

**SPECIAL PUBLICATION SJ2005-SP21**

**EVALUATION OF WETLAND AND LAKE  
CONSTRAINT SITES IN LAKE, ORANGE,  
OSCEOLA, SEMINOLE AND VOLUSIA COUNTIES**





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*Technical Memorandum*

**Evaluation of Wetland and Lake  
Constraint Sites in Lake, Orange,  
Osceola, Seminole and Volusia  
Counties**

Prepared for  
**St. Johns River Water Management District**

September 2005

**CH2MHILL**  
Gainesville, Florida

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# Introduction

## Background and Purpose

The St. Johns River Water Management District (SJRWMD) manages water supply primarily through its Water Supply Planning, Minimum Flows and Levels (MFLs), and Consumptive Use Permitting (CUP) programs. These programs are based on the premise that sustainable water sources must be able to supply the needed amounts, as defined by projected demands, without incurring unacceptable, adverse impacts to the water resource, the natural systems dependent upon the resource, and existing legal users. These restrictions are termed water resource withdrawal constraints.

The objective of this Constraint Site Evaluation is to assess the condition of selected constraint wetlands and water bodies used in the east-central Florida (ECF) ground water optimization model. SJRWMD proposes to use the results of this evaluation to determine if these constraint wetlands and water bodies continue to have value as indicators of unacceptable impacts. The work effort consisted of the following activities:

1. Develop plan for a systematic inspection of 25 selected constraint wetlands in the ECF model domain.
2. Develop a data sheet for summarizing field observations.
3. Inspect each wetland and assess the relative value and hydrologic condition of the wetland, including landuse impacts.
4. Compile a summary report noting exceptions to a wetland status of good functional value; include the field data sheets as an appendix.

This Technical Memorandum (TM) is organized as follows:

- Methods and Approach – development of the list of sites, and the field data sheet.
- Results of Site Inspections
- Discussion of Findings
- Recommendations

## Methods and Approach

### Site Selection

25 sites associated with groundwater model grid cells were selected for their high marginal value in the ECF optimization model by SJRWMD staff for this field verification effort. The 25 sites are distributed across four counties (Lake, Orange, Osceola, Seminole and Volusia counties).

### Field Data Sheet

A four page field data sheet was developed to provide a means for rapid assessment and characterization of each wetland or lake site. It was anticipated that the data sheet could be completed in approximately 30 minutes from the time the observer arrived at the site.

The data sheet allows for assessment of the following:

- Structure and composition of the vegetative community
- Plant community health and vigor
- Condition of hydric soils
- Hydrologic conditions
- Wildlife observations

The data sheet also allows for characterization of the range of general site conditions, as addressed by the following questions:

- **Habitat gradient** – How much of a full habitat gradient is present at the site from aquatic and/or wetland habitat up gradient to and including adjacent native upland habitat?
- **Habitat qualities** – Are the habitats present in relatively natural condition in terms of plant species composition and structure?
- **Hydrology and landscape position** – Has surface hydrology been significantly altered? Is the site hydrologically isolated (is not a flow-through system), or does it have a high-water level outflow?
- **Stormwater inflows and outflows** – Are there any signs of significant adverse effects to habitat, hydrologic regime, or water quality due to inflows of urban or suburban stormwater?
- **Shoreline development** – What percentage of the shoreline is cleared or altered for agricultural, residential or commercial development?
- **Land protection** – Is the wetland or lake on publicly-owned land, or does some other form of land use protection exist?
- **Site Disturbance** – Are there signs of recent land disturbance either within the wetland or water body, or on the adjacent upland perimeter?
- **Drainage Alteration** – Are there signs of recent drainage alteration either within the wetland or water body, or on the adjacent upland perimeter?

To the extent possible, observations relating to the above listed eight site characteristics were recorded. Also, whenever possible the water level at the time of the site visit was related to an indicator of high water level, such as lichen lines or water stains on dock supports or pilings. Also, one or more photos were taken at each site. Spatial coordinates (latitude and longitude) for each site were obtained either with a hand-held Global Positioning System (GPS) or from digital topographic quadrangle maps.

Several other location-related characteristics were noted for each site, such as whether the site has one or more of the following features: 1) located in SJRWMD or South Florida Water Management District (SFWMD), 2) site is monitoring site under a current consumptive use permit (CUP), 3) site is a wetland or water body for which minimum flows and levels (MFLs) are established or are scheduled to be established, 4) site location relative to CONSERV I & II.



## Results and Discussion

The 25 lake and wetland sites were spread across four counties (Lake, Orange, Osceola, and Seminole) (Exhibit 1). All site inspections were done by Bill Dunn of CH2M HILL with the assistance of Robert Fewster, an environmental scientist with SJRWMD. All 25 sites were visited over the course of 4 days, August 10<sup>th</sup>, 11<sup>th</sup>, 23<sup>rd</sup>, and 24<sup>th</sup>. This TM provides the general characteristics of each site (Exhibit 2), an aerial photograph of each site (Appendix A), and the field data sheets for each site (Appendix B).

### General Site Conditions

Sites were generally found to be good candidates for continued use as constraint points in the ECF ground water optimization model. All sites were found to be of sufficient habitat quality and function such that if the area were significantly, adversely impacted by a groundwater or surface water activity, then mitigation would be required.

### Site Specific Conditions

General categories of sites are described as follows.

#### CUP Monitoring Sites and MFL Sites

Fourteen of the 25 sites are being monitored either as an MFL site, or as part of special condition of a CUP (Exhibit 2). Eight of the twenty five sites are CUP monitoring sites, and 11 have established MFLs or are scheduled to have MFLs set in the near future. Five of the sites are both CUP monitoring sites and MFL sites: Trout Lake (No. 50), Gleason (No. 53), Sylvan Lake (No. 75), Crystal Lake (No. 87) and Lake Lucy (No. 136). A number of sites were included in the Sentinel Site Survey (CH2M HILL 2004).

#### CONSERV Area

Sawgrass Lake (No. 170) in SE Lake County is in a CONSERV grove irrigation area. CONSERV I and CONSERV II are areas within Orange County receiving recycled water discharged into either rapid infiltration basins (RIBs), or as citrus grove irrigation water, both of which result in some level of groundwater recharge. More importantly, however, irrigation and RIBs also augment levels in the surficial aquifer system (SAS) locally, and thus can affect levels within adjacent lakes and wetlands, and the use of the site as a constraint.

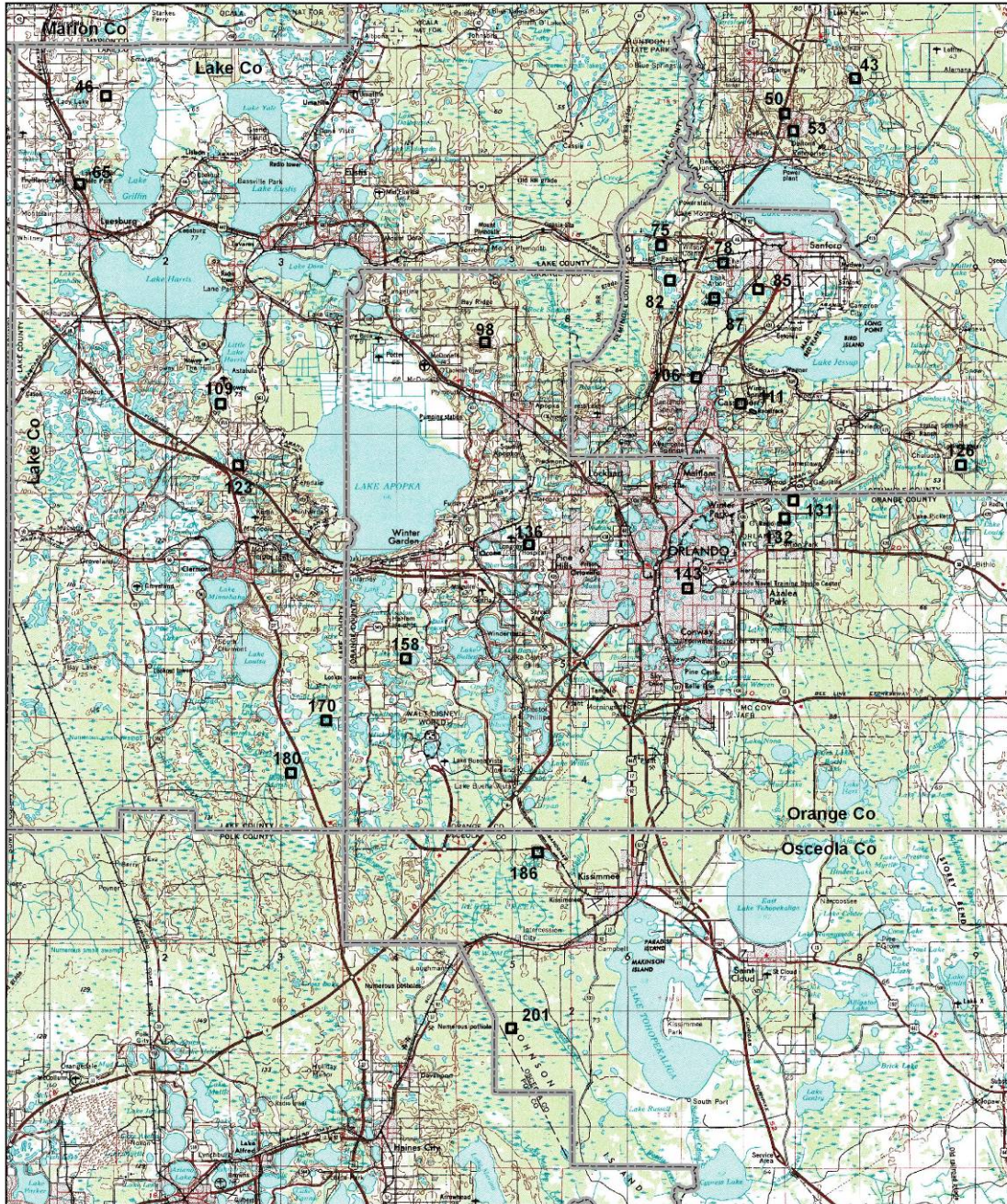
#### Isolated Versus Flow-through Systems

Dead River Marsh (No. 65) is a lobe on the west side of Lake Griffin, thus it is part of the complex of large connected lakes in the upper Ocklawaha River basin and is thus less sensitive as a constraint site.

#### Water Quality impairments

Most sites showed little to no obvious signs of water quality impairment from stormwater inflows. One site, the Lake Cecile Wetland (No. 186) did show signs of adverse impacts from urban stormwater inflows. Stormwater inflow zones at this site contained a great deal of trash and debris, and in general the water body appeared eutrophic with dense stands of cattail, floating mats of filamentous algae, and other nuisance species.

Exhibit 1. Wetland and Lake Constrain Sites in East Central Florida





EXHBIT 2  
Summary of Constraint Wetland and Lake Sites

Site Name	Site No.	County	System Type	Monitoring Site or MFL Site	Surrounding Land Use	Comments
1) Lady Lake Wetland	46	Lake	Small depressional marsh with open water areas		Rural, mix of residences, pasture, planted pine and citrus groves	
2) Dead River Marsh @ Lake Griffin	65	Lake	Dead River marsh is mosaic of cypress-mixed hardwood swamp, shrub swamp and emergent marsh		At Lake Griffin State Park, connected to Lake Griffin, this site is surrounded by urban and suburban development	Wetland is part of a very large flow through system of connected lakes in the upper Ocklawaha River basin.
3) Fisher Lake Wetland	109	Lake	Wetland and lake mosaic composed of many interconnected depressions		Rural, mix of residences, pasture, planted pine and citrus groves	
4) Horseshoe Lake	123	Lake	Small depressional lake with littoral marsh		Rural, mix of residences, pasture, planted pine and citrus groves	
5) Sawgrass Lake	170	Lake	Lake with extensive mosaic forested and emergent wetlands, and floating mats	MFL site	Residential areas border east side, remaining shoreline surrounded by citrus groves.	Surrounding uplands are citrus groves most of which are irrigated with reclaimed water under the CONSERV reuse project.
6) Boggy Marsh	180	Lake	Lake with extensive mosaic forested and emergent wetlands, and floating mats	MFL site	Rural, mix of residences, pasture, planted pine and citrus groves	
7) Wolf Lake	98	Orange	Small depressional lake with littoral marsh	CUP monitoring site, City of Apopka Permit No. 3217.	Surrounded by pasture and planted pine, residential development occurring nearby	Wolf Lake is connected to other nearby lakes under high water conditions.
8) Lake Lucy	136	Orange	Small lake with mosaic of emergent and aquatic vegetation	CUP monitoring site, Orange County Permit No. 3317, MFL site	Surrounded by residential development and roadways	
9) Wetland near Lake Speer	158	Orange	Small, isolated wet prairie near the northwest corner of Lake Speer		Open flatwoods adjacent to new residential development	
10) Lake Pearl	131	Orange	Lake with fringing wetlands on 25% of border	MFL site	Surrounded by residential development and roadways	
11) Lake Irma	132	Orange	Lake with fringing wetlands on south side	MFL site	Surrounded by residential development and roadways	
12) Lake Como	143	Orange	Small circular lake, lacks fringing wetlands		Small neighbor hood park, surrounded by residential and urban development, south of East-West Expressway	It appears that herbicides are used within the lake to control growth of aquatic macrophytes.
13) Lake Cecile Wetland	186	Osceola	Mosaic of forested and emergent wetland and open water		Urban, borders US 192	Wetland is connected to Lake Cecile. Water quality and habitat conditions in the lake are affected by stormwater inflows.
14) Poinciana Cypress Dome	201	Osceola	Cypress dome		Pine plantation adjacent to residential areas in Poinciana	
15) Lake Sylvan	75	Seminole	Lake with fringing wetlands along 50% of shoreline	CUP monitoring site, Seminole County Permit No. 8230, MFL site	Suburban, park borders west side	
16) New Uppsala Wetland	78	Seminole	Emergent marsh and open water	CUP monitoring site, Seminole County Permit No. 8230.	Urban, suburban	Wetland edges are nearly linear due to encroachment by development on all four sides

