



Florida Department of Environmental Protection
Division of Environmental Assessment and Restoration

***Wekiva River, Rock Springs Run, and
Little Wekiva Canal
Basin Management Action Plan (BMAP)
Onsite Sewage Treatment and Disposal
System (OSTDS) Remediation Plan***

***Moira R. Homann
December 14, 2016***





Agenda

- Welcome and Opening Remarks.
- Recap from Previous Meeting.
 - Florida Onsite Wastewater Association (FOWA) Public Service Announcements (PSAs) posted [here](#).
 - Updates to Committee Members.
 - Update on the Priority Focus Area (PFA) Development.
- OSTDS Remediation Plan.
 - Scientific Information.
 - Projects.
 - Constraints on sewerage and septic remediation.
 - Education.
 - Follow up from last meeting.
 - Public education project tables.
- Public Education Funding Information.
- Annual Report Process/Schedule.
- Public Comments.
- Summary and Action Items.



Sunshine Law Reminders

- OSTDS Advisory Committee will operate under the Sunshine Laws (Article 1, Section 24, Florida Constitution and Section 286.011, Florida Statutes [F.S.]).
- Discussion or any form of communication between committee members on matters reasonably expected to come before the committee is **prohibited** outside of a publicly noticed meeting.
 - Communication includes but not limited to phone calls, writing, texting, and emailing another committee member.
 - Discussion between a committee member and non-committee members, including staff, is permissible.
 - Discussion of committee topics between a committee member and their alternate representative is permissible.



Advisory Committee: Updates

- OSTDS Advisory Committee members:
 - Represent the sectors that are affected by the OSTDS Remediation Plan.
 - Have expertise to lend to the process and to successful outcomes to reduce nitrogen loadings from OSTDS sources.

Sector	Entity/Group	Representative	Email Address
DOH**	Orange County	Bart Harriss (Primary)	Bart.Harriss@flhealth.gov
	Lake County	Stephanie Daugherty (Alternate 1)	Stephanie.Daugherty@flhealth.gov
	Seminole County	Nancy Smith (Alternate 2)	Nancy.smith@flhealth.gov
County**	Lake County	Nicholas Mcray (Primary)	nmcray@lakecountyfl.gov
		Mary Hamilton (Alternate)	mhamilton@lakecountyfl.gov
	Orange County	Julie Bortles (Primary)	julie.bortles@ocfl.net
		Melissa Lavigne (Alternate)	Melissa.lavigne@ocfl.net
	Seminole County	Kim Ornberg	kornberg@seminolecountyfl.gov
City**	City of Apopka	Bob Elmquist (Primary)	relmquist@apopka.net
	City of Altamonte Springs	Danielle Marshall (Primary)	DMarshall@Altamonte.org
		Travis Hollman (Alternate)	THollman@Altamonte.org
Public Utilities**	Orange County Utilities Department	Megan Nelson (Primary)	Megan.Nelson@ocfl.net
	(Representing) Orange County Utilities Department	Elisabetta Natale (Alternate)	Natale@pbworld.com
Environmental Interest*	Friends of Wekiva, etc.	Michael D. Cliburn (Primary)	cliburn1947@gmail.com
		Jay Exum (Alternate)	jay.exum@exumassoc.com
Homeowners+	Property Owners	Charles Whitaker (Primary)	clwhitaker@centurylink.net
		Bob Samson (Alternate)	bob@lostpine.com
Other interests+	Florida Onsite Wastewater Association (FOWA)	Roxanne Groover	rgroover@FOWAonsite.com

*Required by Legislation

+ Per the BMAP



PFA Update

- Florida Department of Environmental Protection (DEP) is working with St. Johns River Water Management District (SJRWMD) to delineate the boundary.
- The PFA for Wekiwa and Rock Springs will be developed using geographic information system (GIS) tools, spring-specific data, and published information:
 - High vulnerability.
 - High potential for pollutant mobility.
 - Likely pollutant sources.
- Combined PFA for both Wekiwa and Rock Springs (due to their proximity to one another).



