

February 28, 2018

**SPRINGWOOD WATERWAY
ANNUAL MEETING & LAKE MANAGEMENT PLAN**

Annual Meeting – 2018

- Agenda

Lake Management Plan

- General Provisions & Scope of Services
- Community-Based Activities & Events
- Current Fiscal Year
 - Planned Treatments & Funding
- Next Fiscal Year
 - Projected Treatments & Funding
- Exhibits
 - Agenda & Notes (Prior Year)
 - Budget & Financial Summary
 - Roles & Responsibilities

SPRINGWOOD WATERWAY: ANNUAL MEETING

Date, Time & Location	: February 28, 2018, 1:00 p.m., 200 W. County Home Rd – LMP office
Community Liaisons	: Sarafaith Pekor and Brian Pelski
Liaisons Present	: Brian Pelski and Mel Shubert
Seminole County	: Edward Bass, Joey Cordell, Thomas Calhoun, Gloria Eby, Kim Ornberg, Kathy Moore and Joe Saucer

General Topics & Updates [Meeting Notes]

Lake Management Program

- Welcome
- Fertilizer Ordinance- Passed on February 27, 2017. www.seminolecountyfl.gov/fertilizer.
 - Fertilizer containing nitrogen or phosphorous cannot be applied to turf during the restricted season from June 1st – September 30th. Fertilizers containing Iron, Manganese and other "micronutrients" also referred to as "summer blends" can be applied during the restricted.
 - Fertilizer containing nitrogen that is used during the **non**-restricted season (October 1st – May 31st) must contain *at least* 50% or more slow release nitrogen. This slow release nitrogen content will increase to 65%, three (3) years after adoption of the Fertilizer Ordinance, to allow time for educational outreach to residents and retailers.
 - Fertilizer containing phosphorus cannot be applied to turf or plants unless a state certified soil or tissue test verifies that there is a phosphorus deficiency.
 - Use of deflector shields is required when applying fertilizer with a broadcast or rotary spreader.
 - No fertilizer may be applied within fifteen (15) feet of any pond, lake, stream, canal, or other waterbody, including wetlands.
- Shoreline Protection Ordinance Status
 - Awaiting FWC Rule changes
- Lake Status Nutrients/Habitat Scores [Refer to Exhibit C: Bioassessment Indices]
- Treatment Plans - Current & Proposed [Refer to Lake Management Plan]
 - Monitor hydrilla and other submersed and treat as necessary (early detection-rapid response)
 - Evaluate grass carp fish effects and adjust stocking rate as necessary
- General recommendations for lake-community consideration [Refer to Lake Management Plan]
 - Increase native aquatic plantings in areas devoid of vegetation
 - Promote "welcome packages" to new lakefront homeowners
- 2018 Shoreline Planting Event- dates available
 - To be coordinated via Thomas Calhoun
- Other
 - TGC Fish Barrier
 - Email Address for routine communications and important announcements
 - Organic Vegetation Removal
 - Nutrient Abatement
 - Website link for content information

MSBU Program

- Condo Association Financial Support (City of Altamonte Springs) – declined financial support
- Budgets – Prior, Current, Proposed and Projected [Refer to Exhibit B]
 - Assessment Update
 - i) Opportunity to reduce assessment; LM Program & Liaisons requested no rate reduction
 - Anticipating Administrative Fee increase FY19-20; tax year 2019
- Tentative date for next annual meeting: February 1, 2019 10:00AM

SPRINGWOOD WATERWAY LAKE MANAGEMENT PLAN

GENERAL PROVISIONS

Scope of Public Aquatic Weed/Plant Control [AWC] Services

The scope of public aquatic weed control [AWC] services funded by non-ad-valorem assessment includes those services associated with managing aquatic plant communities as deemed beneficial and/or critical to restoring, developing and/or maintaining conditions that enhance the water quality and over-all health of the waterbody; with emphasis on providing public services for public purposes which by definition of public are limited to the waterbody and respective shoreline when/where noxious and/or invasive exotic vegetation could/would threaten or impede the waterbody.

Governing documents

- Seminole County Ordinance 09-23
- FWC Permit

Methods for Aquatic Weed Control as authorized via County Ordinance/Resolution

- Chemical (herbicides)
- Biological (sterile triploid grass carp fish [TGC])
- Mechanical (harvesting, cutting, etc.)

Targeted Invasive/Exotic Aquatic Vegetation

- Hydrilla, southern naiad, nitella, bladderwort, alligatorweed, torpedo grass, primrose willow, water lily, wild taro, cattail, barnyard grass, lemon bacopa, and salvinia.

