

**ORANGE CREEK BASIN TMDLS
BASIN WORKING GROUP
DRAFT Meeting Notes**

DATE: November 3, 2005

TIME: 9:30 AM

LOCATION: Gainesville, Florida - GRU

Meeting Attendees: (Names in bold are BWG members, names in italics are alternates)

Name	Affiliation
Mary Paulic	DEP, Tallahassee
Terry Pride	DEP, Tallahassee
Jennifer Gihring	DEP, Tallahassee
Jeff Martin	DEP/NED
Paul Lee	DEP, Tallahassee
Joe Hinkle	DEP/Aquatic Plants
Fay Baird	Pandion Systems
Jim Weimer	DEP, Paynes Prairie
	DCA
	DACS
Alan Obaigbena	DOT
Chris Bird	ACEPD
Diana Gijsselaers	ACEPD
Jim Myles	ACEPD
<i>Robin Hallbourg</i>	ACEPD
Kathy Fanning	ACEPD
George Carter	ACEPAC
Rob Brinkman	ACEPAC
<i>Sally Adkins</i>	City of G'ville/GCWP
Alice Rankeillor	City of G'ville
Maria Martin	MACTEC
Fritzi Olson	AAR
Stan Greco	ACEDD
Tom Staley	Micanopy citizen

Name	Affiliation
	ACHD
David Walker	SJRWMD
	SJRWMD
Erick Smith	UF
Gail Mowry	Marion County
Brett Goodman	GRU
Paul Davis	GRU
Rick Hutton	GRU
Jerry Krummrich	FWCC
Phil Gornicki	Forestry - FFA
	Forestry Industry
Jeff Vowell	DACS/DOF
R.M. Fry	TCWAC
	ACPW
	Building/Develop.
John Hurford	Dynan Group
	Sierra Club
Kimberly Dinkins	HMI
Kathy Cantwell	Sust. Alachua Co.
Walter Willard	GEAC
Carol Higman	Women/Wise Growth
TBI	Town of McIntosh
Kevin Grace	DBE (presenter)
Casey Schmidt	UFL (presenter)

HOUSEKEEPING

Announcements/Miscellaneous Items

- o Sally Adkins noted that there will be another Creek Summit in April, and that a TMDL/BMAP presentation might be appropriate.

UPDATES

- o **Basin Map:** Mary Paulic is working with Robin Hallbourg and Sally Adkins to revise the sub-basin boundaries and should have a revised map in December.
- o **Surficial Flow Map:** A copy of the surficial aquifer flow map was distributed at a previous meeting. The direction of surface water flow mirrors flow in the surficial aquifer.
- o **BMP Survey:** Mary has received surveys from DOT and Alachua County. Gainesville will submit theirs today. GRU is contributing to the Gainesville survey. DOH will also be submitting some information in the near future. The survey will also be sent to UF.
- o **GRU Mapping and Coliform Study:** GRU is continuing to work on their coliform study. An update should be ready by December.
- o **DEP Groundwater Study:** DEP Groundwater staff revised the scope per feedback received from the Lakes Working Group in October. Field work will begin in December or January.
- o **Onsite Wastewater Analysis:** Work on the septic tank analysis continues. Initial results should be ready for the December meeting.

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o Lake Kanapaha Study

- An EPA TMDL is pending for Lake Kanapaha.
- The recent Lake Kanapaha study sought to show that the lake and Hogtown Creek are not hydrologically connected except under extreme conditions.
- The final report should be ready by December. EPA has three samples.
- The county is going to drop sampling in the lake and wants to know if DEP is going to sample there.

PRESENTATION – KEVIN GRACE (DB ENVIRONMENTAL)

- o Project Title: “Streambank Sediment Phosphorus in Sweetwater Branch, Rosewood Branch and Tumblin Creek”
- o The purpose of this study was to identify the bioavailability of phosphorus in local soils.
- o Conclusions: large stores of phosphorus are in streambank sediments; significant quantitative of labile phosphorus exist in some outcrops; erosion of streambanks would be expected to contribute phosphorus to the stream, especially during storm events.
- o Robin Hallbourg has proposed follow-up work to identify erosion rates. This is needed to accurately calculate phosphorus loading from streambank erosion.

PRESENTATION – CASEY SCHMIDT (UF)

- o Project Title: “Phosphorus and sediment transport and retention: The role of riparian wetlands.”
- o The purpose of this study was to determine the rate of sediment accumulation and phosphorus sorption capacity of wetland soils in the Tumblin Creek floodplain.
- o Conclusions: removing or stabilizing large particles may improve the ability of riparian areas to retain phosphorus; retaining fine particles may increase the ability of riparian area to retain phosphorus; internal loading from floodplain sediments with historically high phosphorus concentrations may increase as dissolved phosphorus concentrations decrease in incoming water.