OSTDS Remediation Plan Components



Parts of Remediation Plan

- **Objective 1: Science – Data Collection**
 - Identify, collect, and evaluate existing and any additional data about nutrient impact of wastewater.
- **Objective 2: Projects - Analysis and Prioritization**
 - Wastewater management plan that includes identification and development of strategies (projects).
- **Objective 3: Public Education and Outreach Plan**
 - Provide residents with understandable information about the impacts of nitrogen loading and proper and effective wastewater management.



Scientific Information

- Legislative requirement: "*Collect and evaluate credible scientific information on the effect of nutrients, particularly forms of nitrogen, on springs and springs systems;*"
- Nitrogen Source Inventory Loading Tool (NSILT) that will be completed by DEP.
- Are there other OSTDS-related information sources we haven't covered?



OSTDS-Related Projects



OSTDS-Related Projects

- Objectives:
 - Identify time constraints on different project approaches.
 - Data needs to evaluate sewer versus septic field enhancement approaches.
 - Understanding of calculation approaches.
- Future determinations:
 - Constraints on projects to list for the 5-,10-, and 15-year milestones.
 - Areas with site limitations for sewer.
 - Areas with site limitations for OSTDS field enhancements.
 - Using the calculation approaches to estimate reductions.
- Future considerations:
 - Costs and cost differences based on site conditions.
 - Estimate treatment levels and disposal methods for wastewater treatment facilities (WWTFs).
 - Addressing growth of OSTDS and wastewater loads.



OSTDS Projects

- Understanding time constraints on installing new OSTDS treatment technology:
 - Improving OSTDS treatment is likely going to be the only or best option in some (or many) locations, so...
 - FDOH: When is the expected date that the new nitrogen reducing enhancements will be eligible for FDOH permits?
 - OSTDS Industry: Lead time to make these types of systems available for installation?





OSTDS Projects

- Understanding time constraints on installing new OSTDS treatment technology:
 - Local governments: Anticipating a BMAP requirement to reduce OSTDS loading, what would be an overall timeline for putting local policies in place for additional treatment requirements?
 - All: Are there other timing considerations for septic field enhancements?



Sewer Expansion Projects

- Understanding time constraints on installing additional sewer and treating nitrogen at a WWTF:
 - Phasing out OSTDS to sewer service and facility treatment may be the best option in some (or many) locations, so...
 - Utilities: What are your major time constraints for undertaking sewer expansion projects?
 - Local governments: Anticipating a BMAP requirement to reduce OSTDS loading, what would be an overall timeline for putting local policies in place for sewer hook up?
 - All: Are there other timing considerations for sewer expansion?





Development of an OSTDS Remediation Plan - Public Education



DRAFT

Stakeholder OSTDS Education Projects

Recommended Target Audiences/Stakeholders	Altamonte Springs	Apopka	Eustis	Maitland	Mount Dora	Oakland	Ocoee	Orlando	Tavares	Winter Garden	FDACS	FDOT	Florida Expressway	Turnpike Authority	Friends of Wekiva	Lake County	Lake Co. Health Dept.	Orange County	Orange County Health Dept.	Sanlando	Seminole County	Seminole County Health Dept.	SIRWMD	Astatula	Wekiva River Aquatic Preserve	Wekiva Springs State Park	FDEP	FOWA
Elected Official															X			X										X
Homeowners	X							X				X			X	X		X										X
State Park																												
Commercial Business								X																				
Homeowner Associations								X										X										
OSTDS Industry												X				X												
Builders	X											X				X												
Golf Courses																												
Temporary Populations – Tourists																												
Real Estate	X														X													X
Recommended Message/ Stakeholders																												
Process																												
Cost to Homeowners												X			X	X		X										
Environmental Benefit	X											X			X			X										X
General Costs																												
Timeframe of Disruption																												
Comparables																X												
Passive versus Active Systems												X																
Evidence/Studies	X														X	X												X
Simple Message																												X
Actual Sewer Costs																												
Actual Enhancement Costs	X																	X										
Simple message + environmental benefit + actual maintenance cost*								X																				
Process + Comparables + Environmental Benefit*								X																				
Process + Cost to Homeowners + Actual Sewer Costs*								X																				
Recommended Materials & Resources/ Stakeholders																												
Florida Onsite Wastewater Association Public Service Announcements for Maintenance	X															X												X
Homeowner Association Newsletters	X							X				X			X	X		X										
Utility Inserts / mailers								X				X				X		X										
Fairs and Events								X				X																X
Pamphlets for Homebuyers from Real Estate Binders	X														X			X										
FYN															X													X