17) Island Lake @ Heathrow	82	Seminole	Lake with littoral fringe	CUP monitoring site, Seminole County Permit No. 8230.	Suburban, surrounded by residential neighborhoods	Lake is connected to other nearby lakes under high water conditions.
18) Hidden Lake Wetland	85	Seminole	Forested wetland		Suburban, surrounded by residential neighborhoods	
19) Crystal Lake	87	Seminole	Lake with extensive marsh areas, and some fringing swamp	CUP monitoring site, Seminole County Permit No. 8230, MFL site	Suburban, small parks border east & west sides	
20) Wetland	106	Seminole	Forested wetland		Urban, suburban	
21) Wetland	111	Seminole	Forested wetland		Suburban, surrounded by residential neighborhoods	
22) Lake Mills	126	Seminole	Lake with forested fringe on 50% of shoreline	MFL site	Suburban, Lake Mills park borders west side	Lake has inflow and outflow, Mills Creek, which is tributary to the Econ River.
23) Three Island Lake	43	Volusia	Lake with forested fringe on 50% of shoreline	MFL site	Surrounded by low to moderate density residential	Lake is connected to other small lakes nearby under high water conditions.
24) Trout Lake	50	Volusia	Lake with some areas of emergent marsh	CUP monitoring site, Volusia County Permit No. 50157, MFL site	Park on west side, surrounded by residential neighborhoods	
25) Lake Gleason	53	Volusia	Lake with some areas of emergent marsh, and floating-leaf aquatics	CUP monitoring site, Volusia County Permit No. 50157, MFL site	Urban, west side borders I-4	

## Landscape Setting –Urban, Suburban, or Rural

None of the sites is located in a pristine setting, that is they are not surrounded by undisturbed native upland habitat. Nine sites are in rural areas or areas with low density residential development (Exhibit 2). The remaining 16 sites are in urban or suburban settings with moderate to high density residential areas, commercial and retail business areas, and busy, multilane roadways. All of the rural areas had significant land development activities going on nearby to them and are expected to be surrounded by residential and commercial development in the near future.

## Access to Sites

For the purpose of monitoring hydrological and ecological conditions at these sites in the future, access is needed for both installation of monitoring equipment and for ongoing data collection. As already noted 14 of the sites are already part of a CUP monitoring program or are current or future MFL sites. Two of the remaining sites, Dead River Marsh (No. 65) and Lake Como (No. 143) are parks (Exhibit 2) and therefore it is assumed that the SJRWMD could arrange for access. Access to the remaining 9 sites would have to be arranged with adjacent property owners. Access to some of these 9 sites may be available from adjacent permitted stormwater management facilities.

## Summary and Recommendations

The 25 sites meet the requirements for continued use as Constraint Sites for the ECF optimization model and District's ongoing regional water supply planning efforts. Fourteen of the sites are already being monitored for hydrological and ecological conditions, or are scheduled to be monitored as an MFL site or as a condition of a CUP. Most sites are in either urban or suburban landscapes. Those sites that are still in rural areas are likely to be surrounded by residential and commercial development in the future. Even with development, the wetland and lake sites retain high value in terms of the water resource, habitat and socioeconomic benefits that they provide.

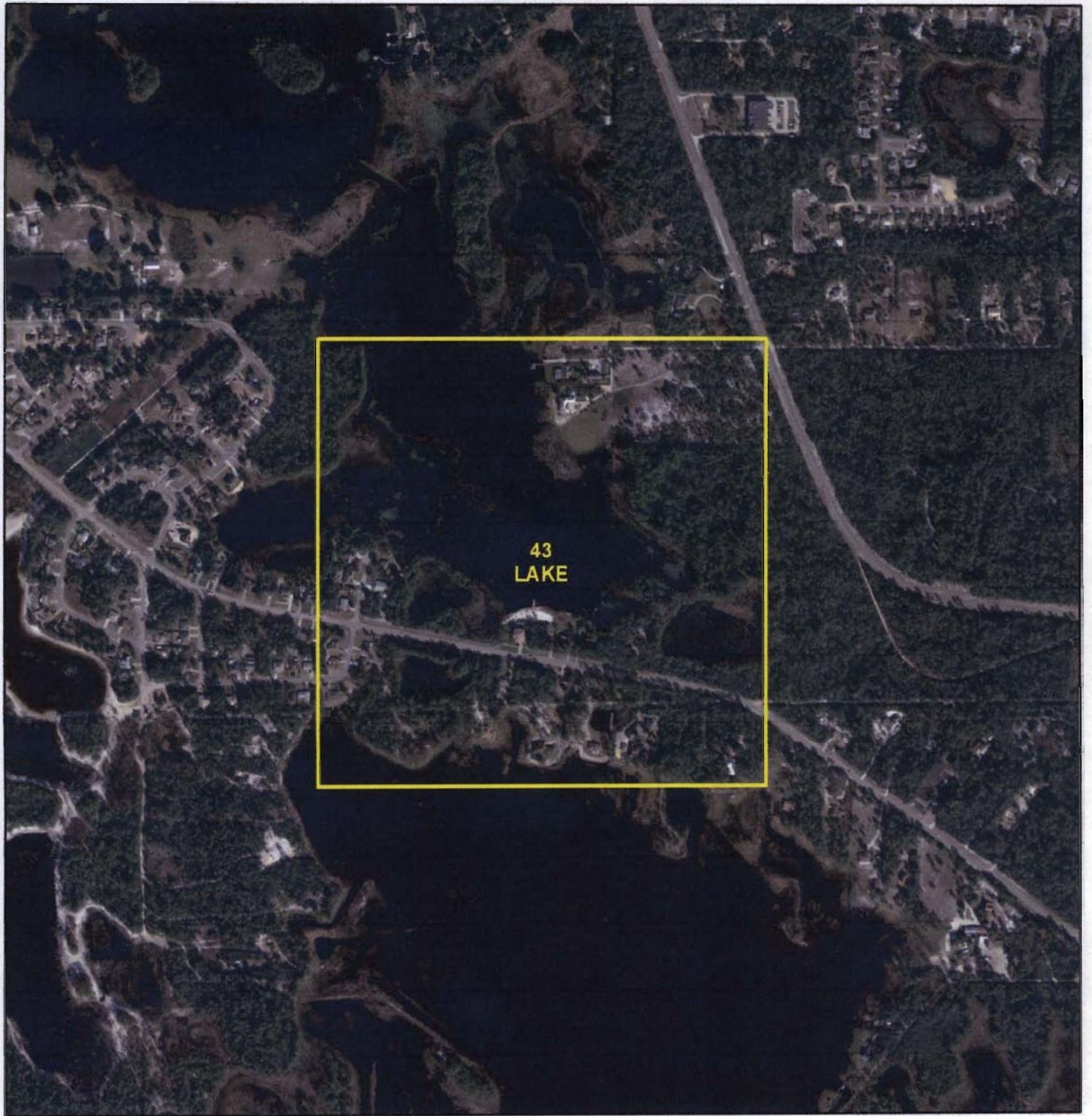
Many of the sites are hydrologically isolated, others are connected to other nearby lakes or wetlands, and a few are a part of flowing water systems. Constraint sites that lie within major flowing water systems are likely to be less sensitive than hydrologically isolated systems to the effects of groundwater withdrawals. Dead River Marsh in particular should be evaluated in this regard, as it is part of Lake Griffin in the upper Ocklawaha chain of lakes.

If all sites need to be monitored in the future, then access to many of the sites will have to be negotiated by the District. This TM assumes that for the fourteen sites that are either CUP or MFL sites, the District has already secured access. For the remaining sites access, if needed, will have to be negotiated with one or more of the adjacent property owners.

## References

CH2M HILL. 2004. Inventory and Ranking of Candidate Sentinel Monitoring Sites in East Central Florida (ECF) for SJRWMD's Adaptive Management Monitoring Network Project. Technical Memorandum prepared for St. Johns River Water Management District, Palatka, FL.