Frequency of AWC Treatment

AWC services are performed at the direction of the Seminole County LMP as per the Springwood Waterway Management Plan reviewed at the annual planning session with the expectation that the Seminole County LMP may alter anticipated treatments as merited per changing/evolving conditions noted during site inspections.

Herbicide Treatments - Service Provider

- As determined by Seminole County

Funding

Assessment rate may vary annually based on financial demands of changing conditions, such as cost of herbicide treatments, frequency of treatments, and other factors impacting assessment calculations. Per the governing ordinance, the annual assessment is capped at \$450.00.

Lake Liaisons

Designated property owners (or other designated representatives) provide community representation at annual planning sessions with the County and serve voluntarily as the key point of contact for community inquiries and concerns. The liaisons for Springwood Waterway are: Sarafaith Pekor (feelyourjoy@gmail.com) and Brian Pelski (bpelski89@gmail.com).

COMMUNITY-BASED ACTIVITIES & EVENTS

LMP recommends/encourages homeowners to coordinate a resident-based volunteer event involving native plantings along the shoreline of Springwood Waterway. The intention of such an event is to plant beneficial native aquatic plants to key areas in need along the bank. It is especially important that as the aquatic invasive plants (such as torpedo grass) are being treated, native aquatic plants should be established within these areas. The presence of the recommended native plant species along the shoreline provides habitat for fish and wildlife, helps impede invasive exotics from re-establishing, and reduces erosion of the shoreline. All of these best management practices are essential to providing the conditions that promote an environmentally stable habitat to be enjoyed by generations to come. The key to success is dependent on strong participation of the Springwood Waterway community. Continued recommendations for community initiatives are as follows:

- 1) Work together with other lakefront owners. Have *at least* one annual lake association meeting, invite guest speakers (such as county or state biologists) and discuss lake specific issues, especially nutrients/lake management recommendations. Continue to increase native aquatic plantings along shoreline (such as pickerelweed, duck potato, and canna).
- 2) Increase educational outreach programs i.e. Shoreline Restoration Workshops (planting days), Florida Yards and Neighborhoods (FYN), Lake Management Video mail-outs, and reduction of personal pollution by decreasing fertilizer usage; using only phosphorous free and slow-releasing nitrogen based fertilizers; keeping a functional shoreline with beneficial native aquatic plants; keeping grass clippings out of your lake and storm drains leading to the lake. All these activities aid in protecting your waterbody! Contact Seminole County Lake Management Program (407) 665-2439 for free educational programs available.
- 3) Consider increasing street sweeping services during times of peak leaf fall to ensure that this debris does not enter your waterways. Leaf debris contains phosphorous that can negatively impact your waterbody.
- 4) Sarafaith Pekor is the Springwood Waterway LAKEWATCH volunteer to take monthly samples that are invaluable data for your lake.
- 5) Share what YOU know with your neighbors! Encourage fellow residents to keep a functional shoreline with beneficial native aquatic plants, and to keep grass clippings out of the storm drains that lead to the lake. All of these activities aid in protecting your waterbody! Please share newsletter with any new residents or those not currently on our email list.

Important to Note: When herbicides are applied along the shoreline to invasive plants (such as torpedo grass), overspray onto adjacent desirable vegetation may occur. In order to avoid damage to desired vegetation, manual (by hand) removal (by property owner) of the undesirable species from among the desirable species along the shoreline is advised. If the invasive plants are removed by this method, spraying the area can be reduced, thereby offering greater protection to the desirable species. The physical removal of dead/decaying aquatic plant material will reduce the volume of decomposing vegetation on the lake bottom (muck layer) and will increase the success of the efforts to limit the re-growth of the invasive plants. The presence of submerged aquatic vegetation ("SAV" such as hydrilla) should be communicated to your lake liaison for their reporting to the County so appropriate treatment of SAV can be provided.

COUNTY SERVICES – Lake Management & Supplemental Programs

Springwood Waterway is monitored by LMP to assess the aquatic plant growth. LMP provides continued evaluation of the aquatic plant species, such as hydrilla, and provides community updates on the status of treatments and waterbody bioassessments. In addition, LMP offers free aquatic plant material (as available) for sponsored restoration events and local community volunteers coordinated through the county's Seminole Education and Restoration Volunteer (SERV) Program. While the MSBU assessment includes a nominal charge for administering the MSBU, the amount charged does not cover all the expenses incurred by the County on behalf of the waterfront property owners. Many of the services provided by the LMP are made available to support community riparian stewardship without additional charges being assigned to the MSBU budget.

