



Florida Department of Environmental Protection
Water Quality Restoration Program

Upper Ocklawaha Basin Working Group

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Florida Department of Environmental Protection

LOADING REDUCTIONS AND ALLOCATIONS UPPER OCKLAWAHA BASIN





Outline of Approach

- Models updated with 2009 land use.
- Models used land use data, EMCs, and imperviousness to estimate loading from different sources.
- TMDL water quality targets and loading targets **DO NOT CHANGE!**
- Starting loading or baseline is adjusted.



Approach

- Used GIS to translate sources of loading by location.
 - Created land use database.
 - Includes lake basin and sub-basin for each land parcel.
 - Jurisdiction assigned to each land parcel.
- Mapped modeled categories of land use for each jurisdiction.
- Separate categories for all agriculture, muck farms, natural lands, and water/wetlands, and developed lands.
- Focus on developed land uses that generate urban stormwater.



Approach

- Aggregated developed land use into 3 categories.
 - High intensity.
 - Medium intensity.
 - Low intensity.
- Portion or percent of each developed land use category calculated by jurisdiction.
- Acres (portion) of a land use category within a jurisdiction as a percent of the total acreage for that land use in the entire basin.
- This percent area is the basis for all calculations of loading reductions and allocations.



Data Updates

- Used December 2015 Lake County city boundaries.
- If land not in a city, by default assigned to county.
- Calculated education credit.
 - Except for Lake Apopka basin.
 - To do this estimated stormwater loading by jurisdiction.
- Estimated reductions from agriculture BMPs.
- Palatlahaha changes. Estimated Turnpike area.
- Updated project summary tables.
- Updated nutrient loading budget or tracking spreadsheets.