**Appendix A**  
**Aerial Photographs of Constraint Sites in Lake, Orange, Osceola,  
Seminole and Volusia Counties**



43  
LAKE



0 0.1 0.2 Miles



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46  
WETLAND

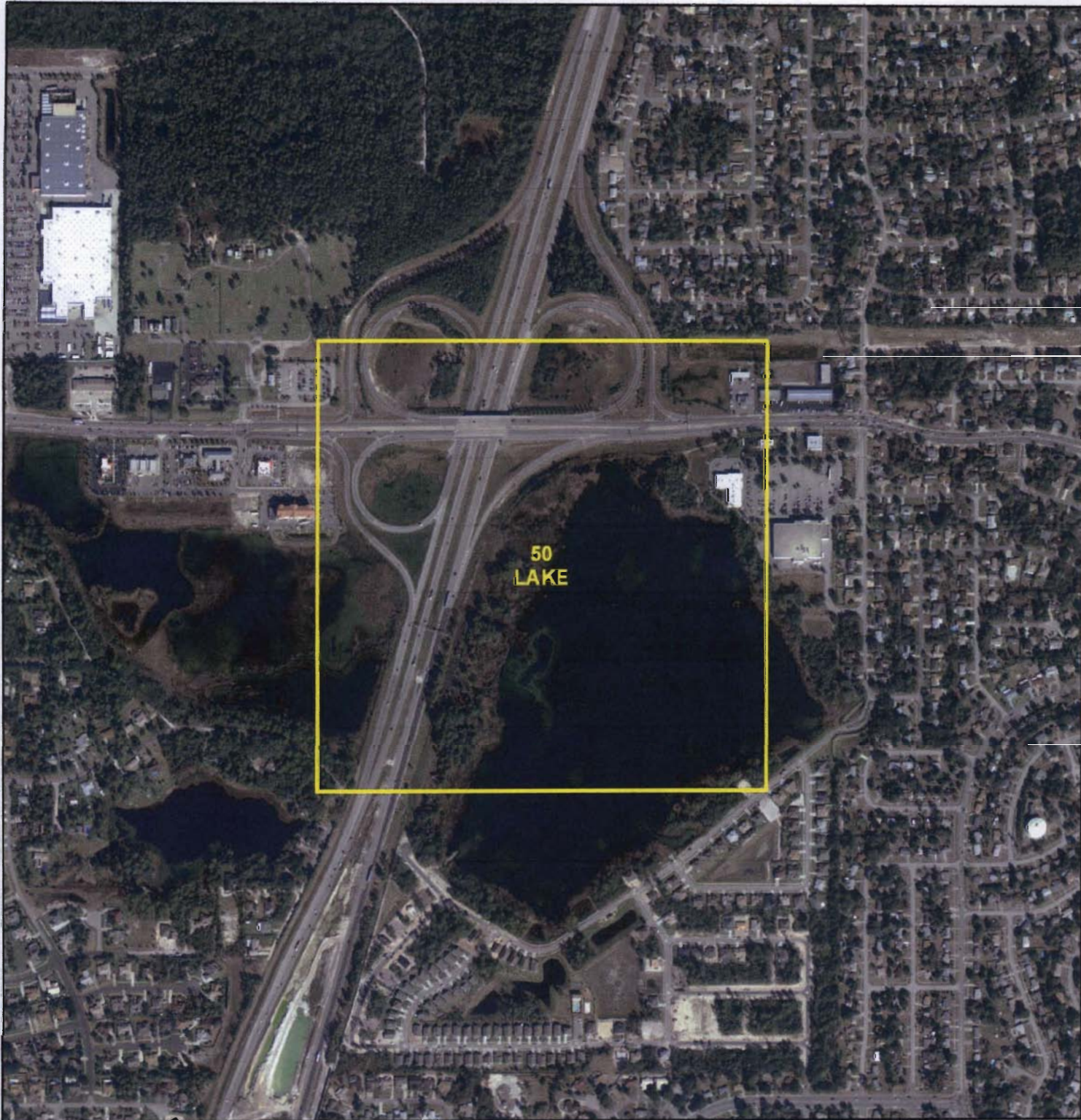


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50  
LAKE

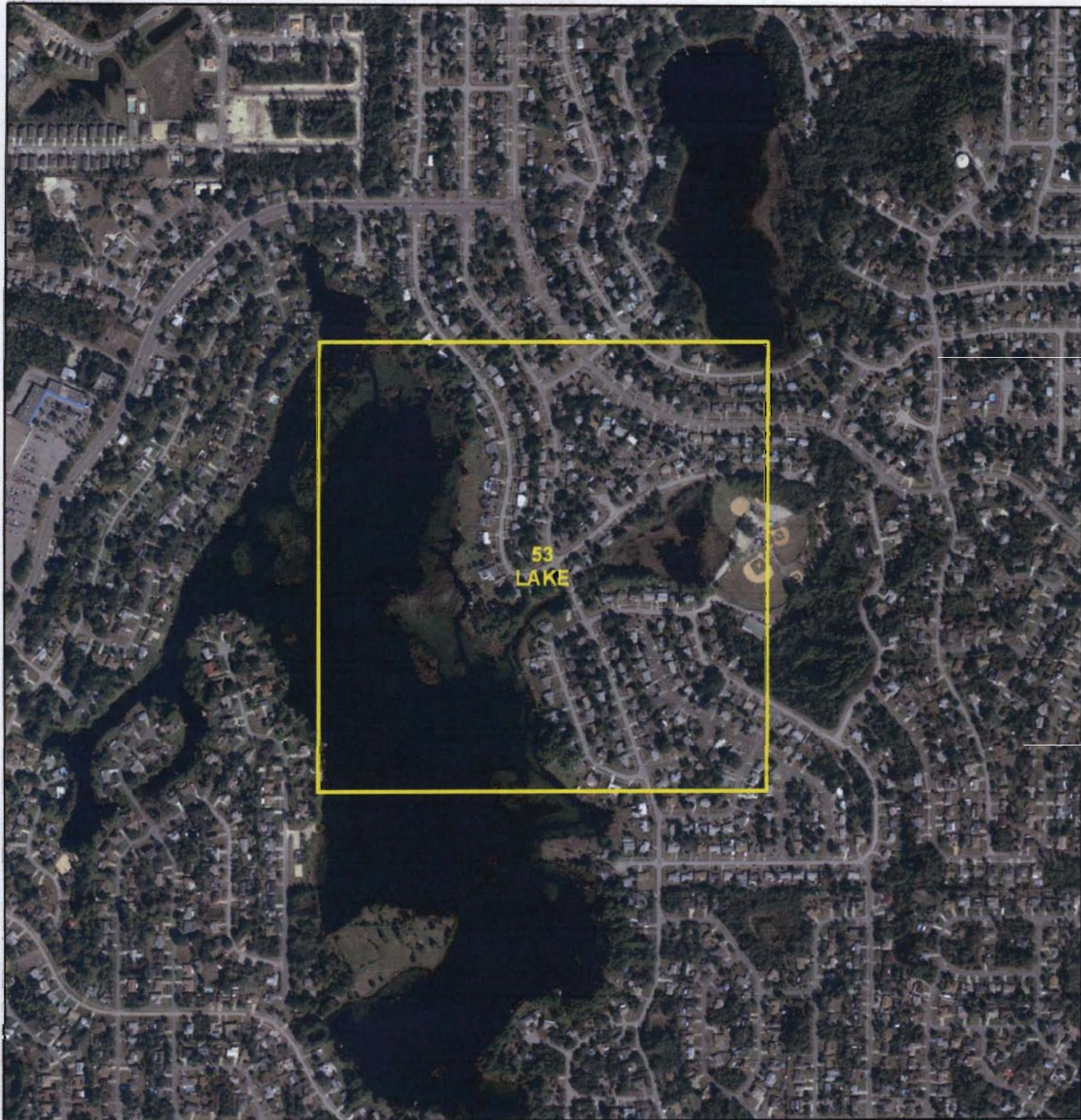


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53  
LAKE



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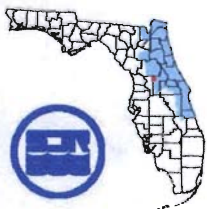


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65  
WETLAND

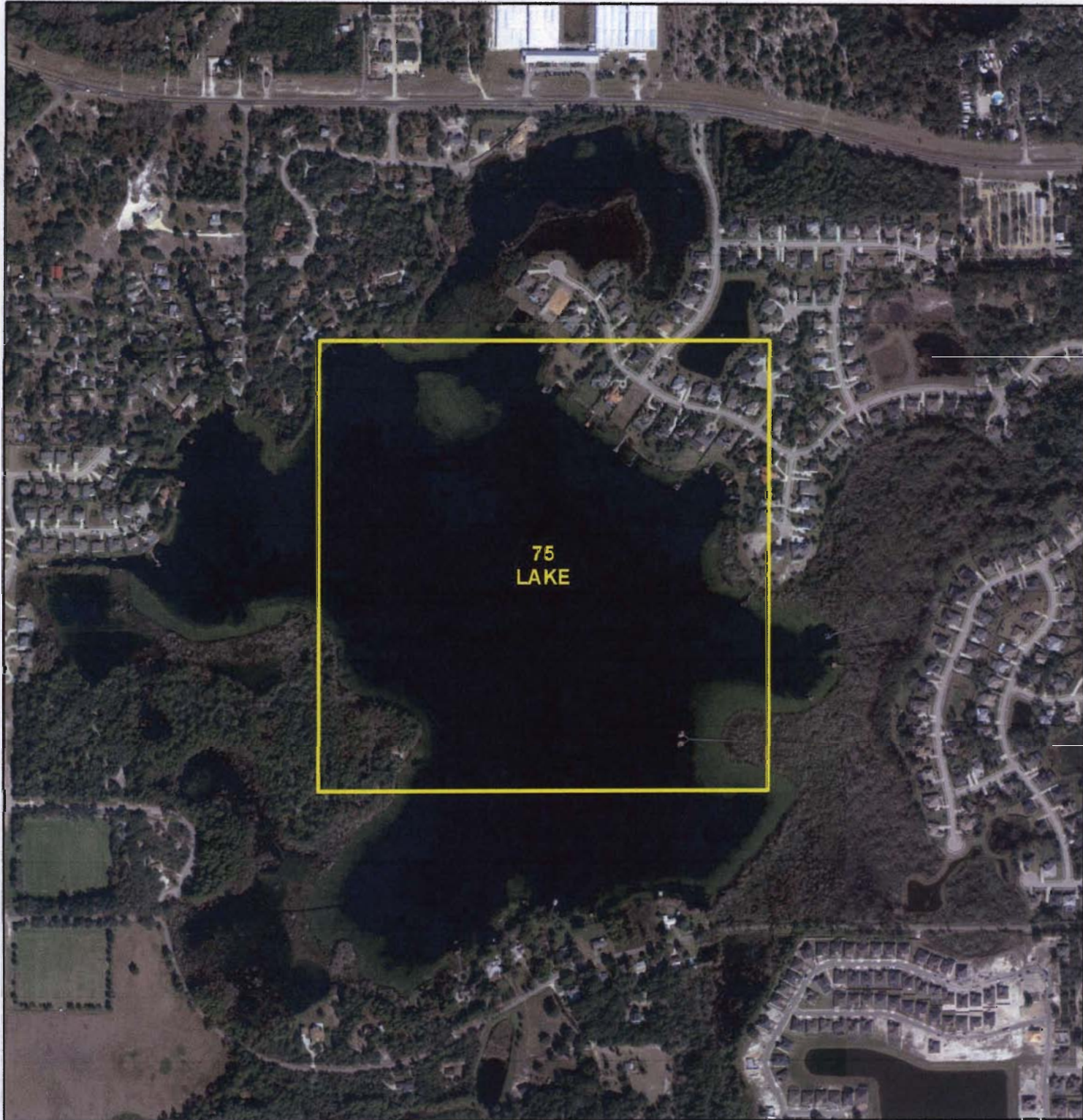


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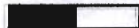




75  
LAKE



0 0.05 0.1 Miles



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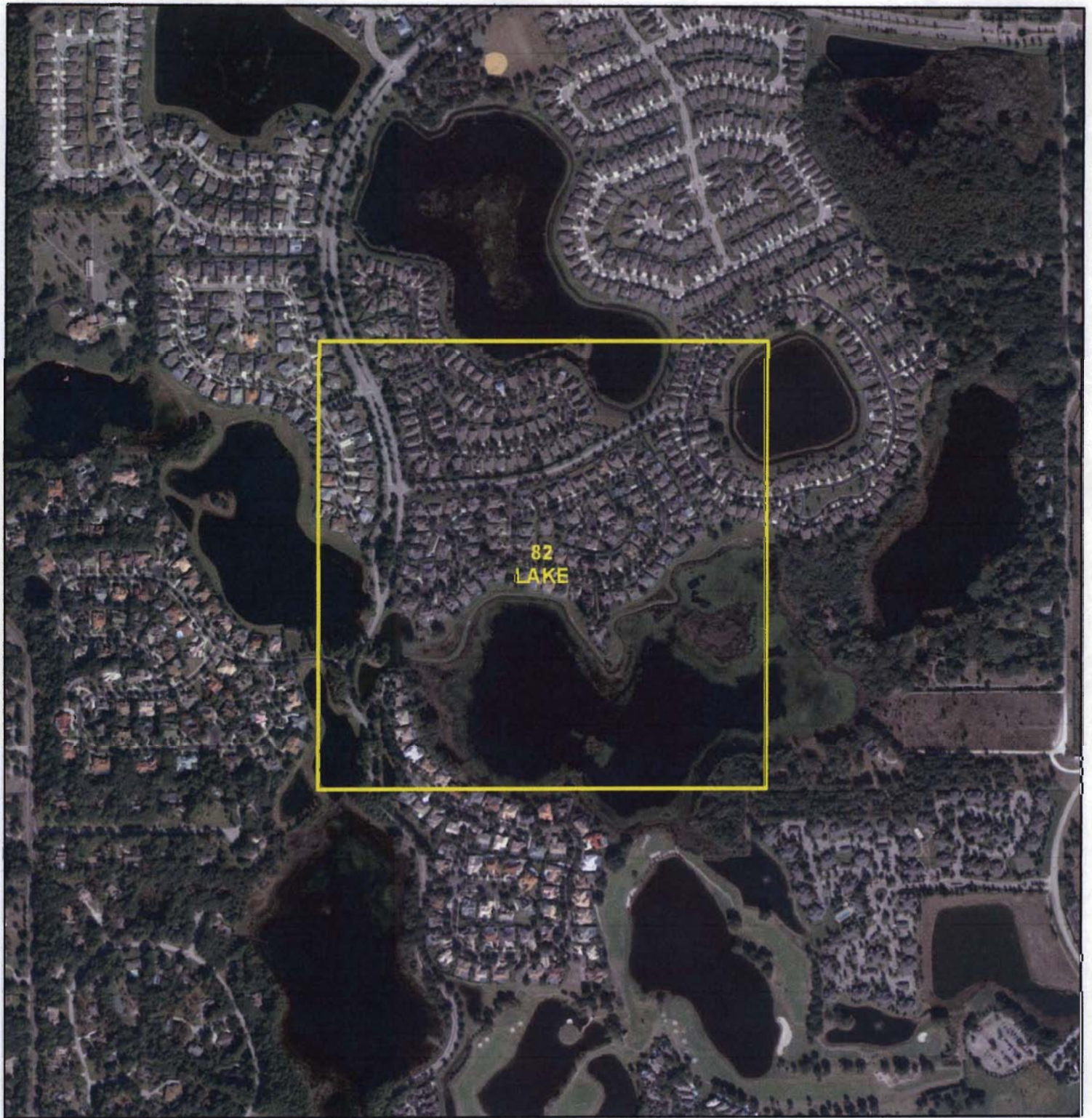