CURRENT FISCAL YEAR – Planned Treatment & Funding

Primary Aquatic Plant Management Expectations

Hydrilla growth in Springwood Waterway has the likelihood to continue; however, the timing and extent of hydrilla re-growth is affected by multiple natural and environmental factors that cannot be controlled or predicted with certainty. While extensive growth of hydrilla is possible at any point in time; it is anticipated that routine spot treatments of hydrilla with herbicides and continuous biological control pressures from the triploid grass carp fish will be sufficient to manage hydrilla re-growth during the current fiscal year. The anticipation of spot treatments for the current fiscal year takes into consideration the historic trend of hydrilla management required at Springwood Waterway, as well as current conditions observed at lake. As with any lake with a history of hydrilla infestation, long-term planning to include financial preparation for whole lake treatment is advised.

Primary expectations are as follows:

- 1) Aquatic herbicide maintenance for non-native vegetation along with hydrilla treatment (as needed)
- 2) Maintain access corridor open for access
- 3) Monitor hydrilla, other submersed aquatic plants, and grass carp fish effects
- 4) Stock grass carp as per permit (40 fish – cost share with Spring Wood Lake)

Funding Expectations

Refer to current fiscal year budget data provided in Exhibit B.

NEXT FISCAL YEAR – Projected Treatment & Funding

Primary Aquatic Plant Management Expectations

The projected treatment plans for the next fiscal year remain consistent with the plans and expectations noted for the current fiscal year. Primary expectations are as follows:

- 1) Continued aquatic herbicide maintenance for non-native vegetation along with hydrilla treatment (as needed)
- 2) Continue to keep access corridor maintained and open for access
- 3) Continued monitoring of hydrilla, other submersed aquatic plants, and grass carp fish effects
- 4) Future grass carp stockings if deemed necessary, pending permit amendment.

Funding Expectations

Refer to next fiscal year budget data provided in Exhibit B.

Exhibits

A – Agenda & Notes (Prior Year) Planning Session

B – Budget/Financial Summaries

C – Roles & Responsibilities

Exhibit A - Notes (Prior Year) Planning Session

Date, Time & Location	:	January 24, 2017, 10:00 a.m., 200 W. County Home Rd – LMP office
Community Liaisons	:	Sarafaith Pekor and Brian Pelski
Liaisons Present	:	Sarafaith Pekor and Brian Pelski
Seminole County	:	Joey Cordell, Gloria Eby, Thomas Calhoun and Joe Saucer

Topics carried forward from prior fiscal year activity [Meeting Notes]

- Fertilizer Ordinance & Shoreline Protection Ordinance
 - Both ordinances contain commitments and directives that will contribute to environmental improvement and protection long-term for lakes and other waterbodies. The Fertilizer Ordinance focuses primarily on fertilizer selection (phosphate free, slow release nitrogen) and application (location, volume, and timing). The Shoreline Protection Ordinance mirrors the State's guidelines for shoreline vegetation and development as historically communicated by the LMP and demonstrated by the best lake management practices followed by MSBU funded services. The Fertilizer Ordinance is tentatively scheduled for BCC review/approval consideration on February 28; while the Shoreline Protection Ordinance development continues with final presentation anticipated later in 2017. [Note: The Shoreline Protection Ordinance approval process involves several levels of approval as the directives need to be included in the County's Land Development Code.] Educational materials are readily available to further promote awareness, understanding and compliance.
 - FWC is proposing a change to their permitting responsibilities respective to aquatic plant management. The proposed (and likely to be adopted rule changes) will have impact on the permits associated with lakes less than 160 acres in size. The importance of Seminole County enacting the Shoreline Protection Ordinance is heightened by this change. In association with the ordinance, the County will be confirming delegated enforcement authority from FWC to provide ongoing compliance efforts respective to adopted protective measures. When presentation dates are confirmed, LMP will provide email updates so interested property owners and residents are aware of these activities. Supportive participation is encouraged.

