

BMAP Implementation

The first meeting!



February 13, 2008
Upper Ocklawaha
BWG Meeting

Today's Meeting Goals

- Distribute the FINAL BMAP!
 - [read me UORB BMAP Feb 08.doc](#)
- Decisions on:
 - Project status tracking table
 - Presentation format for water quality data and content of monitoring plan
 - Changes in pollutant load reduction
 - Next Steps for Lake and Stream Friendly Practices
 - Response to increased public interest



Microsoft Word
Document

Today's Process

- Assessing BMAP Implementation
 - Tracking Project Status
 - Measuring Progress Toward TMDL Implementation
 - Water Quality Monitoring Updates and Monitoring Plan
 - Lake Harris Basin Study
 - Whispering Pines and Venetian Gardens Projects
 - LCWA Grant Availability
- Calculating Project Pollutant Load Reductions
 - Trout Lake Basin Study
 - Calculating Pollutant Load Reductions
- Additional Discussions
 - Lake and Stream Friendly Practices
 - Public Involvement
 - Irrigation with Reclaimed Wastewater
- Summary and wrap-up

Tracking Project Status – Adopted BMAP Requirements

- **Periodic BWG meetings** (~twice a year): implementation issues, new information, other management actions to meet TMDLs.
- **Annual report** by each entity responsible for management actions to the BWG and DEP: *BMAP project, Affected area, Brief description, Project start/end, Project/activity status, TP removal estimate, Project monitoring results, and Comments.*
- **BWG annual report review** to assess progress and **develop follow-up steps** or modifications as necessary to achieve the targeted pollutant reductions.
- **Establish mechanisms for making course corrections** including *procedures to determine whether additional cooperative actions are needed, criteria/process for determining whether and when plan components need to be revised due to changes in costs, environmental impacts, social effects, watershed conditions, or other factors, and descriptions of the BWG's role after BMAP completion.*

Tracking Project Status



Microsoft Excel
Worksheet

UOB template latest.xlsm

Project Number / Project Name	General Location / Description	Estimated TP Load Reduction (lbs/yr)	Waterbody Identification (WBID) Number / Waterbody Name	Benefits	Lead Entity / Key Contact	Funding Source / Project Partners	Project Cost
ORANGE08 / Orange County Parks Total Phosphorus Fertilizer Reduction	Orange County Parks including Trimble, Roosevelt, Nichols, Magnolia Park, Chapin Station, Winter Garden Station, and County Line Station. / Orange County Environmental Protection Division and Parks Department agreed to reduce the use of phosphorus fertilizers for each new lawn care and maintenance contract issued on all park facilities. / The agreement includes use of 0 percent phosphorus, with 3 percent for regular turf. Higher percentages of phosphorus are allowable on plants needing greater amounts and in localized areas. Prohibition on the use of fertilizers, pesticides specifically herbicides within 10 feet of the shoreline. Application of weed controls directly rather than by broadcast methods. Limitation of nitrogen to less than 0.5 pounds per 1000 square feet.	Unknown / Lands within parks.	Orange_county / Orange County wide	Reduced TP loading from lawn fertilization. Provides public education tool for low maintenance lawn care.	Orange County EPD / Dan Homblette	Not available / Orange County Parks Department	Not available
MARION01 / Springshed Protection Program	Rainbow and Silver Springsheds / Prevent further degradation of water quality of Rainbow and Silver Springs, and to reduce or eliminate existing sources of pollution. / Marion County Board of County Commissioners is conducting hearings on amendments to the County's Comprehensive Plan that would establish primary and secondary springs protection zones; limit expansion of existing, or development of new, uses and activities in these zones; address wastewater disposal issues; encourage Florida-friendly landscaping; provide additional stormwater runoff treatment; and encourage use of low-impact development techniques.	Not applicable /	Marion_County / Rainbow and Silver Springs drainage basins; Ocklawaha River	Potential to reduce nutrient loadings to Lake Yale and Lake Griffin drainage basins.	Marion County Planning Department / Troy Kuphal	/ Marion County Clean Water Program; SWFWMD	not available
MARION02 / Clean Farms Initiative	Marion County wide / The Clean Farms Initiative is designed to assist Marion County farm owners and managers with implementation of BMPs, and to recognize them for their cooperative efforts. / The Clean Farms Initiative promotes best management practices (BMPs) for animal waste and nutrient management on agricultural lands. The Initiative was begun by passage of Resolution 04-R-384, by the Marion County Board of County Commissioners, which recognizes the importance of agriculture to the county's history and economy, while also recognizing the need to protect water resources. As part of the Initiative, more than 7,500 surveys and brochures were mailed in October 2006 to owners of agricultural land, ranging from large operations of several hundred acres to small tracts of land with fewer than a dozen animals. The survey measures current manure management and fertilization practices. Results of the survey, and input from focus groups held in February and March 2007 will be used to direct the Initiative's next steps aimed at protecting and preserving water resources.	Unknown / applies to all of Marion County	Marion_County / Marion County wide- Ocklawaha River; Lake Yale and Lake Griffin drainage basins	Future potential benefit of reducing TP and TN loading from manure and pasture land. Potential to reduce nutrient loadings to Lake Yale and Lake Griffin drainage basins.	Marion County Clean Water Program / Andy Nelson	Marion County Clean Water Assessment; General Revenue; SWFWMD grant / Marion County Planning Department ; Marion County Extension Service ; Marion County Soil and Water Commission; SWFWMD	\$15,000
MARION04 / Marion County Aquifer Vulnerability Assessment (MCAVA)	Marion County wide / Identification of vulnerable areas of aquifer. / Project provides a scientifically defensible water-resource management and protection tool that will facilitate planning of human activities to help in minimizing adverse impacts on ground water quality. Aquifer vulnerability maps are displayed in classes of relative vulnerability (one area is more vulnerable than another). The maps benefit local government, planners and developers in guiding growth into more appropriate areas (e.g. ground water recharge areas) and improve site selection for expanding existing or establishing new well fields.	Not applicable / applies to all of Marion County	Marion_County / Marion County wide- Ocklawaha River; Lake Yale and Lake Griffin drainage basins	Identifies areas where aquifer is vulnerable to pollution. Potential for future management of activities in those areas to reduce pollution of ground water.	Marion County Clean Water Program / Gail Mowry	Marion County Clean Water Assessment / DEP / SWFWMD / SJRWMD / UF	\$82,850