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82  
LAKE

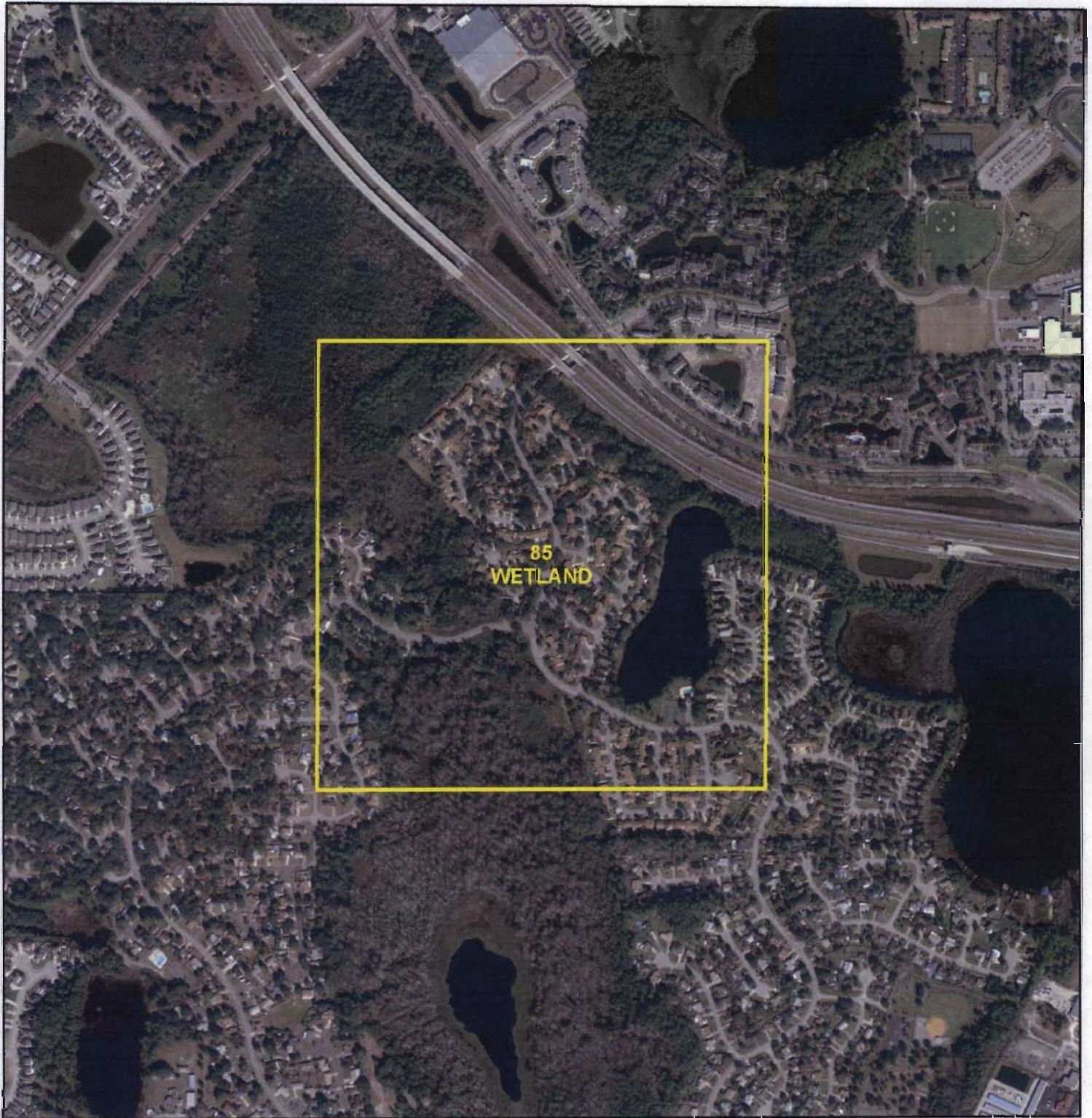


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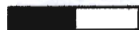




85  
WETLAND



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87  
LAKE

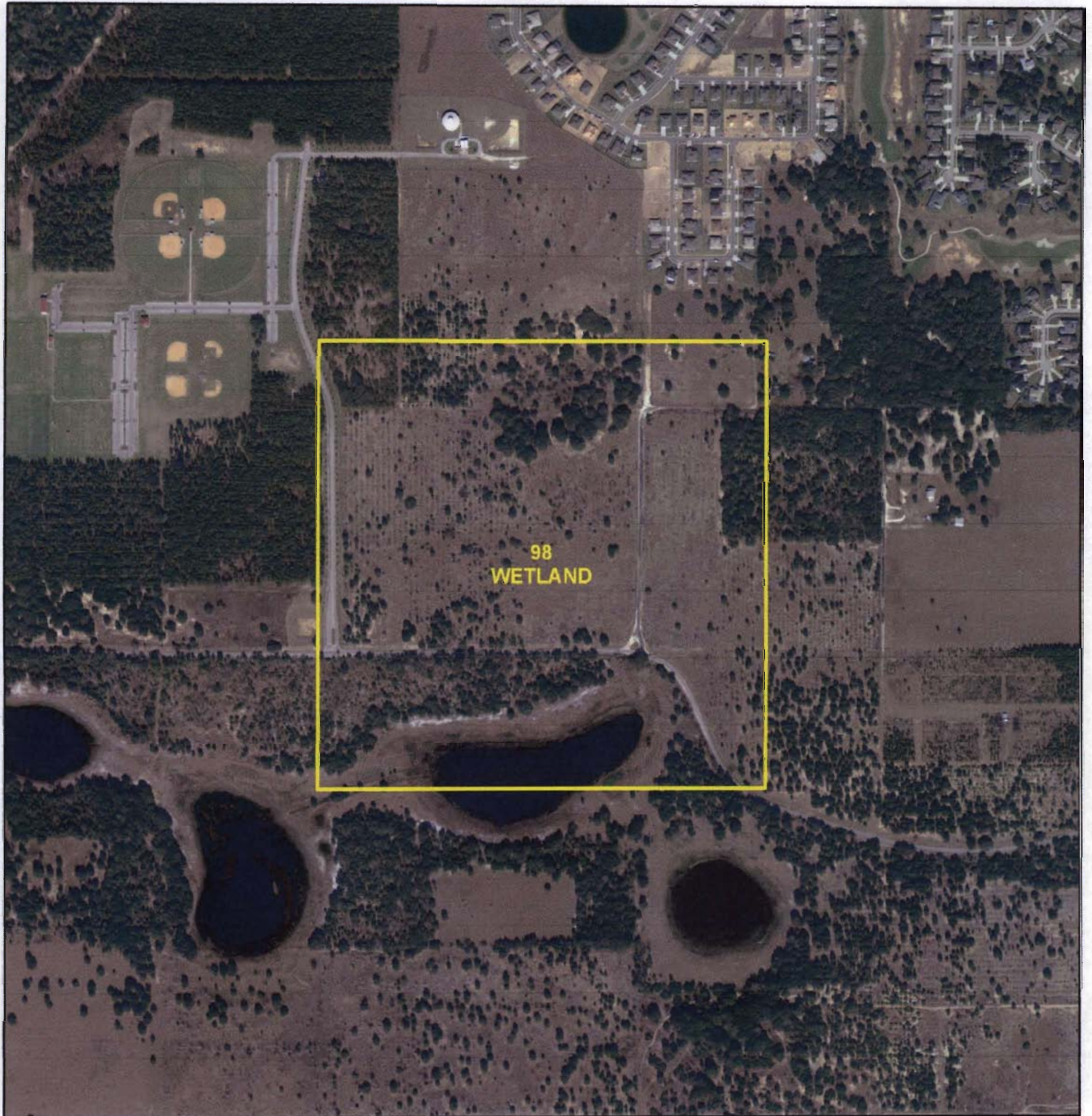


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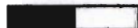




98  
WETLAND



0 0.05 0.1 Miles



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106  
WETLAND

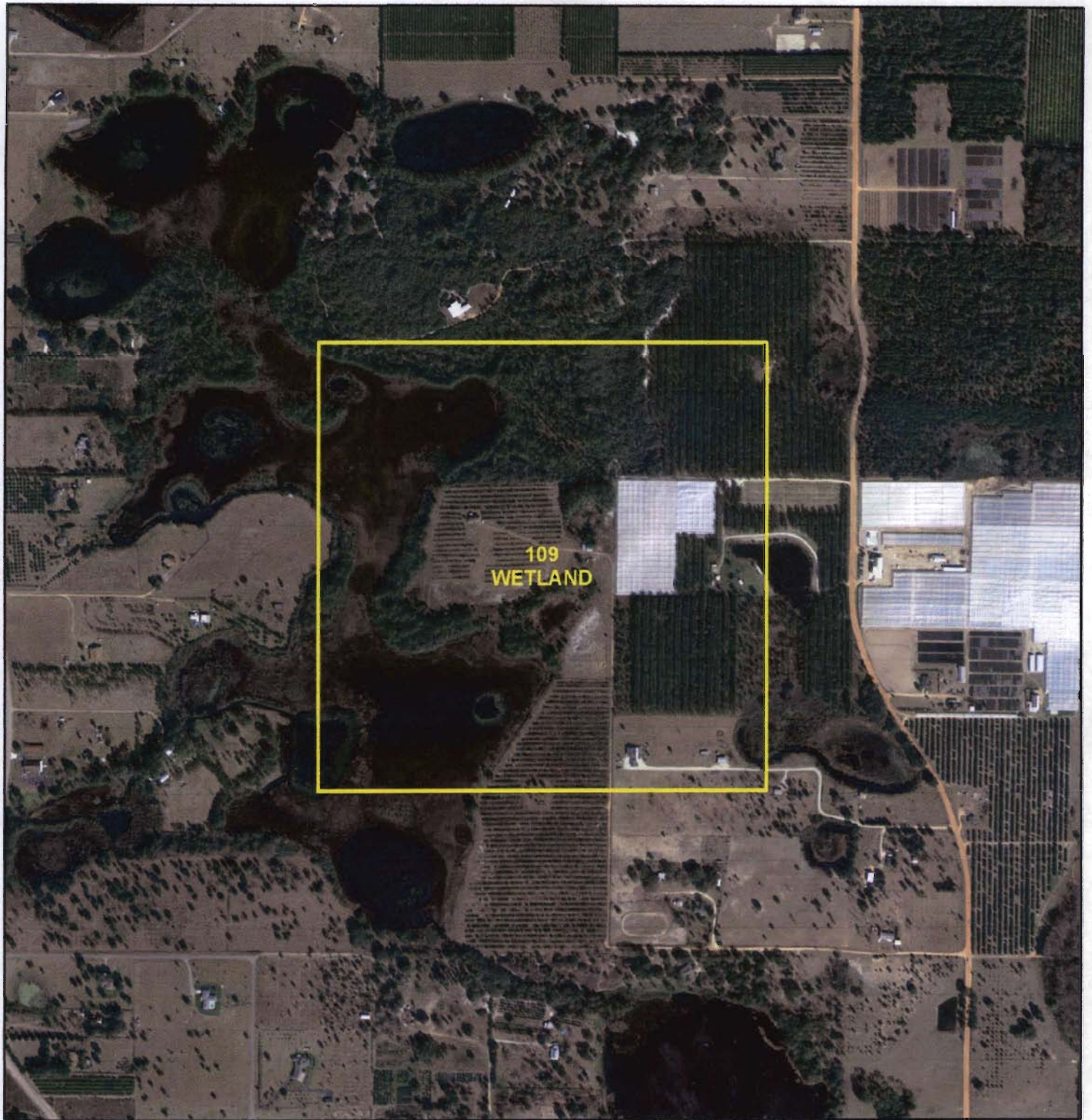


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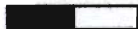




