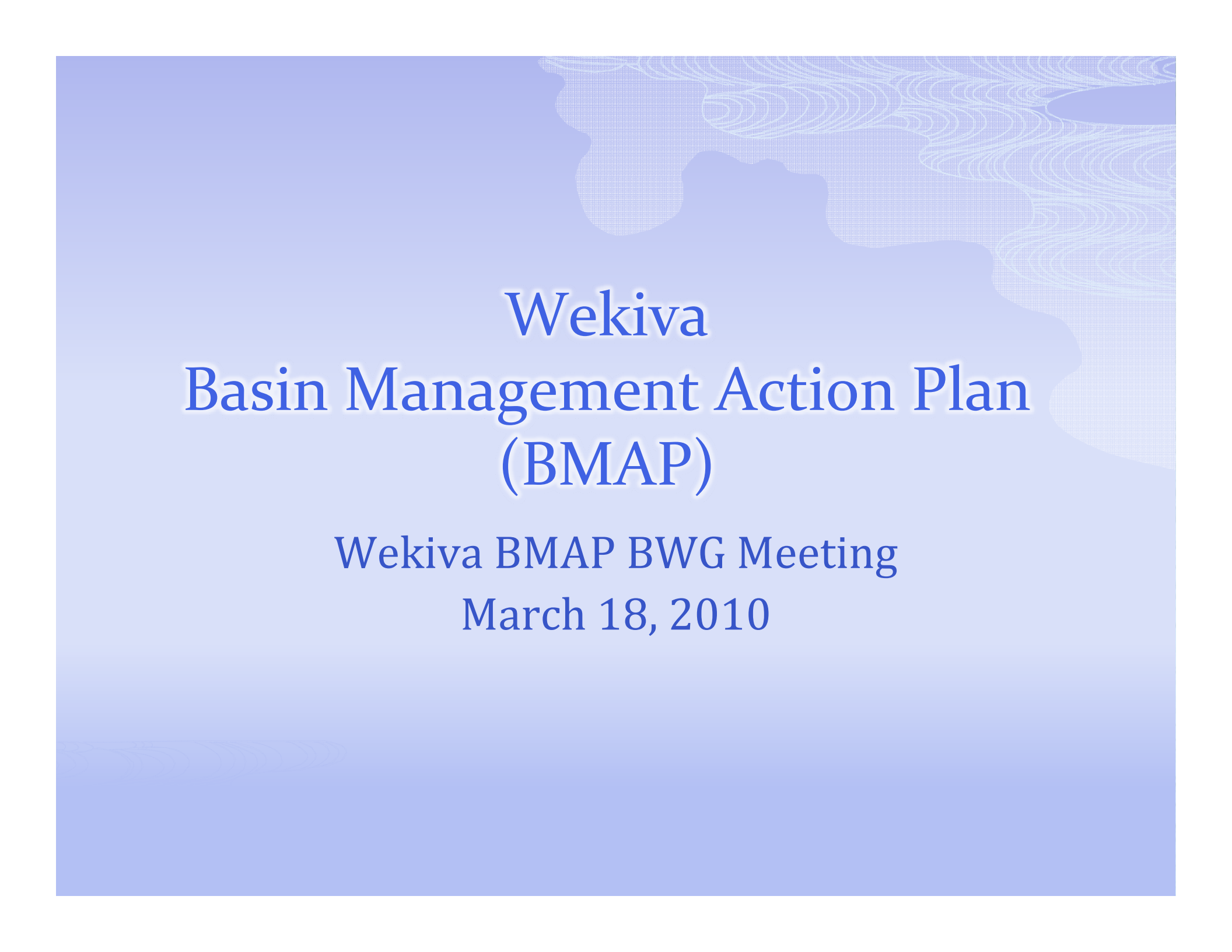




Wekiva Basin Management Action Plan (BMAP)

Wekiva BMAP BWG Meeting
March 18, 2010

Information/presentations from this
and previous meetings can be found at a
NEW web address:

<http://publicfiles.dep.state.fl.us/DEAR/BMAP/Wekiva/>

Wekiva Basin Nitrate & TP TMDLs

- ▣ Targets (“assimilative capacity”)
- ▣ Nitrate Target = 0.286 mg/L
- ▣ TP Target = 0.065 mg/L

Wekiva Basin % Reductions

Waterbody	Nitrate	TP
Wekiwa Spring	79%	64%
Upper Wekiva River	68%	61%
Lower Wekiva River	47%	57%
Rock Spring	81%	23%
Rock Spring Run	63%	58%
Blackwater Creek	52%	36%
Little Wekiva River	59%	78%

*Little Wekiva Canal requires a total nitrogen reduction of 45%

* TMDL also identifies load reductions for the Yankee Lake WRF, Wekiva Hunt Club WWTF, and Altamonte Springs WRF.

Nitrate/TP contributors have been identified

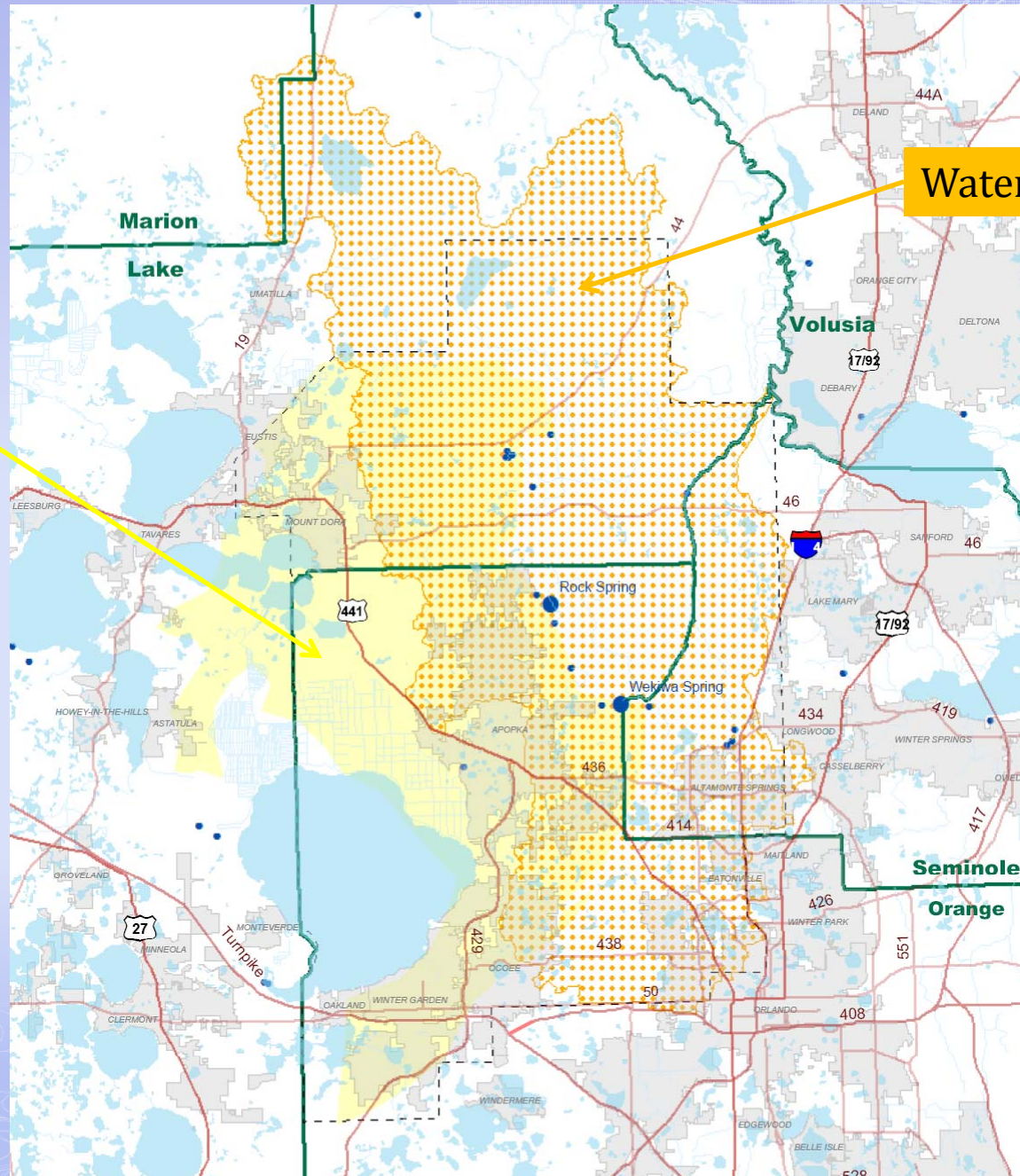
- ❑ Fertilizer (residential commercial/golf course, agricultural)
- ❑ Domestic Wastewater (treatment plants, sewer system leakage, septic systems, reclaimed water)
- ❑ Livestock, wildlife, and pets
- ❑ Atmospheric Deposition