Stakeholders Education Priorities on OSTDS (cont'd)

Recommended Target Audiences/Stakeholders	Altamonte Springs	Apopka	Eustis	Maitland	Mount Dora	Oakland	Ocoee	Orlando	Tavares	Winter Garden	FDACS	FDOT	Florida Expressway	Turnpike Authority	Friends of Wekiva	Lake County	Lake Co. Health Dept.	Orange County	Orange County Health Dept.	Sanlando	Seminole County	Seminole County Health Dept.	SJRWMD	Astatula	Wekiva River Aquatic Preserve	Wekiwa Springs State Park	FDEP	FOWA
Elected Official															X			X										X
Homeowners	X							X				X			X	X		X										X
State Park																												
Commercial Business								X																				
Homeowner Associations								X										X										
OSTDS Industry												X				X												
Builders	X											X				X												
Golf Courses																												
Temporary Populations – Tourists																												
Real Estate	X														X													X



Stakeholders Education Priorities on OSTDS (cont'd)

Recommended Message/ Stakeholders	Altamonte Springs	Apopka	Eustis	Maitland	Mount Dora	Oakland	Ocoee	Orlando	Tavares	Winter Garden	FDACS	FDOT	Florida Expressway	Turnpike Authority	Friends of Wekiva	Lake County	Lake Co. Health Dept.	Orange County	Orange County Health Dept.	Sanlando	Seminole County	Seminole County Health Dept.	SJRWMD	Astatula	Wekiva River Aquatic Preserve	Wekiwa Springs State Park	FDEP	FOWA
Process																												
Cost to Homeowners												X			X	X		X										
Environmental Benefit	X											X			X			X										X
General Costs																												
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Simple message + environmental benefit + actual maintenance cost*								X																				
Process + Comparables + Environmental Benefit*								X																				
Process + Cost to Homeowners + Actual Sewer Costs*								X																				

* City of Orlando combined messages during prioritization



Stakeholders Education Priorities on OSTDS (cont'd)

Recommended Materials & Resources/ Stakeholders	Altamonte Springs	Apopka	Eustis	Maitland	Mount Dora	Oakland	Ocoee	Orlando	Tavares	Winter Garden	FDACS	FDOT	Florida Expressway	Turnpike Authority	Friends of Wekiva	Lake County	Lake Co. Health Dept.	Orange County	Orange County Health Dept.	Sanlando	Seminole County	Seminole County Health Dept.	SJRWMD	Astatula	Wekiva River Aquatic Preserve	Wekiwa Springs State Park	FDEP	FOWA
Florida Onsite Wastewater Association Public Service Announcements for Maintenance	X															X												X
Homeowner Association Newsletters	X							X				X			X	X		X										
Utility Inserts / mailers								X				X				X		X										
Fairs and Events								X				X																X
Pamphlets for Homebuyers from Real Estate Binders	X														X			X										
FYN															X													X