109  
WETLAND



0 0.05 0.1 Miles



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123  
WETLAND

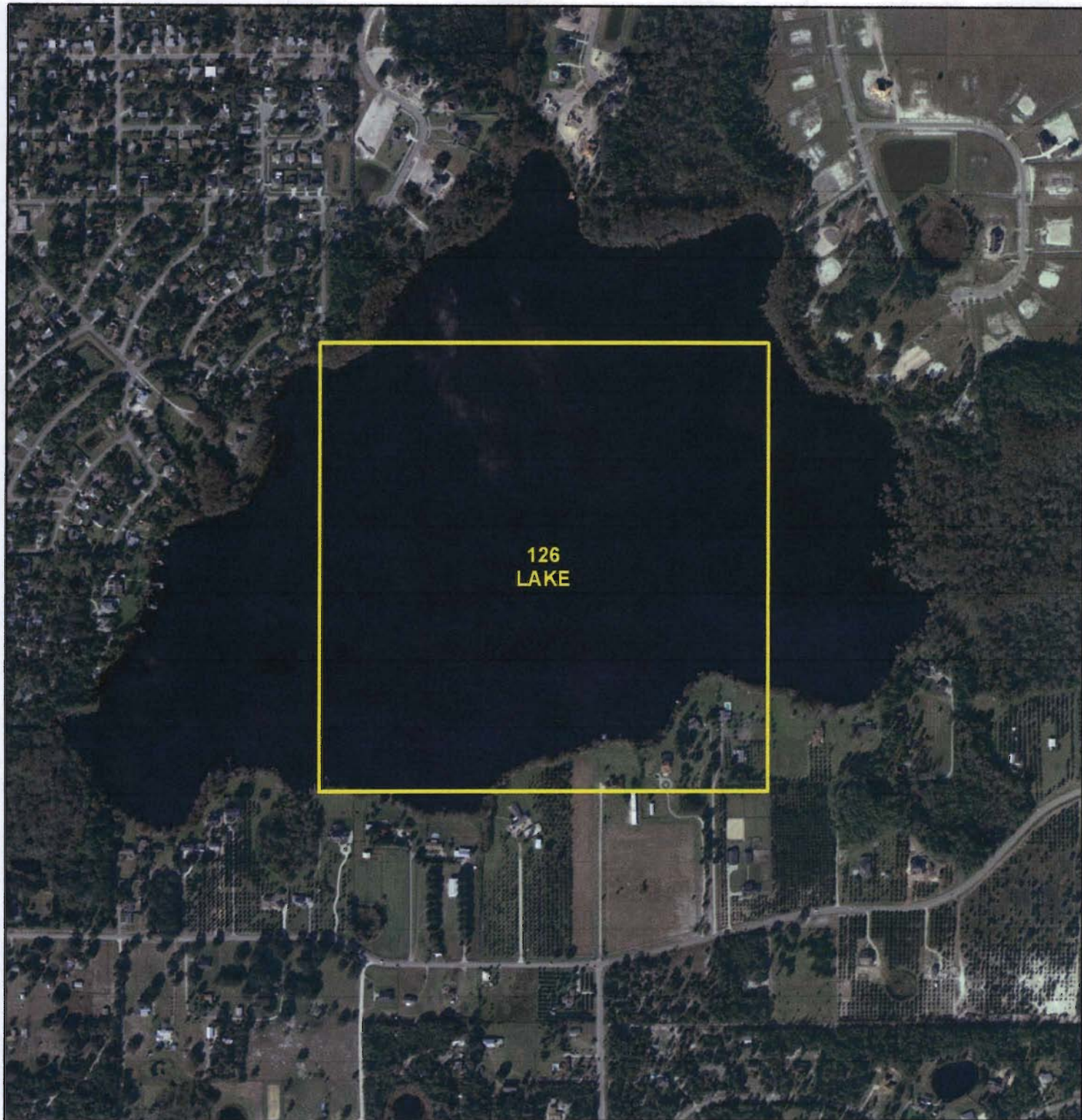


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126  
LAKE



0 0.05 0.1 Miles



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131  
LAKE



0 0.05 0.1 Miles



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132  
LAKE



0 0.05 0.1 Miles



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136  
WETLAND



0 0.05 0.1 Miles



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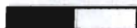




143  
LAKE



0 0.05 0.1 Miles

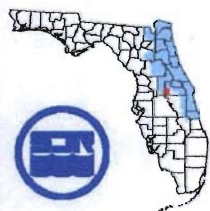


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158  
WETLAND



0 0.05 0.1 Miles



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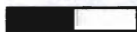




170  
LAKE

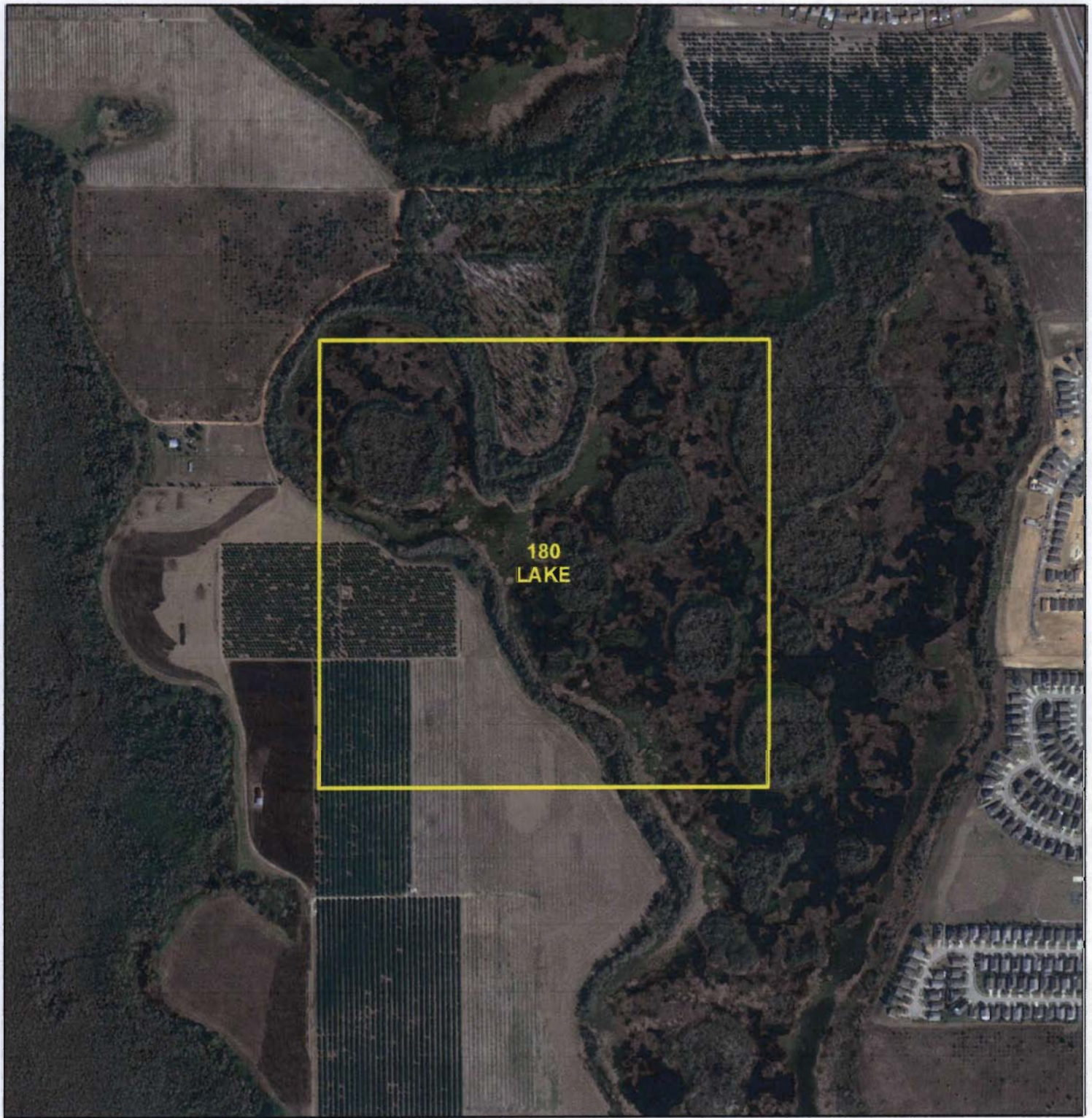


0 0.05 0.1 Miles



The St. Johns River Water Management District prepares and uses this information for its own purposes and this information may not be suitable for other purposes. This information is provided as is. Further documentation of this data can be obtained by contacting: St. Johns River Water Management District, Geographic Information Systems, Program Management, P.O. Box 1429, 4049 Reid Street Palatka, Florida 32178-1429 Tel: (386) 329-4176.

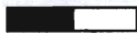




180  
LAKE



0 0.05 0.1 Miles



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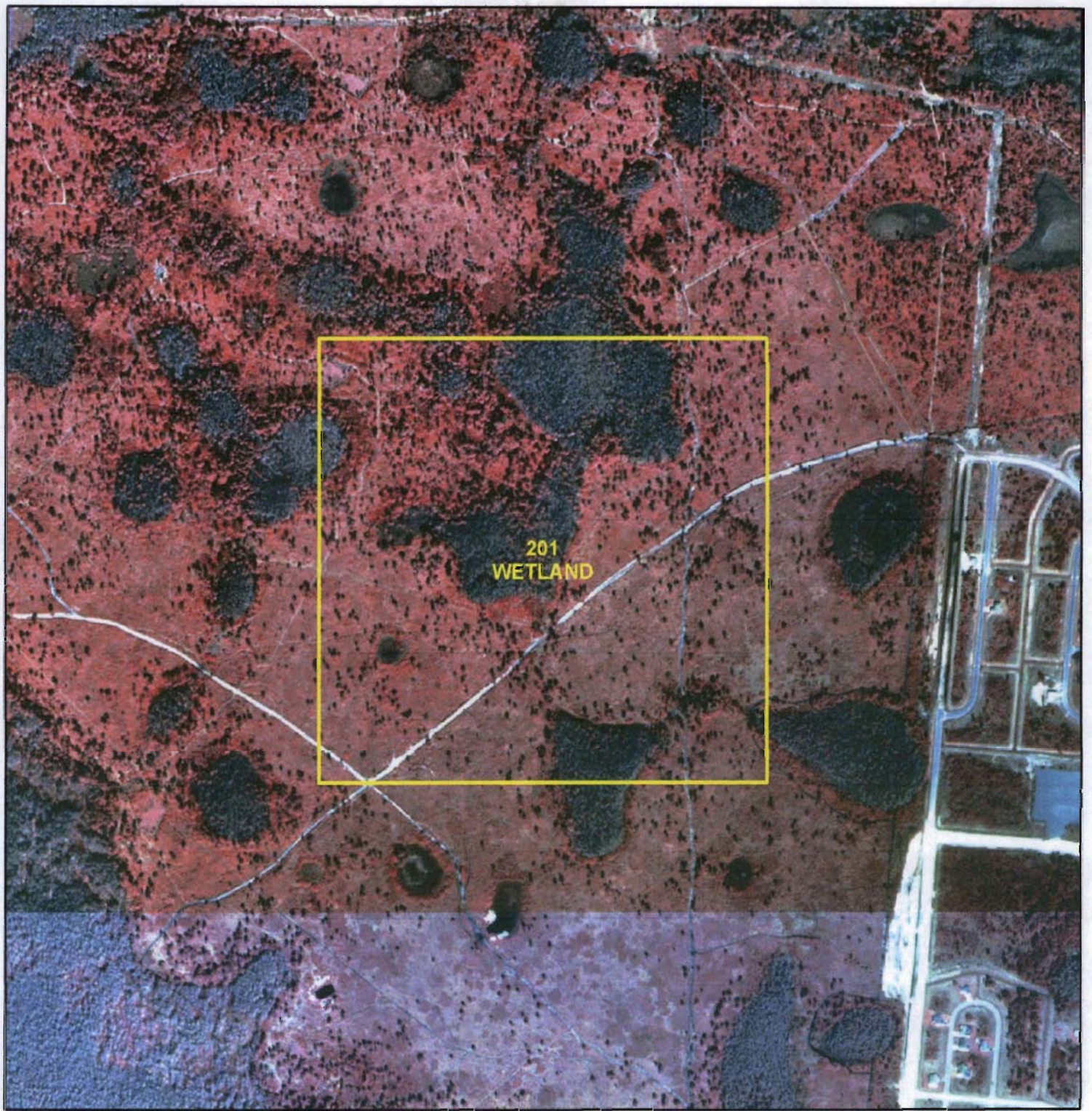


0 0.05 0.1 Miles



The St. Johns River Water Management District prepares and uses this information for its own purposes and this information may not be suitable for other purposes. This information is provided as is. Further documentation of this data can be obtained by contacting: St. Johns River Water Management District, Geographic Information Systems, Program Management, P.O. Box 1429, 4049 Reid Street Palatka, Florida 32178-1429 Tel: (386) 329-4176.





201  
WETLAND



0 0.05 0.1 Miles



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**Appendix B**  
**Field Data Forms**



# Wetland Assessment Field Form--SJRWMD Constraint Wetland Project

PROJECT: Three Island Lake SJRWMD SITE ID: #43 COUNTY: Volusia

OTHER LOCATION NOTES: enter at Glen Lock Court cul de sac

PERSONNEL : Bill Dunn and Bob Fewster DATE: 8/10/05 TIME: 9:00

GPS COORDINATES: Latitude : N 28 56.233 Longitude: W 81 12.678

## PHOTOGRAPHY

Roll: new Photo Frame #s: 1-5 pan of lake

Description of photo(s): lake w/emergent and aquatic zones, but mostly open water

## WATER LEVEL:

Water Depth: up to lower edge of pines Staff Gage or Piezometer Level (if present):     

## VEGETATION.....lake with other zones

Major Vegetation Zones Present in Wetland or Water Body:      forested,      shrub scrub, X marsh, X aquatic,      pond, X lake,      other (list):     

## HERBACEOUS GROUNDCOVER (% cover of OBL and/or FACW species to nearest 10%)

Zone 1: Composition:      Zone 2: Composition:     

Dominant Groundcover Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1:      Zone 2:     

Total % Groundcover:      Total % Cover     

Species/1/2/3/4/5: Maidencane     

Species/1/2/3/4/5: Polygonum     

Species/1/2/3/4/5: Salvinia     

Species/1/2/3/4/5: Spartina bakerii     

Species/1/2/3/4/5: Eleocharis     

Groundcover Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal groundcover zonation; 2) Somewhat abnormal zonation - some signs of abnormal groundcover zonation mainly limited to the wetland edge; 3) Normal groundcover zonation.