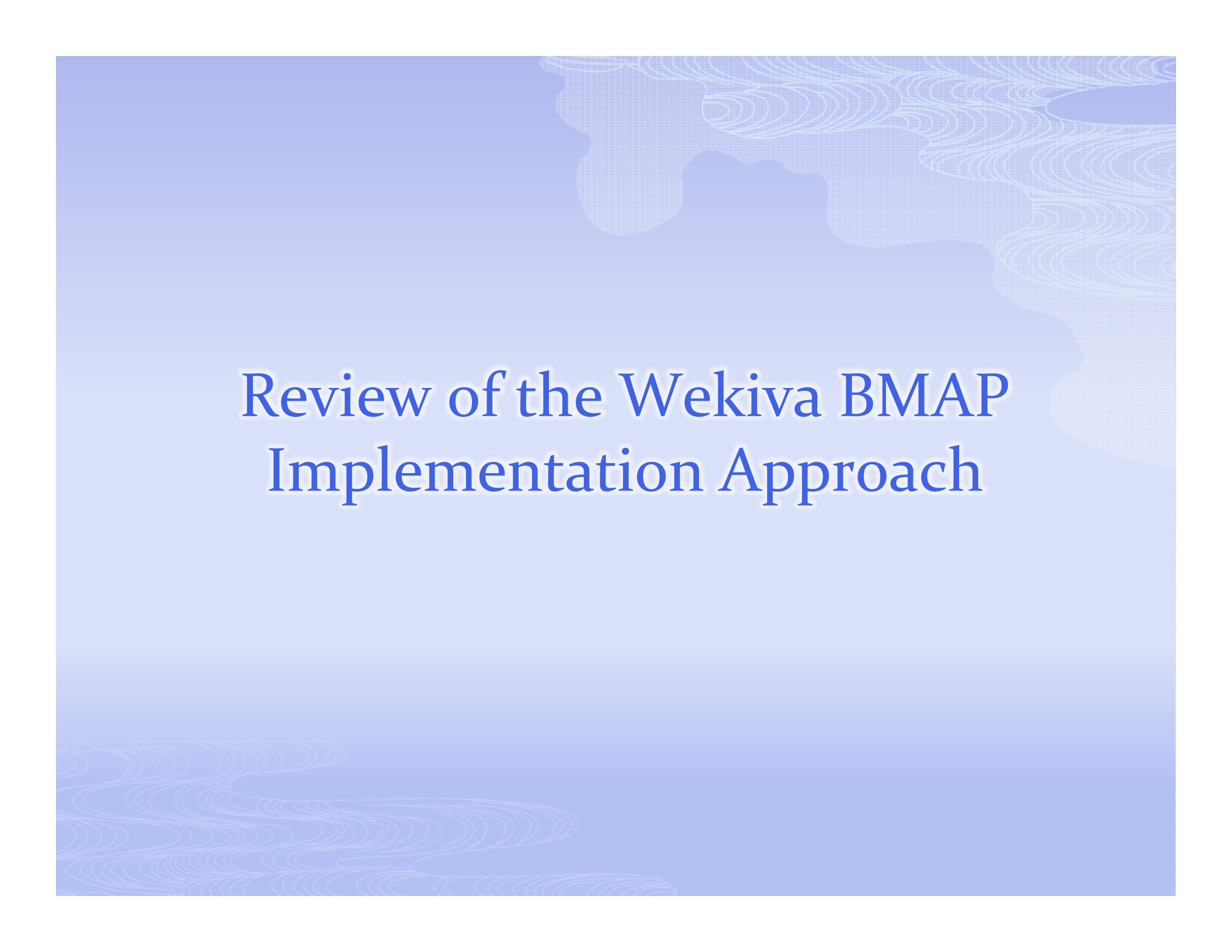
BMAP Planning Area

- ▣ Springshed
- ▣ Watershed

Springshed

Watershed



The background is a solid blue color. In the upper right corner, there is a white silhouette of a person's head and shoulders, facing left. The silhouette is filled with a fine, white grid pattern. In the upper right and lower left corners, there are white, concentric, wavy lines that resemble ripples in water or topographical contour lines.

Review of the Wekiva BMAP Implementation Approach

Quantitative detailed allocation is not appropriate due to 3 primary factors:

- 1) With impaired springs, consideration of activities in the springshed is necessary
- 2) Quantification of denitrification in soil and groundwater is not possible at the scale necessary for entity-specific allocations
- 3) A portion of the Wekiva/Rock springshed extends beneath surface watersheds that drain to other basins

The implementation approach is phased with two levels of implementation included in each phase.

- Phasing addresses changes in implementation over time
- Levels of implementation differentiates effort among stakeholders

Phase 1

- Intended to implement logical BMPs in order to see results in a reasonably short timeframe.
- Contains two levels of implementation