General Topics & Updates [Meeting Notes]

- 2017 Shoreline Planting Event- dates available
 - 6/3/17 Event to be coordinated via Thomas Calhoun
- Nutrients/Habitat Scores: Bioassessment Indices
 - N/A

Plans for current fiscal year

- Refer to Page 6; Monitor hydrilla and other SAVs for treatment; Monitor grass carp fish stocking needs.
 - i) Several otters have been seen in the lake
- Weir - Brian Pelski communicated that the weir caused some back-up of water, especially during Hurricane Matthew. Gloria Eby to follow-up with PW Engineering.
- Baffle box project - Gloria Eby communicated this project was delayed due to priority projects; LMP requesting reinstatement of the funding via the FY1718 Capital Improvement Plan (CIP)
- Sarafaith Pekor stated concern regarding the treatments in the canal – having observed significant negative impact in the vicinity of her property. Thomas Calhoun will address issues with AAM.
 - i) Aquathol may have been used in higher doses in the area
 - ii) Possible fungus killing off the pickerall weed
- Joey provided information about the Tigercat harvester. Liaisons interested in hearing about the results of the February meeting with the company.
- Projections for fiscal year
 - Refer to Page 6
- Budget – Prior, Current & Proposed
 - Refer to Exhibit B; Liaisons agreed with reducing assessment. ~~from \$175 to \$125~~ Per revenue values in financial table; from “\$125” to “\$75”. Corrected 3/12/18 KM.
- General recommendations for community consideration
 - Refer to Page 5; Increase native aquatic planting in areas devoid of vegetation

Exhibit B - Budget/Financial Overview

MSBU: SPRINGWOOD WATERWAY

Date: January 1, 2018

Tax Year Assessment	2016 \$125.00	2017 \$75.00	2018 \$75.00
Fiscal Year	FY16-17	FY17-18	FY18-19
REVENUE	Actual	Working Budget	Proposed Budget
Beginning Fund Balance	\$ 46,164	\$ 49,478	\$ 50,322
Assessment	\$ 6,283	\$ 3,744	\$ 3,744
Other	\$ 403	\$ 100	\$ 100
MSBU Program Fund Advance	\$ -	\$ -	\$ -
TOTAL	\$ 52,850	\$ 53,322	\$ 54,166
Cost Sharing Lake Management Program			
TOTAL	\$ 52,850	\$ 53,322	\$ 54,166
EXPENDITURE	Actual	Working Budget	Proposed Budget
County Administrative Fee	\$ 1,075	\$ -	\$ 1,075
Fund Advance Repayment	\$ -	\$ -	\$ -
Contracted Services	\$ 2,297	\$ 3,000	\$ 3,125
<i>Routine Services</i>	\$ 503	\$ 1,500	\$ 1,500
<i>Hydrilla/Other SAV</i>	\$ 1,794	\$ 1,500	\$ 1,500
<i>Carp</i>		\$ -	\$ 125
<i>Barrier Maintenance</i>	\$ -	\$ -	\$ -
<i>Barrier Replacement</i>	\$ -	\$ -	\$ -
<i>Nutrient Abatement (Alum)</i>	\$ -	\$ -	\$ -
<i>Harvesting</i>	\$ -	\$ -	\$ -
<i>Other</i>	\$ -	\$ -	\$ -
Contingency Reserve	\$ 49,478	\$ 50,322	\$ 49,966
TOTAL	\$ 52,850	\$ 53,322	\$ 54,166
Cost Sharing Lake Management Program			
TOTAL	\$ 52,850	\$ 53,322	\$ 54,166
Fund Advance BB	\$ -	\$ -	\$ -
Payment (Principal)	\$ -	\$ -	\$ -
Fund Advance EB	\$ -	\$ -	\$ -

Exhibit C – Roles & Responsibilities

ROLES & RESPONSIBILITY

General Outline

COUNTY

Seminole County will

- ✓ Govern the MSBU
- ✓ Provide financial management of MSBU fund
- ✓ Ensure activities conducted with assessment funding align with the scope of services documented in the governing ordinance
- ✓ Ensure the lake is monitored and services are appropriately rendered
- ✓ Maintain decision-making authority relative to lake management activities and aquatic vegetation management and will defer to best lake management practices when making such decisions
- ✓ Provide an ongoing lake management plan based on the defined service scope, permitting, conditions at the lake, funding parameters, and best lake management practices. The Lake Management Plan will be developed and maintained by the Lake Management Program with liaison participation
- ✓ Initiate and manage service contracts, monitor results, and communicate updates on a routine basis
- ✓ Conduct annual meetings that offer opportunity for liaison discussion as to prior, current, and future action plans
- ✓ Encourage liaisons and assist with educational outreach efforts to protect the health and water quality of the waterbody

LIAISONS

Liaisons will

- ✓ Encourage communitywide awareness and participation relative to environmental stewardship recommendations and opportunities
- ✓ Provide communitywide communication and assist the County in the distribution of relevant lake information
- ✓ Attend annual lake management and budget planning sessions conducted by the County
- ✓ Serve as representatives of the community on lake issues; representing the respective lake community as a whole
- ✓ Monitor lake conditions and provide feedback to the County as to observations