DRAFT Stakeholder OSTDS Education Projects

Lead Entity	Priority Ranking	Project Name	Description	Project Type	Milestone (5-, 10-, or 15-yr)	Cost Estimate (planning level)	Funding		Status (Underway, Planned, or Completed)	Estimated Completion Date
							Source	Amount		
City of Orlando (Streets and Stormwater Div)		Campaign Title > To Be Determined	Provide information to audiences through: Annual mailer + Annual HOA Newsletters + Social Media + Fair and Events		1-2 years	Unknown but funding is available				
City of Orlando (Wastewater Div)		Campaign Title > To Be Determined	Provide information to audiences through: Social Media + Fair and Events		1-2 years	Unknown but funding is available				
City of Orlando (Streets and Stormwater Div)		Campaign Title > To Be Determined	Provide information to audiences through: Annual mailer + Annual HOA Newsletters + Social Media + Fair and Events		3-5 years	Unknown but funding is available				
City of Orlando (Wastewater Div)		Campaign Title > To Be Determined	Provide information to audiences through: Social Media + Fair and Events		3-5 years	Unknown but funding is available				
City of Orlando (Streets and Stormwater Div)		Campaign Title > To Be Determined	Billboard ad		3-5 years	Unknown but funding is available				
City of Orlando (Streets and Stormwater Div)		Campaign Title > To Be Determined	Provide information to audiences through: Annual mailer + Annual HOA Newsletters + Social Media + Fair and Events		6-10 years	Unknown but funding is available				
City of Orlando (Wastewater Div)		Campaign Title > To Be Determined	Provide information to audiences through: Social Media + Fair and Events		6-10 years	Unknown but funding is available				



Pilot Project – Outreach and Social Marketing Campaign (OSTDS or Fertilizer)

Phase	Funding and Contracting	Pre-Campaign	Campaign	Post-Campaign
Purpose	- Obtain funding for campaign - Select consultant(s) to complete social marketing research and develop and implement campaign	- Know the audience - Identify barriers and benefits - Define campaign objectives	- Change behavior - Use a strategic communications approach - Carefully consider communication channels	Evaluate performance
Objectives	Secure funding and experienced consultant(s)	- Determine the following for the audience: - Awareness of issue - Attitudes and values - Current practices	- Awareness by audience that: - Their actions affect the issue - Actions can be taken by them to remedy issue - Behavior change	Observe behavior change
Actions	- Prepare and submit grant application - Prepare request for qualifications (RFQ) - Complete RFQ process and place consultant(s) under contract	- Conduct collaborative work sessions with lead entity - Develop survey, implement, and analyze results - Conduct focus groups	- Develop message(s) - Develop branding/graphics - Prepare products (direct mail, billboards, radio ads, tv ads, etc.) - Implementation (billboards; radio, tv and print advertisements; promo items, etc.)	Develop survey, implement, and analyze results
Costs (Estimated)*	Staff time and cost	\$30,000	\$240,000	\$30,000
Schedule	Year 1	Year 2	Years 3-4	Year 5

**Costs are estimated from budget information for the Southwest Florida Water Management District annual "Restoring our Springs!" campaign as well as University of Florida-Institute of Food and Agricultural Sciences' anticipated costs for implementation of its Outstanding Florida Springs OSTDS campaign in 2017/2018.*



Funding Available for Education Programs



319(h) Nonpoint Source Education Grant

- \$1 million available.
- Eligible Applicants: Local governments.
- Grant Schedule:
 - **December 2016**: Solicitation is advertised.
 - **March 2017**: Project proposals are **due** to DEP for review and ranking. Project proposals received after March 31st may be excluded from the selection process.
 - **Spring 2017 – Summer 2017**: U.S. Environmental Protection Agency (EPA) approval expected to occur and projects to be evaluated and selected by DEP. Status letters will be mailed to all applicants.
 - **Summer 2017 – Fall 2017**: Contracts will be executed for selected projects. No costs may be reimbursed for work occurring outside the **contract period**.
 - **September 30, 2020**: Contract requirements should be completed. All projects should be completed and invoiced by this date.