Additional Comments on Groundcover     

## NUISANCE/WEEDY GROUNDCOVER

Composition--Circle the appropriate category: 1) > 50% of all groundcover species cover is weeds; 2) > 10% and < 50% of all groundcover species cover is weeds (either dispersed throughout wetland or in dense localized patches); 3) < 10% of all groundcover species cover is weeds or weeds are absent.

Additional Comments on Weedy Species little to none

## SHRUB....transition zone mainly

Composition      % cover OBL and/or FACW shrub species to nearest 10%

Dominant Shrub Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1:      Zone 2:     

Total % Shrub cover:      Total % Cover     

Species/1/2/3/4/5: Myrica     

Species/1/2/3/4/5: Cephalanthus     

Species/1/2/3/4/5: Hypericum fasciculatum     

Species/1/2/3/4/5:          

Shrub and Small Tree Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal shrub and tree zonation; 2) Somewhat abnormal zonation - some signs of abnormal shrub and tree zonation mainly limited to the wetland edge; 3) Normal shrub and tree zonation.

Additional Comments on Shrubs \_\_\_\_\_

**WEEDY SHRUB**

**Composition** --Circle the appropriate category: 1) > 50% of all shrub species cover is weeds; 2) > 10% and < 50% of all shrub species cover is (either dispersed throughout the wetland or in dense localized patches); 3) < 10% of all shrub species cover is weeds or weeds are absent.

Additional Comments on Weedy Shrubs little to none \_\_\_\_\_

---

**CANOPY (TREE)...pine forest border in sections**

**Dominant Canopy Species Cover Classes** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_

Total % Canopy Cover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: slash pine \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: cabbage palm \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

**Tree Zonation**--Circle the appropriate category: 1) Abnormal zonation – multiple signs of abnormal distribution and cover; 2) Somewhat abnormal zonation with moderately abnormal distribution and cover; 3) Normal zonation with normal distribution and cover.

Additional Comments on Tree Species \_\_\_\_\_

---

**AQUATIC**

**Dominant Aquatic Species % Cover Categories:** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_

Total % Aquatic Plant Cover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Nuphar \_\_\_\_\_

Species/1/2/3/4/5: Nymphaea \_\_\_\_\_

Species/1/2/3/4/5: Nymphoides \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

**Aquatic Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal plant zonation; 2) Somewhat abnormal zonation - some signs of abnormal zonation; 3) Normal aquatic plant zonation

Additional Comments on Aquatic Species: large grove of dead pines directly across the lake @ large home (see photo in the middle of pan) \_\_\_\_\_

---

## PLANT COMMUNITY HEALTH

Does community show unusual signs of stress? not in lake or wetland Visually estimate % of wetland zone exhibiting signs of stress; \_\_\_\_\_

Type of stress observed (e.g., dead or dying plants, discolored foliage, wilted or rolled leaves, premature leaf fall or senescence, etc.): \_\_\_\_\_

Does stress appear moisture related, or is there sign of disease or insect injury? \_\_\_\_\_

### Overall Condition of Plant Community is:

Circle Appropriate Category: **1)** Plants are dead or dying; **2)** poor vigor with obvious decline (foliage discolored, wilted, premature leaf fall) ; **3)** fair vigor, some signs of stress or decline; **4)** medium vigor, some yellow-green foliage, or signs of leaf wilt or leaf curling; **5)** appearance good, foliage green but foliage thin, less than normal growth for the season; **6)** excellent vigor, foliage green in color, normal growth for the season.

Additional Comments on Health: some pine trees dead along edges \_\_\_\_\_

---

## HYDIC SOILS

Look for signs of subsidence, oxidation or abnormal desiccation and select the category which best describes the current conditions of the wetland soils. This assessment may not be applicable (NA) if site is inundated.

Circle Appropriate Category: **1)** Substantial subsidence/oxidation; **2)** Moderate subsidence/oxidation; **3)** Little or no evidence of subsidence/oxidation

Circle Appropriate Soil Condition: **1)** Inundated, **2)** Saturated, **3)** Moist, **4)** Dry

Additional Comments on Soil \_\_\_\_\_

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## HYDROLOGY

Current Water Level Indicators (e.g., mosses, lichens, stains, pine edge)

Estimated depth of water relative to high water marks or indicators: pine line-water w/ 0.0-0.5 of tree line; describe type of indicator: \_\_\_\_\_

Circle the Appropriate Category: **1)** None of these indicators are present or indicators are at ground level; **2)** Indicators present; however, indistinct or abnormally low in comparison to the historic normal pool; **3)** Indicators are distinct and at the appropriate level for the season.

Additional Comments on Hydrology \_\_\_\_\_

---

## WILDLIFE AND LISTED SPECIES

Listed Flora and Fauna Observed (Include activity information for fauna)

### Wetland-Dependent Fauna Observed:

Activity codes (M = mating, F = foraging, FT = flyover/traveling; N = nesting, OT = other)

Observation codes (O = observed, S = sign [scat, tracks, call or other signs of presence])

## GENERAL SITE DESCRIPTION CATEGORIES

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### Habitat Gradient

Circle Appropriate Category: **1)** full habitat gradient present from aquatic/wetland up gradient to native upland habitat; **2)** native upland habitat is present along 50-75% of perimeter; **3)** native upland habitat is present along 25-50% of perimeter; **4)** native upland habitat is present along less than 25% of perimeter.

Additional Comments on Habitat Gradient 50% - 2.5

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### Habitat Quality

Circle Appropriate Category: **1)** habitats present are in relatively natural condition in terms of community structure and plant species composition; **2)** habitats are in degraded condition in terms of community structure and plant species composition ; **3)** habitats are in severely degraded condition in terms of community structure and plant species composition.

Additional Comments on Habitat Quality \_\_\_\_\_

---

### Hydrology and Landscape Position

Circle Appropriate Category: **1)** wetland/aquatic system is isolated, with no regular surface water inflow or outflow; **2)** system has surface water inflow or outflow only at high water condition; **3)** system is flow-through with surface water inflow and outflow.

Additional Comments on Landscape Position: inter-connected to other nearby lakes

---

### Storm Water Inflows and Outflows

Circle Appropriate Category: **1)** no significant adverse effects to habitat, hydrologic regime, or water quality due to inflow of stormwater system; **2)** habitat conditions are generally good, but adverse effects to habitat, hydrologic regime, or water quality are evident due to inflow stormwater inflows; **3)** ) habitat conditions are degraded by adverse effects of stormwater inflows.

Additional Comments on Surface Water \_\_\_\_\_

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### Shoreline Development

Circle Appropriate Category: **1)** less than 10% of shoreline/perimeter is developed; **2)** 10 to 30% of shoreline/perimeter is developed; **3)** 30 to 60% of shoreline/perimeter is developed; **4)** greater than 60% of shoreline/perimeter is developed.

Additional Comments on Shoreline: \_\_\_\_\_

---

### Land Protection

Circle Appropriate Category: **1)** site and surrounding lands are in public ownership, or land use is limited to conservation/preservation; **2)** some but not all site and surrounding lands are in public ownership, or protected by easement ; **3)** site and surrounding lands are in not public ownership, nor protected by easement.

Additional Comments on Land Protection \_\_\_\_\_

---

### Site Disturbance

Circle Appropriate Category: **1)** less than 10% wetland/water body recent land clearance or disturbance; **2)** 10 to 30% of wetland/water body is affected by recent land disturbance; **3)** 30 to 60% of wetland/water body is affected by recent land disturbance; **4)** greater than 60% of wetland/water body is affected by recent land disturbance.

Circle Appropriate Category: **1)** less than 10% uplands adjacent wetland/water body affected by recent land clearance or disturbance; **2)** 10 to 30% of upland is affected by recent land disturbance; **3)** 30 to 60% of upland is affected by recent land disturbance; **4)** greater than 60% of upland is affected by recent land disturbance.

Additional Comments on Land Disturbance \_\_\_\_\_

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### Drainage Alteration

Are significant drainage features present on the site? No If yes, describe: \_\_\_\_\_

Are there significant drainage features on lands bordering the wetland/water body? No If yes, describe: \_\_\_\_\_  
photo's \_\_\_\_\_

Additional Comments on Drainage \_\_\_\_\_

# Wetland Assessment Field Form--SJRWMD Constraint Wetland Project

PROJECT: Wetland near Lady Lake SJRWMD SITE ID: #46 COUNTY: Lake

OTHER LOCATION NOTES: on Richardson Rd, off Lake Griffin Rd

PERSONNEL : Bill Dunn and Bob Fewster DATE: 8/25/05 TIME: 10:00

GPS COORDINATES: Latitude : N 28 55.536 Longitude: W 81 52.487

## PHOTOGRAPHY

Roll: \_\_\_\_\_ Photo Frame #s: 3

Description of photo(s):

## WATER LEVEL

Water Depth: \_\_\_\_\_ Staff Gage or Piezometer Level (if present): \_\_\_\_\_

## VEGETATION

Major Vegetation Zones Present in Wetland or Water Body: \_\_\_\_\_ forested, \_\_\_\_\_ shrub scrub, X marsh, \_\_\_\_\_ aquatic, X pond, \_\_\_\_\_ lake, \_\_\_\_\_ other (list): \_\_\_\_\_

## HERBACEOUS GROUNDCOVER (% cover of OBL and/or FACW species to nearest 10%)

Zone 1: Composition: \_\_\_\_\_ Zone 2: Composition: \_\_\_\_\_

Dominant Groundcover Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_  
Total % Groundcover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Dogfennel \_\_\_\_\_

Species/1/2/3/4/5: Pontederia \_\_\_\_\_

Species/1/2/3/4/5: Maidencane \_\_\_\_\_

Species/1/2/3/4/5: Rhynchospora corniculata \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

**Groundcover Species Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal groundcover zonation; 2) Somewhat abnormal zonation - some signs of abnormal groundcover zonation mainly limited to the wetland edge; 3) Normal groundcover zonation.

Additional Comments on Groundcover \_\_\_\_\_

## NUISANCE/WEEDY GROUNDCOVER

**Composition**--Circle the appropriate category: 1) > 50% of all groundcover species cover is weeds; 2) > 10% and < 50% of all groundcover species cover is weeds (either dispersed throughout wetland or in dense localized patches); 3) < 10% of all groundcover species cover is weeds or weeds are absent.

Additional Comments on Weedy Species \_\_\_\_\_

## SHRUB --NOT APPLICABLE

Composition \_\_\_\_\_ % cover OBL and/or FACW shrub species to nearest 10%

Dominant Shrub Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_  
Total % Shrub cover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

**Shrub and Small Tree Species Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal shrub and tree zonation; 2) Somewhat abnormal zonation - some signs of abnormal shrub and tree zonation mainly limited to the wetland edge; 3) Normal shrub and tree zonation.



Additional Comments on Shrubs \_\_\_\_\_

**WEEDY SHRUB**

**Composition** --Circle the appropriate category: 1) > 50% of all shrub species cover is weeds; 2) > 10% and < 50% of all shrub species cover is (either dispersed throughout the wetland or in dense localized patches); 3) < 10% of all shrub species cover is weeds or weeds are absent.

Additional Comments on Weedy Shrubs \_\_\_\_\_

---

**CANOPY (TREE) --NOT APPLICABLE**

**Dominant Canopy Species Cover Classes** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Canopy Cover: \_\_\_\_\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Tree Zonation**--Circle the appropriate category: 1) Abnormal zonation – multiple signs of abnormal distribution and cover; 2) Somewhat abnormal zonation with moderately abnormal distribution and cover; 3) Normal zonation with normal distribution and cover.