Updating the Project Tables

Column Name	Selection choices
<i>Status Update</i>	Complete
	On-going, on schedule, no changes
	On hold
	Cancelled
	Modified
	Other
	On-going, behind schedule, no changes
	Pending, planned but not started
<i>Project Type</i>	Current adopted project
	New project
	Replacement for cancelled project
	Modified adopted project
<i>Change to TP Loading</i>	No change
	Recalculated loading
	New project, new loading estimate

Project Status Tables - discussion

- How will this table be used to meet MS4 reporting requirements?
 - *TWG discussion and recommendations*
 - *Standardized approach to BMAP reporting is needed.*
 - *An approach that can also be used as a supplement in an attachment to the MS4 annual report is also valuable. Note: Phase II MS4s during the second round permits are only required to submit an annual report in years 2 and 4.*
 - *FL DEP Stormwater Section - Did not want the burden to be increased on the MS4 programs. Knowing the project status and if it is on schedule or not is important.*
 - *MS4 BMAP participants would like to keep the permit link even if it is not critical to the Stormwater Program.*

Project Status Tables - discussion

- What will the timeline be for project updates?
 - *TWG recommendations:*
 - *Two month timeframe prior to a BWG meeting for distribution of the forms for updating:*
 - *1 month for BWG input*
 - *2 weeks for DEP review and QC of data submitted, and*
 - *2 weeks for BWG review of consolidated information prior to the meeting.*
 - *Project tracking form sent to local governments for data entry will probably only include the projects for which that government is responsible.*

Project Status Tables - discussion

- How will additional data and information be reported and shared?
 - BMP monitoring data,
 - Other examples?



Project Status Tables – decisions

- Process for Project Changes:
 - Adding
 - Modifying
 - Canceling
- Process for:
 - Completing the table
 - Sharing/discussing the information reported
- Timeline for:
 - Completing/Updating the table
 - Sharing/discussing the information reported

Water Quality Monitoring – Adopted Plan

Primary Objective: Monitor TMDL waterbodies to:

- Determine whether the target TP concentrations used to develop the TMDLs are being achieved, and
- Determine whether expected improvements in other water quality indicators are being achieved.

Secondary Objective: Measure loadings of TMDL targeted pollutants as:

- Tributary loadings, and
- Loadings associated with specific sources or projects, as feasible.