DACS Enrollment-Location of NOIs

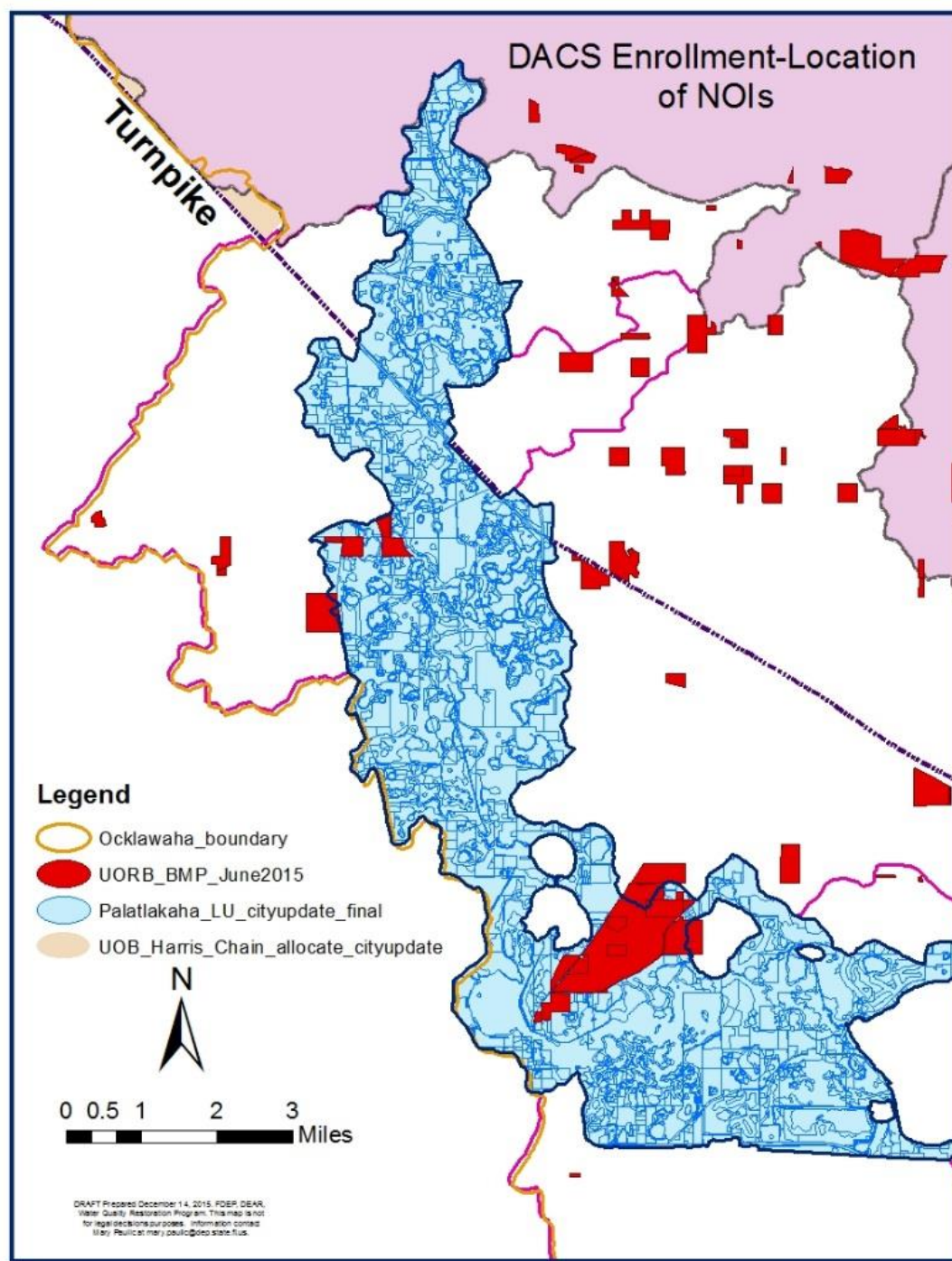
Legend

-  Ocklawaha_boundary
-  UORB_BMP_June2015
-  Palatka_LU_cityupdate_final
-  UOB_Harris_Chain_allocate_cityupdate



0 4 8 16 24 Miles

DRAFT Prepared December 14, 2015. FQER, DEAR, Water Quality Restoration Program. This map is not for regulatory purposes. Information contact: Mary Paulicet mary.paulicet@dep.state.fl.us





Loading Reduction Summary

Basin Summary TP lbs/yr for Stormwater Management Projects and Education Credit												
Jurisdiction	Palatlahaha River	Lake Apopka	Lake Harris	Lake Carlton	Lake Dora	Lake Beauclair	Trout Lake	Lake Eustis	Lake Yale	Lake Griffin	Lake Roberts	Total Reduction TP lbs/yr
Clermont	354.0											354.0
Groveland	23.1											23.1
Mascotte												0.0
Minneola												0.0
Lake County	14.6		212.7	0.2		3.8	144.2	40.2	7.1	129.0		551.8
Leesburg	5.3		111.1							233.1		349.5
Winter Garden												0.0
Ocoee		262.7										262.7
Apopka		557.0										557.0
Orange County		321.7		5.1		2.6					1,511.0	1,840.4
Tavares ³					672.4			674.6				1,347.0
Lake County Parks/SJRWMD ¹							726.0	1,487.0				2,213.0
LCWA						5,000.0						5,000.0
Eustis					3.5		2,620.2	439.7				3,063.3
Umatilla ⁴							31.6	18.8	24.3			74.7
Mt. Dora ²					1,518.6							1,518.6
FDOT	13.3	134.0	197.2	0.1	56.5		0.2	217.6	0.2	226.2		845.2
Marion County									0.8			0.8
Fruitland Park										7.5		7.5
Lady Lake										8.0		8.0
TOTAL	410.4	1,275.4	521.1	5.4	2,251.0	5,006.3	3,522.0	2,877.8	32.5	603.7	1,511.0	



Charge

- Identify additional management strategies for priority waterbodies within 12 to 18 months after adoption of BMAP.
 - Work has been started, but additional effort is needed.
 - We are at the 18 month mark!



Original Schedule

August to October 2015 Goals:

- Update the nutrient budget as well as complete the project updates and the identification of potential nutrient reduction strategies.
- Complete the annual project reporting.
- Continue to identify projects to include in the BMAP.
- Revise the BMAP document.
 - Present the draft BMAP to stakeholders.
- Hold annual BMAP meeting September 2015.



Original Schedule

- November 2015 to January 2016 Goals:
- Collect and address public comments on the BMAP.
- Finalize the BMAP and complete the adoption process.
- BMAP meetings in November and
 - December 2015.
- Final BMAP meeting January 2016.
- Public meeting to present BMAP January 2016.



Next Steps

- Questions?
- Follow-up assignments.
- Future meeting planning.
 - Next BMAP meeting date.

The background of the slide is a photograph of an empty lecture hall. Rows of blue plastic seats are visible, arranged in a tiered fashion. The seats are facing away from the camera towards a white wall at the front of the room. The text "Any comments or questions???" is overlaid in the center of the image in a large, bold, yellow font.

• Any comments or questions???