Additional Comments on Tree Species \_\_\_\_\_

---

**AQUATIC**

**Dominant Aquatic Species % Cover Categories:** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Aquatic Plant Cover: 10% -15%

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Nymphaea

\_\_\_\_\_

Species/1/2/3/4/5: Nuphar

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Aquatic Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal plant zonation; 2) Somewhat abnormal zonation - some signs of abnormal zonation; 3) Normal aquatic plant zonation

Additional Comments on Aquatic Species:

\_\_\_\_\_

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## PLANT COMMUNITY HEALTH

Does community show unusual signs of stress? No. Visually estimate % of wetland zone exhibiting signs of stress; \_\_\_\_\_

Type of stress observed (e.g., dead or dying plants, discolored foliage, wilted or rolled leaves, premature leaf fall or senescence, etc.): \_\_\_\_\_

Does stress appear moisture related, or is there sign of disease or insect injury? \_\_\_\_\_

### Overall Condition of Plant Community is:

Circle Appropriate Category: **1)** Plants are dead or dying; **2)** poor vigor with obvious decline (foliage discolored, wilted, premature leaf fall) ; **3)** fair vigor, some signs of stress or decline; **4)** medium vigor, some yellow-green foliage, or signs of leaf wilt or leaf curling; **5)** appearance good, foliage green but foliage thin, less than normal growth for the season; **6)** excellent vigor, foliage green in color, normal growth for the season.

Additional Comments on Health \_\_\_\_\_

---

## HYDIC SOILS

Look for signs of subsidence, oxidation or abnormal desiccation and select the category which best describes the current conditions of the wetland soils. This assessment may not be applicable (NA) if site is inundated.

Circle Appropriate Category: **1)** Substantial subsidence/oxidation; **2)** Moderate subsidence/oxidation; **3)** Little or no evidence of subsidence/oxidation

Circle Appropriate Soil Condition: **1)** Inundated, **2)** Saturated, **3)** Moist, **4)** Dry

Additional Comments on Soil \_\_\_\_\_

---

## HYDROLOGY

### Current Water Level Indicators (e.g., mosses, lichens, stains)

Estimated depth of water relative to high water marks or indicators: \_\_\_\_\_; describe type of indicator: \_\_\_\_\_

Circle the Appropriate Category: **1)** None of these indicators are present or indicators are at ground level; **2)** Indicators present; however, indistinct or abnormally low in comparison to the historic normal pool; **3)** Indicators are distinct and at the appropriate level for the season.

Additional Comments on Hydrology \_\_\_\_\_ Water level is high, within 0.5 ft of edge of pasture

---

## WILDLIFE AND LISTED SPECIES

Listed Flora and Fauna Observed (Include activity information for fauna)

### Wetland-Dependent Fauna Observed:

Activity codes (M = mating, F = foraging, FT = flyover/traveling; N = nesting, OT = other)

Observation codes (O = observed, S = sign [scat, tracks, call or other signs of presence])

## GENERAL SITE DESCRIPTION CATEGORIES

---

### Habitat Gradient

Circle Appropriate Category: **1)** full habitat gradient present from aquatic/wetland up gradient to native upland habitat; **2)** native upland habitat is present along 50-75% of perimeter; **3)** native upland habitat is present along 25-50% of perimeter; **4)** native upland habitat is present along less than 25% of perimeter.

Additional Comments on Habitat Gradient Surrounded by pasture

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### Habitat Quality.....in wetland /pond

Circle Appropriate Category: **1)** habitats present are in relatively natural condition in terms of community structure and plant species composition; **2)** habitats are in degraded condition in terms of community structure and plant species composition ; **3)** habitats are in severely degraded condition in terms of community structure and plant species composition.

Additional Comments on Habitat Quality \_\_\_\_\_

---

### Hydrology and Landscape Position

Circle Appropriate Category: **1)** wetland/aquatic system is isolated, with no regular surface water inflow or outflow; **2)** system has surface water inflow or outflow only at high water condition; **3)** system is flow-through with surface water inflow and outflow.

Additional Comments on Landscape Position \_\_\_\_\_

---

### Storm Water Inflows and Outflows

Circle Appropriate Category: **1)** no significant adverse effects to habitat, hydrologic regime, or water quality due to inflow of stormwater system; **2)** habitat conditions are generally good, but adverse effects to habitat, hydrologic regime, or water quality are evident due to inflow stormwater inflows; **3)** habitat conditions are degraded by adverse effects of stormwater inflows.

Additional Comments on Surface Water \_\_\_\_\_

---

### Shoreline Development

Circle Appropriate Category: **1)** less than 10% of shoreline/perimeter is developed; **2)** 10 to 30% of shoreline/perimeter is developed; **3)** 30 to 60% of shoreline/perimeter is developed; **4)** greater than 60% of shoreline/perimeter is developed.

Additional Comments on Shoreline pasture

---

### Land Protection

Circle Appropriate Category: **1)** site and surrounding lands are in public ownership, or land use is limited to conservation/preservation; **2)** some but not all site and surrounding lands are in public ownership, or protected by easement ; **3)** site and surrounding lands are in not public ownership, nor protected by easement.

Additional Comments on Land Protection \_\_\_\_\_

---

### Site Disturbance

Circle Appropriate Category: **1)** less than 10% wetland/water body recent land clearance or disturbance; **2)** 10 to 30% of wetland/water body is affected by recent land disturbance; **3)** 30 to 60% of wetland/water body is affected by recent land disturbance; **4)** greater than 60% of wetland/water body is affected by recent land disturbance.

Circle Appropriate Category: **1)** less than 10% uplands adjacent wetland/water body affected by recent land clearance or disturbance; **2)** 10 to 30% of upland is affected by recent land disturbance; **3)** 30 to 60% of upland is affected by recent land disturbance; **4)** greater than 60% of upland is affected by recent land disturbance.

Additional Comments on Land Disturbance \_\_\_\_\_

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### Drainage Alteration

Are significant drainage features present on the site? No If yes, describe: \_\_\_\_\_

Are there significant drainage features on lands bordering the wetland/water body? No If yes, describe: \_\_\_\_\_

Additional Comments on Drainage \_\_\_\_\_

# Wetland Assessment Field Form--SJRWMD Constraint Wetland Project

PROJECT: Trout Lake SJRWMD SITE ID: #50 COUNTY: Volusia

OTHER LOCATION NOTES: Trout lake, east side, enter @ back end of Albertson's parking lot

PERSONNEL: Bill Dunn and Bob Fewster DATE: 8/10/05 TIME: 9:30a

GPS COORDINATES: Latitude: N 28 54.525 Longitude: W 81 16.019

## PHOTOGRAPHY

Roll: \_\_\_\_\_ Photo Frame #: pan of 4 shots

Description of photo(s): I-4 visible on far side, Albertson's Parking Lot

## WATER LEVEL

Water Depth: high, up to upland edge Staff Gage or Piezometer Level (if present): \_\_\_\_\_

## VEGETATION .....lake w/ emergent and aquatic zones

Major Vegetation Zones Present in Wetland or Water Body: forested, shrub scrub,  marsh,  aquatic,  
pond,  lake, other (list): \_\_\_\_\_

## HERBACEOUS GROUNDCOVER (% cover of OBL and/or FACW species to nearest 10%)

Zone 1: Composition: \_\_\_\_\_ Zone 2: Composition: \_\_\_\_\_

Dominant Groundcover Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: littoral fringe Zone 2: \_\_\_\_\_

Total % Groundcover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Spartina bakerii \_\_\_\_\_

Species/1/2/3/4/5: Maidencane \_\_\_\_\_

Species/1/2/3/4/5: Muhlenbergia sp. \_\_\_\_\_

Species/1/2/3/4/5: Carex lupulina \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Groundcover Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal groundcover zonation; 2) Somewhat abnormal zonation - some signs of abnormal groundcover zonation mainly limited to the wetland edge;  3) Normal groundcover zonation.

Additional Comments on Groundcover \_\_\_\_\_

## NUISANCE/WEEDY GROUNDCOVER

Composition--Circle the appropriate category: 1) > 50% of all groundcover species cover is weeds; 2) > 10% and < 50% of all groundcover species cover is weeds (either dispersed throughout wetland or in dense localized patches);  3) < 10% of all groundcover species cover is weeds or weeds are absent.

Additional Comments on Weedy Species \_\_\_\_\_

## SHRUB

Composition \_\_\_\_\_ % cover OBL and/or FACW shrub species to nearest 10%

Dominant Shrub Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_

Total % Shrub cover: 5% Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Myrica \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Shrub and Small Tree Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal shrub and tree zonation; 2) Somewhat abnormal zonation - some signs of abnormal shrub and tree zonation mainly limited to the wetland edge;  3) Normal shrub and tree zonation.

Additional Comments on Shrubs \_\_\_\_\_

**WEEDY SHRUB**

**Composition** --Circle the appropriate category: 1) > 50% of all shrub species cover is weeds; 2) > 10% and < 50% of all shrub species cover is (either dispersed throughout the wetland or in dense localized patches); 3) < 10% of all shrub species cover is weeds or weeds are absent.

Additional Comments on Weedy Shrubs \_\_\_\_\_

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**CANOPY (TREE).....pines come down to edge, with some live oak**

**Dominant Canopy Species Cover Classes** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1:scattered bands of trees\_\_

Zone 2:\_\_\_\_\_

Total % Canopy Cover: \_\_\_\_\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: \* No forested wetlands\_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Tree Zonation**--Circle the appropriate category: 1) Abnormal zonation – multiple signs of abnormal distribution and cover; 2) Somewhat abnormal zonation with moderately abnormal distribution and cover; 3) Normal zonation with normal distribution and cover.

**Additional Comments on Tree Species**\_\_some pines dying back, see photo's, live oak also\_\_\_\_\_

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**AQUATIC.....patches of water lily**

**Dominant Aquatic Species % Cover Categories:** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1:\_\_\_\_\_

Zone 2:\_\_\_\_\_

Total % Aquatic Plant Cover: 5%\_\_\_\_\_

Total % Cover\_\_\_\_\_

Species/1/2/3/4/5: Nymphaea\_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Aquatic Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal plant zonation; 2) Somewhat abnormal zonation - some signs of abnormal zonation; 3) Normal aquatic plant zonation

**Additional Comments on Aquatic Species:**

\_\_\_\_\_

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## PLANT COMMUNITY HEALTH

Does community show unusual signs of stress? No. Visually estimate % of wetland zone exhibiting signs of stress; \_\_\_\_\_

Type of stress observed (e.g., dead or dying plants, discolored foliage, wilted or rolled leaves, premature leaf fall or senescence, etc.): \_\_\_\_\_

Does stress appear moisture related, or is there sign of disease or insect injury? \_\_\_\_\_

**Overall Condition of Plant Community is:**

Circle Appropriate Category: **1)** Plants are dead or dying; **2)** poor vigor with obvious decline (foliage discolored, wilted, premature leaf fall) ; **3)** fair vigor, some signs of stress or decline; **4)** medium vigor, some yellow-green foliage, or signs of leaf wilt or leaf curling; **5)** appearance good, foliage green but foliage thin, less than normal growth for the season; **6)** excellent vigor, foliage green in color, normal growth for the season.

**Additional Comments on Health** encroaching wax myrtle and pines on edge are stressed

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## HYDIC SOILS

Look for signs of subsidence, oxidation or abnormal desiccation and select the category which best describes the current conditions of the wetland soils. This assessment may not be applicable (NA) if site is inundated.

Circle Appropriate Category: **1)** Substantial subsidence/oxidation; **2)** Moderate subsidence/oxidation; **3)** Little or no evidence of subsidence/oxidation

Circle Appropriate Soil Condition: **1)** Inundated, **2)** Saturated, **3)** Moist, **4)** Dry

**Additional Comments on Soil** \_\_\_\_\_

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## HYDROLOGY

**Current Water Level Indicators** (e.g., mosses, lichens, stains)

Estimated depth of water relative to high water marks or indicators: up to pine edge; describe type of indicator: \_\_\_\_\_

Circle the Appropriate Category: **1)** None of these indicators are present or indicators are at ground level; **2)** Indicators present; however, indistinct or abnormally low in comparison to the historic normal pool; **3)** Indicators are distinct and at the appropriate level for the season.

**Additional Comments on Hydrology** w/in 0.0' to 0.5'

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## WILDLIFE AND LISTED SPECIES

**Listed Flora and Fauna Observed** (Include activity information for fauna)

**Wetland-Dependent Fauna Observed:**

Activity codes (M = mating, F = foraging, FT = flyover/traveling; N = nesting, OT = other)

Observation codes (O = observed, S = sign [scat, tracks, call or other signs of presence])



## GENERAL SITE DESCRIPTION CATEGORIES

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### Habitat Gradient

Circle Appropriate Category: **1)** full habitat gradient present from aquatic/wetland up gradient to native upland habitat; **2)** native upland habitat is present along 50-75% of perimeter; **3)** native upland habitat is present along 25-50% of perimeter; **4)** native upland habitat is present along less than 25% of perimeter.

**Additional Comments on Habitat Gradient** some pine flatwood edge (narrow) in place

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### Habitat Quality

Circle Appropriate Category: **1)** habitats present are in relatively natural condition in terms of community structure and plant species composition; **2)** habitats are in degraded condition in terms of community structure and plant species composition ; **3)** habitats are in severely degraded condition in terms of community structure and plant species composition.