319(h) Nonpoint Source Education Grant

- Subjects on nonpoint source pollution education and outreach include, but are not limited to:
 - Preventing nonpoint source pollution.
 - OSTDS maintenance and pollution prevention.
 - Low impact development projects.
 - Activities identified in the BMAPs and targeting BMAP issues.
 - Citizen and volunteer monitoring programs.



319(h) Nonpoint Source Education Grant

Eligible Projects/Activities for Grant Funding:

- Nonpoint Source Education/Outreach Projects that implement adopted BMAPs.
- Projects should include a minimum 40 % non-federal match; 319(h) funding may not exceed 60 % of the total eligible project cost.

Methods of outreach may include but are not limited to:

- Public service announcements.
- Development, publication and distribution of best management practice (BMP) manuals.
- Training through workshops, field days, and classes.
- Creating and providing information through publications such as flyers and notices.
- Posting information on local websites.
- Coordinating with area schools to provide classroom education and nonpoint curriculum opportunities.



2018 319(h) Nonpoint Source Grant

- Anticipate \$5 to \$6 million available statewide.
- **Eligible Applicants:** The following Florida entities: state agencies, local governments, state universities, state colleges, and state water management districts.
- **Section 319-2018 Grant Schedule:**
 - **December 2016:** Solicitation is advertised.
 - **March 2017:** Project proposals are **due** to DEP for review and ranking. Project proposals received after March 15th may be excluded from the selection process.
 - **Spring 2017 – Summer 2017:** Projects will be evaluated and sent to EPA for approval. Status letters will be mailed to all applicants.
 - **Spring 2018 – Summer 2018:** EPA will provide comment and/or approval of the draft Work Plan and grant recipients will be notified of the award.
 - **Summer 2018 – Fall 2018:** Contracts will be executed for projects approved by EPA. No costs may be reimbursed for work occurring outside the **contract period**.
 - **September 30, 2021:** Contract requirements should be completed. All projects should be completed and invoiced by this date.



2018 319(h) Nonpoint Source Grant (cont'd)

- Eligible Projects/Activities for Grant Funding:
 - Projects that treat nonpoint source pollution at its source.
 - Projects should include a minimum 40 % non-federal match; 319(h) funding may not exceed 60 % of the total eligible project cost.



Annual Progress Report



Annual Progress Report

- Describes the activities that occurred during the reporting period: November 1, 2015 through October 31, 2016.
- Report will include the following:
 - Project Updates.
 - Status.
 - Nutrient reductions associated with project implementation efforts (structural/non-structural).
 - Agriculture enrollment.
 - Water quality update.



Annual Progress Report (cont'd)

- **Tentative** Schedule:
 - Request out for project updates: 12/28/2016.
 - Project updates submitted to DEP:
01/27/2017.
 - Draft Progress Report to stakeholders:
02/15/2017.
 - OSTDS Advisory Committee/Annual Meeting:
02/22/2017.