Water Quality Monitoring – Local Program Updates

- Orange County

- [OckBMAPmonitoringsites feb 08.jpg](#)  HTML Document

- [Orange County_monitoring sites013108forpres feb 08.doc](#)  Microsoft Word Document

- SJRWMD

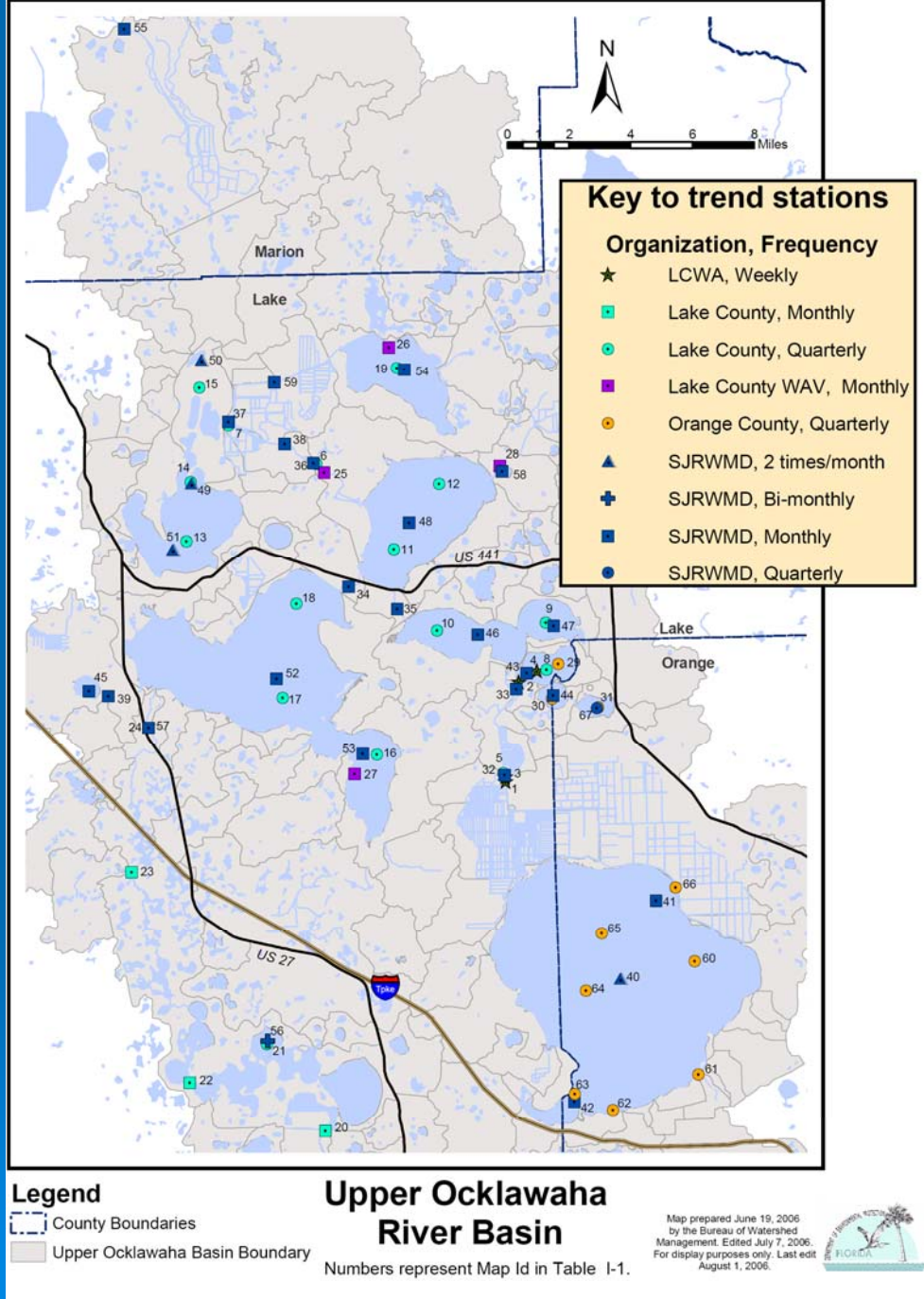
- [TMDL BWG pres 2-2008.ppt](#)  Microsoft PowerPoint Presentation

