
Bonito Drive (cul-de-sac)	<ul style="list-style-type: none"> <li>Road flooding during heavy rains and high tide</li> </ul>	<ul style="list-style-type: none"> <li>Cul-de-sac drainage improvements completed in 2013.</li> </ul>
Inlet Cay (cul-de-sac)	<ul style="list-style-type: none"> <li>Constant flooding and poor drainage</li> </ul>	<ul style="list-style-type: none"> <li>Repair began in 2013 on three roads and have been completed.</li> </ul>
Thompson Street	<ul style="list-style-type: none"> <li>Drainage and flooding problems</li> </ul>	<ul style="list-style-type: none"> <li>Repairs began February 2014 and have been completed.</li> </ul>
Bimini Cove Drive	<ul style="list-style-type: none"> <li>Valve of discharge pipe malfunction</li> </ul>	<ul style="list-style-type: none"> <li>Contractor has inserted a red valve to correct a break in line in May 2014.</li> </ul>
Eleuthera Drive	<ul style="list-style-type: none"> <li>Flooding and high ground water in cul-de-sac</li> </ul>	<ul style="list-style-type: none"> <li>Raised the road to eliminate flooding. Projected will began August 2014 and has been completed.</li> </ul>
Ixora Way	<ul style="list-style-type: none"> <li>Repair work</li> </ul>	<ul style="list-style-type: none"> <li>Repair/reinstall existing drainage outfall from Woolbright. Work began in early 2015 and has been completed.</li> </ul>
Hudson Avenue	<ul style="list-style-type: none"> <li>Alley flooding behind 4 &amp; 6 Hudson Avenue</li> </ul>	<ul style="list-style-type: none"> <li>Berm up sides and added fill to prevent flooding. Project completed September 2015.</li> </ul>