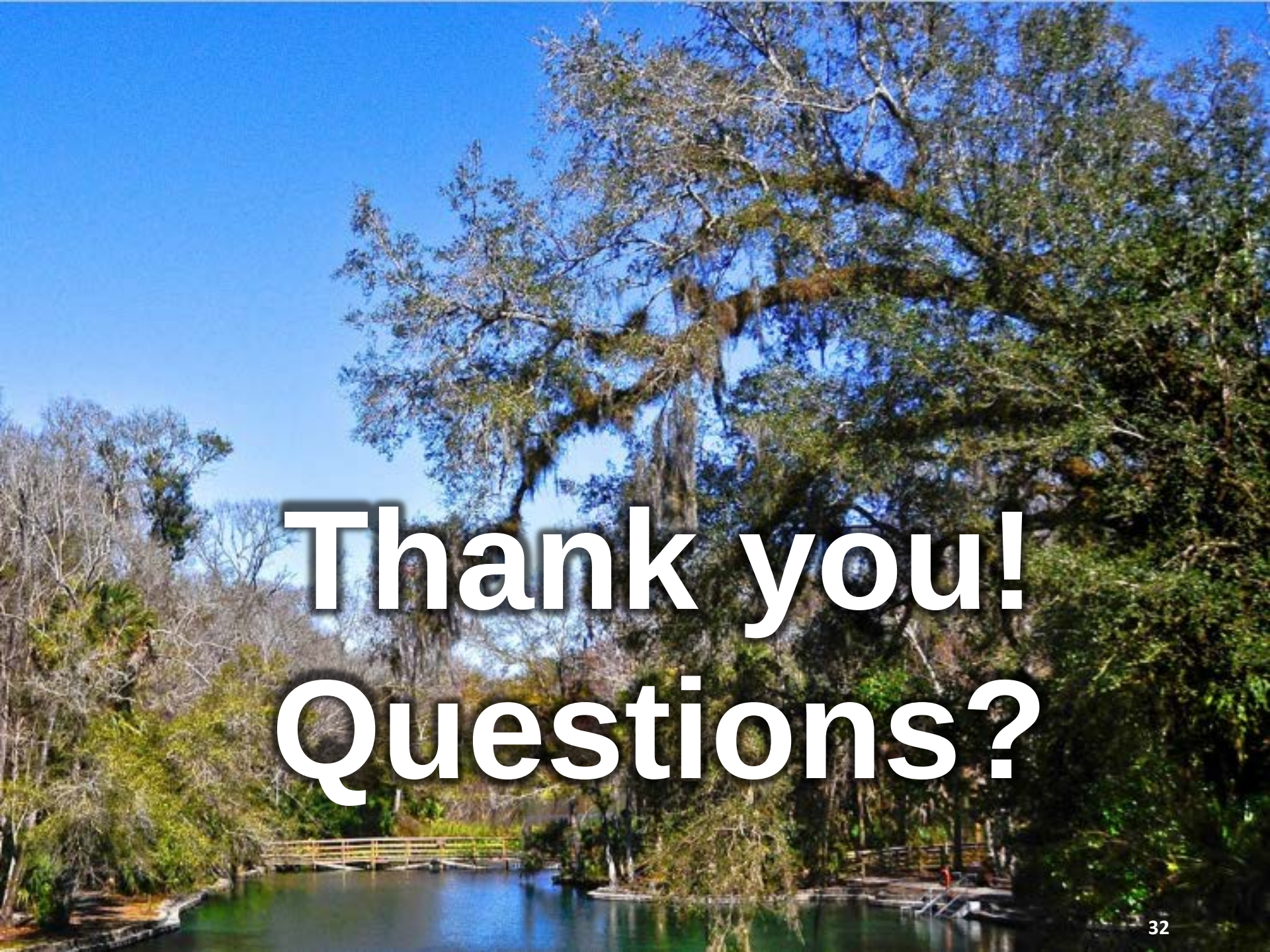


Wrap Up

- Next meeting date – February 22nd?
- Other comments/announcements.
- Action items.
- Prepare for next meeting.



Happy Holidays!

A scenic photograph of a pond surrounded by lush green trees. A wooden bridge is visible in the background. The text "Thank you! Questions?" is overlaid in large white letters with a black outline.

Thank you!
Questions?



Contacts

- Tom Frick, Director, Division of Environmental Assessment and Restoration, Thomas.Frick@dep.state.fl.us
- Kevin Coyne, Administrator, Watershed Planning and Coordination Section, Kevin.Coyne@dep.state.fl.us
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- Moira Homann, Wekiva River, Rock Springs Run, and Little Wekiva Canal BMAP Coordinator, Moira.Homann@dep.state.fl.us
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- Heather York, Consultant, HYork@wildwoodconsulting.net