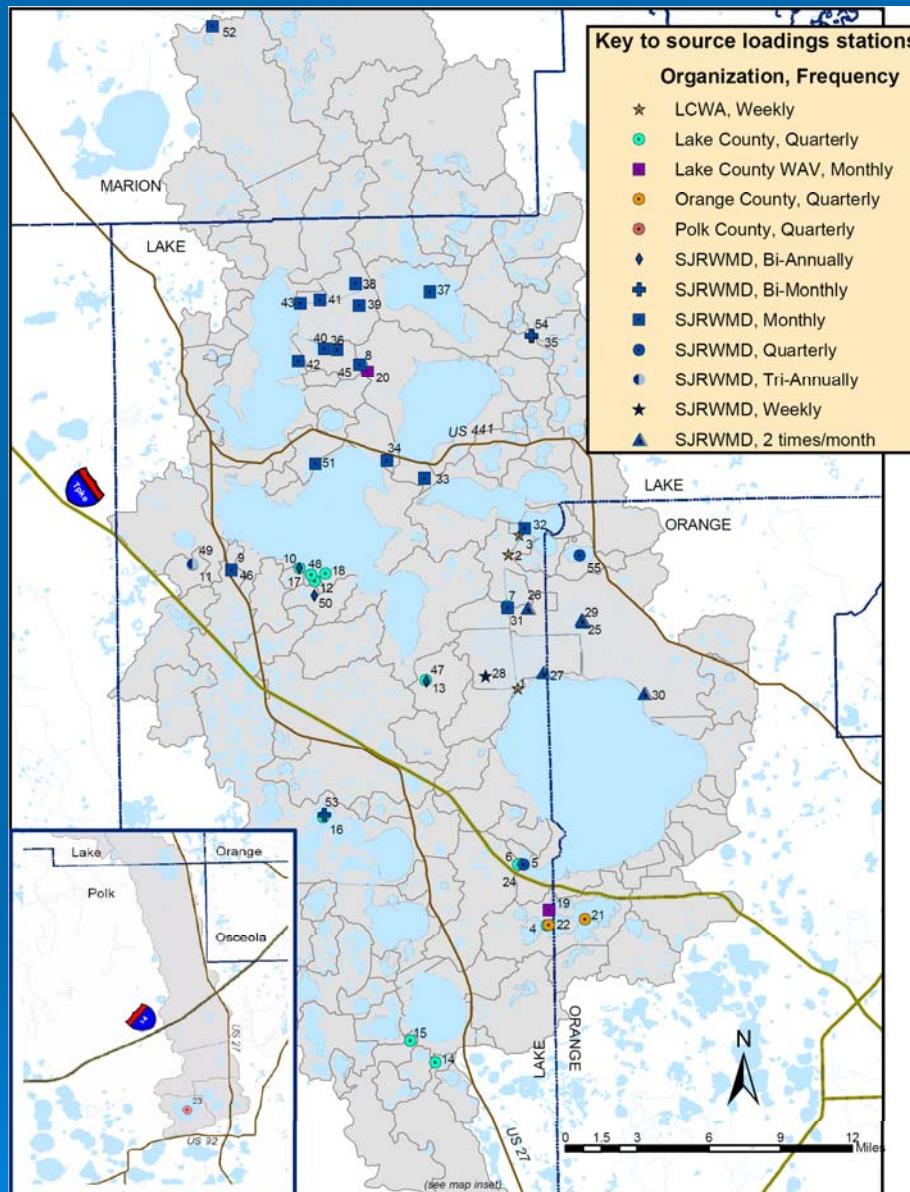
- Lake County

- FWCC

- [JB_FWC_TMDL_LTmonitor FEB08.ppt](#)  Microsoft PowerPoint Presentation

- LCWA [Lance Feb2008TMDLBWGPresentation.pptm](#)





Local Projects/Opportunities

- Lake Harris Basin Study
- Whispering Pines and Venetian Gardens
 - [Woodberry 20080213 BMAP Presentation.pptm](#)
- LCWA Grant Availability

LUNCH

Trout Lake Basin Study

A new challenge for reducing loadings

[Trout Lake-Hicks Ditch Basin Board Pres.pptm](#)



Calculating Pollutant Load Reductions

- *TWG discussions:*
 - *Consistency in the approach used to calculate reductions*
 - *Quantifying MS4 operations*
 - *Appropriateness of using literature values to calculate pollutant load reductions without monitoring to develop site specific information.*

Lake and Stream Friendly Practices

The BWG will consider additional Lake- and Stream-friendly Activities through the following steps:

1. *The collection of data/inventory of Lake- and Stream-friendly Activities across the Upper Ocklawaha River Basin...*
2. *The distribution of a summary of the inventory and the lessons learned by BWG members during the implementation of these activities...*
3. *The development of a plan for future Lake- and Stream-friendly management actions in the basin ...*
4. *The creation of proposals for improved, expanded, and/or new activities by individual jurisdictions and entities, or collectively by the BWG...*

Lake and Stream Friendly Practices

LID Survey

[LID Survey edited 11-24-07.doc](#)



Microsoft Word
Document

Response

Summary [lid summary.xlsm](#)

Public Involvement

Is there increased Public Involvement?

What type of interest is expressed?

Should the BWG do anything in response?

Decision – next steps to provide public access to the BMAP and BWG workgroup products and ongoing TMDL activities



Irrigation with Reclaimed Wastewater

[Irrigation with Reclaimed Wastewater Pres.pptm](#)



Summary and Wrap-up