AQUATIC PLANT MANAGEMENT

- o The effects of aquatic plant management were discussed briefly at the October meeting. Many questions remained among BWG members.
- o It was noted that the relationship between aquatic plant management and nutrient loads depends on what is done with the resulting plant material. If plants remain in the waterbody, they may add to nutrient loads.
- o The primary goal of DEP’s aquatic plant management efforts is to control invasives. Without managing invasives, the plants are contributing organic matter all year. Weed control is thus beneficial to nutrient removal. FWC weed control activities are to support development of aquatic habitat in the lakes. Primary activities include spraying for exotic invasives and mechanical tussock control. Tussock control is funded directly by the Legislature (and therefore considered by a mandate). Removal of tussocks eliminates the navigation hazards, depressed DO, and impacts to native emergent vegetation that they can cause.
- o Aquatic plant management is a significant project in Orange Lake. This needs to be part of the conversation, but should be considered relative to the magnitude of other sources.
- o The SJRWMD observed rapid spikes in phosphorus with re-suspension of material after last year’s hurricanes. These concentrations dropped rapidly in most lakes. However, this was not observed in Orange Lake. The WMD is looking into this issue. The WMD is also investigating the correlation between aquatic plant management and water quality in Orange Lake.
- o Group members expressed a need to better understand the relationship between aquatic plant management and water quality. The following people were suggested as possible resources for a presentation about this relationship at the January meeting: Ken Langman, (AS Center for Aquatic Plant Management), Phil Hollar (IFAS), Dr. Gao (DEP), Dr. Canfield (UF), and Carol Lippencott (SJRWMD).

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MISCELLANEOUS DISCUSSION ITEMS

- o Source Tables
 - Dave Walker's tables were based on information in the TMDL documents. The forestry acreage breakdown will be needed to further split loading by the type of forest management regime (*and may not work in the context of the current TMDL*).
 - The term "Baseline" will be replaced by "TMDL Baseline" in the source tables.
- o The coliform discussion may need to occur on a stream-by-stream scale. The structure of the coliform discussion will be determined via conference call prior to the December BWG meeting.
- o Group members expressed a desire for calculations of load reductions from projects to be completed before a draft BMAP is presented to the elected officials.

STATUS OF PENDING ACTION ITEMS

BWG Members

- Continue work on completing BMP survey. Where information is readily available, responses should be submitted to DEP.
- Group members will review and revise subbasin hydrology descriptions by November 18th.
- Review and comment on revised project/activity tables.
- Affected parties will meet to discuss an approach for December's coliform discussion.

Mary Paulic

- Revise project/activity tables to:
 - o Add column to indicate which items should go into the BMAP.
 - o Include BMP survey information
 - o E-mail to BWG for review.
- Revise and e-mail the Basin Map to the BWG for review.
- Check if Lake Kanapaha is on the Ocklawaha Basin Strategic Monitoring Plan and inform Alice Rankeillor.
- Contact DOH regarding coliform data.
- Follow-up with Brett, Robin, and Alice regarding the current coliform study.
- Set up a conference call to plan the December meeting on coliforms. Make sure ACHD is included.
- Finalize refinements to the basin map boundaries and change the key to include Hogtown and Tumblin creeks and to identify the AS_Basin_Remodeling as Paynes Prairie.
- Develop map of the basin that shows impaired waters with TMDL due dates.
- Coordinate with DEP and SJRWMD staff re: event mean concentrations (EMCs) used in the TMDL for water vs. wetlands (two different approaches) - *PENDING*
- Coordinate with UF & DEP re: analyzing contribution of phosphatic soils - *PENDING*
- Revise basin map – *SOME REVISIONS COMPLETE; SOME PENDING*
- Locate Notice of Intent information to inform agricultural land analyses – *The county may have the best information on this.*

GRU

- Draft short paper about upset conditions at Main Street, water quality testing at Main Street, and water quality in Sweetwater Branch. – *GRU will write a summary*
- Provide DEP with locations of privately maintained pump stations connected to GRU system. – *PENDING*

Brett Goodman

- Develop presentation about GRU's coliform study for the December BWG meeting.
- Develop presentation about GRU's coliform study for the December BWG meeting.
- Map private lift stations
- May map smoke testing
- Map proximity of septic tanks to storm drains?? – suggested by Chris Bird

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Chris Bird

- Coordinate with Alachua Co property appraiser's office to identify properties receiving an ag tax exemption. – *The information was sent to ?*
- Provide DEP with locations of privately maintained pump stations. – *PENDING*

Dave Walker

- Revise source tables to include the following items:
 - Clarify that "Atmospheric Deposition" is the loading that falls directly onto a waterbody.
 - Clarify that "Rangeland" is not actively managed pasture.
 - Clarify that the "Controllable Baseline % Contribution" column refers to the fraction of the total controllable load, not the fraction of the baseline loading.
 - Wherever the term is used, change "Baseline" to a more appropriate term.

Terry Pride

- Arrange for drafting of a description of aquatic plant management activities in the basin (e.g. 1963 management document used by Alachua County, DEP, and FWC) for the BMAP.
- Get information for the BWG on the LSJR approach to coliforms. (*still in early stages of development*)
- Contact smaller local governments re BMAP process.
- Continue development of the BMAP, including comments received thus far from the BWG.

Fay Baird

- Contact potential presenters regarding the effects of aquatic plant management and set up presentations for the January meeting.

Jennifer Gihring

- E-mail surficial aquifer flow map to the BWG.
- Develop map and acreage of forestry activities (with information from Diana Gijsselaers).
- Compile initial results for the December BWG meeting.
- Develop a surface water flow map for the basin.
- Send group members information about the triennial review of water quality standards.

Alice Rankeillor

- Bring summary of Lake Kanapaha study to the December BWG meeting.

NEXT STEPS

- o The December meeting will include:
 - GRU mapping and coliform study updates
 - Detailed discussion about addressing coliforms in the BMAP
 - Discussion of Lake Kanapaha study
 - Detailed discussion about project information, including that gathered through the BMP survey (*may be deferred to January*)
 - Other issues
- o The January meeting will include:
 - Review of the revised BMAP
 - Discussion of aquatic plant management activities with regard to nutrient loadings
 - Other issues

NEXT MEETING: December 1, 2005, at GRU