Level 1 BMPs

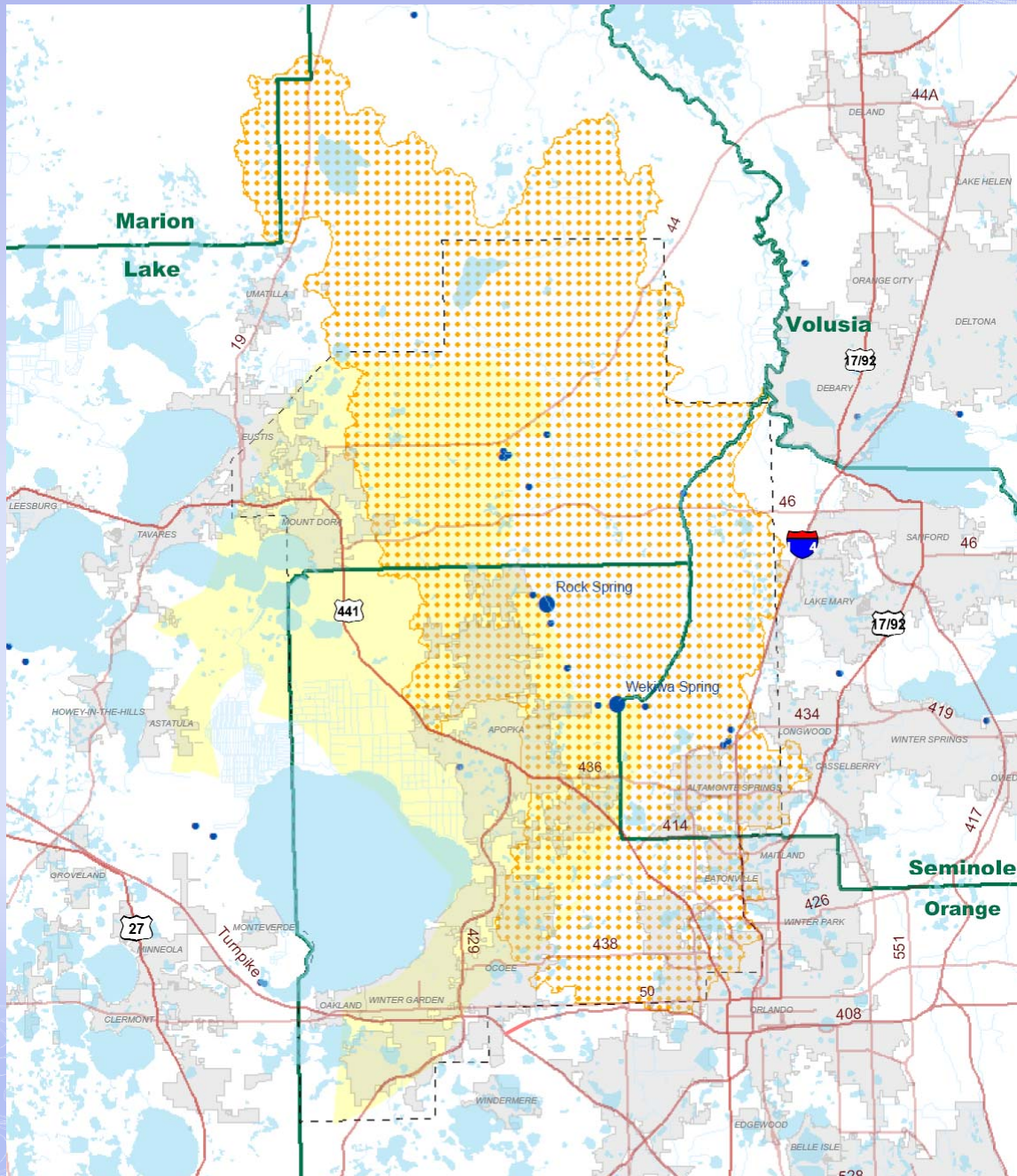
- Focused on pollution prevention (e.g. decreasing nutrient inputs)
- All BMAP stakeholders must implement Level 1 BMPs applicable to their jurisdiction and within their authority
- Stakeholders with jurisdictional area entirely within the springshed only have to implement Level 1 BMPs

Level 1 BMPs identified by the Department and BWG members shall:

- ❑ Focus on pollution prevention
- ❑ Address all identified sources
- ❑ Be cost effective
- ❑ Be implemented in a relatively short timeframe
- ❑ Achieve reductions or provide information for desirable future activities in a relatively short timeframe

Level 2 BMPs

- ❑ Include Level 1 BMPs
- ❑ More stringent requirements, including treatment of nutrient loads
- ❑ Achieve greater nutrient reductions but require more extensive resources and/or funding
- ❑ Stakeholders with all or part of their jurisdictional area within the watershed (including those who fall in the area of springshed/watershed overlap) must implement Level 2 BMPs.



Tentative Stakeholder IDs

Level 1 BMPs Only:

Astatula
Eustis
Expressway Authority
Mount Dora
Oakland
Tavares
Winter Garden

Level 2 BMPs (includes Level1):

Altamonte Springs
Apopka
Eatonville
FDACS
FDOT
Florida Turnpike
Lake County
Maitland
Marion County
Ocoee
Orange County
Orlando
Seminole County
Wekiva State Park & Aquatic
Preserves

Phase 2

- Mirror the same two level structure
- Contingent on resolution of key scientific unknowns and evidence that management actions undertaken in Phase 1 are inadequate to meet the nutrient targets specified in the TMDL

Sufficiency of Effort

- Determined on a BMP implementation basis

Quantification of Nutrient Reductions

- Necessary to communicate the extent to which nutrient inputs are being reduced
- Nitrate load reductions achieved by BMAP projects will be estimated to the greatest extent possible.



Questions?

Information about EPA's proposed numeric nutrient criteria:

- ▣ <http://www.epa.gov/waterscience/standards/rules/florida/>
- ▣ <http://www.dep.state.fl.us/water/wqssp/nutrients/federal.htm>