**Additional Comments on Habitat Quality** stress shown on encroaching species

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### Hydrology and Landscape Position

Circle Appropriate Category: **1)** wetland/aquatic system is isolated, with no regular surface water inflow or outflow; **2)** system has surface water inflow or outflow only at high water condition; **3)** system is flow-through with surface water inflow and outflow.

**Additional Comments on Landscape Position:** \_\_\_\_\_

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### Storm Water Inflows and Outflows

Circle Appropriate Category: **1)** no significant adverse effects to habitat, hydrologic regime, or water quality due to inflow of stormwater system; **2)** habitat conditions are generally good, but adverse effects to habitat, hydrologic regime, or water quality are evident due to inflow stormwater inflows; **3)** ) habitat conditions are degraded by adverse effects of stormwater inflows.

**Additional Comments on Surface Water** \_\_\_\_\_

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### Shoreline Development

= 60%

Circle Appropriate Category: **1)** less than 10% of shoreline/perimeter is developed; **2)** 10 to 30% of shoreline/perimeter is developed; **3)** 30 to 60% of shoreline/perimeter is developed; **4)** greater than 60% of shoreline/perimeter is developed.

**Additional Comments on Shoreline** I-4 on east, major road (Graves) on North

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### Land Protection

Circle Appropriate Category: **1)** site and surrounding lands are in public ownership, or land use is limited to conservation/preservation; **2)** some but not all site and surrounding lands are in public ownership, or protected by easement ; **3)** site and surrounding lands are in not public ownership, nor protected by easement.

**Additional Comments on Land Protection** \_\_\_\_\_

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### Site Disturbance

Circle Appropriate Category: **1)** less than 10% wetland/water body recent land clearance or disturbance; **2)** 10 to 30% of wetland/water body is affected by recent land disturbance; **3)** 30 to 60% of wetland/water body is affected by recent land disturbance; **4)** greater than 60% of wetland/water body is affected by recent land disturbance.

Circle Appropriate Category: **1)** less than 10% uplands adjacent wetland/water body affected by recent land clearance or disturbance; **2)** 10 to 30% of upland is affected by recent land disturbance; **3)** 30 to 60% of upland is affected by recent land disturbance; **4)** greater than 60% of upland is affected by recent land disturbance.

**Additional Comments on Land Disturbance** some development ongoing

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### Drainage Alteration

Are significant drainage features present on the site? No If yes, describe: \_\_\_\_\_

Are there significant drainage features on lands bordering the wetland/water body? No If yes, describe: none observed, check aerial photo's \_\_\_\_\_

**Additional Comments on Drainage** \_\_\_\_\_

# Wetland Assessment Field Form--SJRWMD Constraint Wetland Project

PROJECT: Lake Gleason SJRWMD SITE ID: #53 COUNTY: Volusia

OTHER LOCATION NOTES: \_\_\_\_\_

PERSONNEL : Bill Dunn and Bob Fewster DATE: 8/10/05 TIME: 10:30

GPS COORDINATES: Latitude : N 28 53.457 Longitude: W 81 16.020

## PHOTOGRAPHY

Roll: \_\_\_\_\_ Photo Frame #: pan of 4 from the boat ramp

Description of photo(s): park on the SW side, mostly open water (see photos)

## WATER LEVEL:

Water Depth: w/in 0.5' of water stains on fence post @ boat ramp Staff Gage or Piezometer Level (if present): \_\_\_\_\_

## VEGETATION.....lake with emergent border

Major Vegetation Zones Present in Wetland or Water Body: \_\_\_\_\_ forested, \_\_\_\_\_ shrub scrub, X marsh, X aquatic, \_\_\_\_\_ pond, X lake, \_\_\_\_\_ other (list): \_\_\_\_\_

## HERBACEOUS GROUNDCOVER (% cover of OBL and/or FACW species to nearest 10%)

Zone 1: Composition: \_\_\_\_\_ Zone 2: Composition: \_\_\_\_\_ emergent zone edge of lake

Dominant Groundcover Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_  
Total % Groundcover: 90% in littoral zone Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Panicum sp \_\_\_\_\_

Species/1/2/3/4/5: Torpedo grass \_\_\_\_\_

Species/1/2/3/4/5: Maidencane \_\_\_\_\_

Species/1/2/3/4/5: Pickered weed \_\_\_\_\_

Species/1/2/3/4/5: Cattail \_\_\_\_\_

Groundcover Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal groundcover zonation; 2) Somewhat abnormal zonation - some signs of abnormal groundcover zonation mainly limited to the wetland edge; 3) Normal groundcover zonation.

Additional Comments on Groundcover \_\_\_\_\_

## NUISANCE/WEEDY GROUNDCOVER

Composition--Circle the appropriate category: 1) > 50% of all groundcover species cover is weeds; 2) > 10% and < 50% of all groundcover species cover is weeds (either dispersed throughout wetland or in dense localized patches); 3) < 10% of all groundcover species cover is weeds or weeds are absent.

Additional Comments on Weedy Species \_\_\_\_\_

## SHRUB....sparse and scattered shrub zone up of emergent

Composition \_\_\_\_\_ % cover OBL and/or FACW shrub species to nearest 10%

Dominant Shrub Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_  
Total % Shrub cover: 25-50% Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Button Bush scattered, isolated small stands \_\_\_\_\_

Species/1/2/3/4/5: Ludwig peruviana \_\_\_\_\_

Species/1/2/3/4/5: Willow \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Shrub and Small Tree Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal shrub and tree zonation; 2) Somewhat abnormal zonation - some signs of abnormal shrub and tree zonation mainly limited to the wetland edge; 3) Normal shrub and tree zonation.

Additional Comments on Shrubs \_\_\_\_\_

**WEEDY SHRUB**

**Composition** --Circle the appropriate category: 1) > 50% of all shrub species cover is weeds; 2) > 10% and < 50% of all shrub species cover is (either dispersed throughout the wetland or in dense localized patches); 3) < 10% of all shrub species cover is weeds or weeds are absent.

Additional Comments on Weedy Shrubs \_\_\_\_\_

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**CANOPY (TREE)...slash pine flatwoods edge in a few places**

**Dominant Canopy Species Cover Classes** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Canopy Cover: \_\_\_\_\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Tree Zonation**--Circle the appropriate category: 1) Abnormal zonation – multiple signs of abnormal distribution and cover; 2) Somewhat abnormal zonation with moderately abnormal distribution and cover; 3) Normal zonation with normal distribution and cover.

**Additional Comments on Tree Species** no forested wetland border observed

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**AQUATIC.....floating**

**Dominant Aquatic Species % Cover Categories:** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Aquatic Plant Cover: \_\_\_\_\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Nymphaea \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Aquatic Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal plant zonation; 2) Somewhat abnormal zonation - some signs of abnormal zonation; 3) Normal aquatic plant zonation

**Additional Comments on Aquatic Species:** Not as many dead pines around this lake, as compared to the last 2 visited today...Three Island and Trout lakes

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## PLANT COMMUNITY HEALTH

Does community show unusual signs of stress? No. Visually estimate % of wetland zone exhibiting signs of stress; \_\_\_\_\_

Type of stress observed (e.g., dead or dying plants, discolored foliage, wilted or rolled leaves, premature leaf fall or senescence, etc.): \_\_\_\_\_

Does stress appear moisture related, or is there sign of disease or insect injury? \_\_\_\_\_

### Overall Condition of Plant Community is:

Circle Appropriate Category: **1)** Plants are dead or dying; **2)** poor vigor with obvious decline (foliage discolored, wilted, premature leaf fall) ; **3)** fair vigor, some signs of stress or decline; **4)** medium vigor, some yellow-green foliage, or signs of leaf wilt or leaf curling; **5)** appearance good, foliage green but foliage thin, less than normal growth for the season; **6)** excellent vigor, foliage green in color, normal growth for the season.

Additional Comments on Health: no dead pines observed

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## HYDIC SOILS

Look for signs of subsidence, oxidation or abnormal desiccation and select the category which best describes the current conditions of the wetland soils. This assessment may not be applicable (NA) if site is inundated.

Circle Appropriate Category: **1)** Substantial subsidence/oxidation; **2)** Moderate subsidence/oxidation; **3)** Little or no evidence of subsidence/oxidation

Circle Appropriate Soil Condition: **1)** Inundated, **2)** Saturated, **3)** Moist, **4)** Dry

Additional Comments on Soil \_\_\_\_\_

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## HYDROLOGY

**Current Water Level Indicators** (e.g., mosses, lichens, stains)

Estimated depth of water relative to high water marks or indicators: \_\_\_\_\_; describe type of indicator: \_\_\_\_\_

Circle the Appropriate Category: **1)** None of these indicators are present or indicators are at ground level; **2)** Indicators present; however, indistinct or abnormally low in comparison to the historic normal pool; **3)** Indicators are distinct and at the appropriate level for the season.

Additional Comments on Hydrology water marks on fence post @ boat ramp w/ 0.5' of HW marks

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## WILDLIFE AND LISTED SPECIES

**Listed Flora and Fauna Observed** (Include activity information for fauna)

**Wetland-Dependent Fauna Observed:**

Activity codes (M = mating, F = foraging, FT = flyover/traveling; N = nesting, OT = other)

Observation codes (O = observed, S = sign [scat, tracks, call or other signs of presence])

## GENERAL SITE DESCRIPTION CATEGORIES

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### Habitat Gradient

Circle Appropriate Category: **1)** full habitat gradient present from aquatic/wetland up gradient to native upland habitat; **2)** native upland habitat is present along 50-75% of perimeter; **3)** native upland habitat is present along 25-50% of perimeter; **4)** native upland habitat is present along less than 25% of perimeter.

Additional Comments on Habitat Gradient mostly developed edge

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### Habitat Quality

Circle Appropriate Category: **1)** habitats present are in relatively natural condition in terms of community structure and plant species composition; **2)** habitats are in degraded condition in terms of community structure and plant species composition ; **3)** habitats are in severely degraded condition in terms of community structure and plant species composition.

Additional Comments on Habitat Quality \_\_\_\_\_

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### Hydrology and Landscape Position

Circle Appropriate Category: **1)** wetland/aquatic system is isolated, with no regular surface water inflow or outflow; **2)** system has surface water inflow or outflow only at high water condition; **3)** system is flow-through with surface water inflow and outflow.

Additional Comments on Landscape Position: check

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### Storm Water Inflows and Outflows

Circle Appropriate Category: **1)** no significant adverse effects to habitat, hydrologic regime, or water quality due to inflow of stormwater system; **2)** habitat conditions are generally good, but adverse effects to habitat, hydrologic regime, or water quality are evident due to inflow stormwater inflows; **3)** ) habitat conditions are degraded by adverse effects of stormwater inflows.

Additional Comments on Surface Water \_\_\_\_\_

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### Shoreline Development

Circle Appropriate Category: **1)** less than 10% of shoreline/perimeter is developed; **2)** 10 to 30% of shoreline/perimeter is developed; **3)** 30 to 60% of shoreline/perimeter is developed; **4)** greater than 60% of shoreline/perimeter is developed.

Additional Comments on Shoreline: \_\_\_\_\_

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### Land Protection

Circle Appropriate Category: **1)** site and surrounding lands are in public ownership, or land use is limited to conservation/preservation; **2)** some but not all site and surrounding lands are in public ownership, or protected by easement ; **3)** site and surrounding lands are in not public ownership, nor protected by easement.

Additional Comments on Land Protection park on SW side

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### Site Disturbance

Circle Appropriate Category: **1)** less than 10% wetland/water body recent land clearance or disturbance; **2)** 10 to 30% of wetland/water body is affected by recent land disturbance; **3)** 30 to 60% of wetland/water body is affected by recent land disturbance; **4)** greater than 60% of wetland/water body is affected by recent land disturbance.

Circle Appropriate Category: **1)** less than 10% uplands adjacent wetland/water body affected by recent land clearance or disturbance; **2)** 10 to 30% of upland is affected by recent land disturbance; **3)** 30 to 60% of upland is affected by recent land disturbance; **4)** greater than 60% of upland is affected by recent land disturbance.

Additional Comments on Land Disturbance no observed disturbance (recent) in lake or on the edge

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### Drainage Alteration

Are significant drainage features present on the site? No If yes, describe: \_\_\_\_\_

Are there significant drainage features on lands bordering the wetland/water body? No If yes, describe: \_\_\_\_\_  
photo's \_\_\_\_\_

Additional Comments on Drainage closed system

# Wetland Assessment Field Form--SJRWMD Constraint Wetland Project

PROJECT: Dead River Marsh SJRWMD SITE ID: #65 COUNTY: Lake

OTHER LOCATION NOTES: at boat ramp in Lake Griffin State Park

PERSONNEL: Bill Dunn and Bob Fewster DATE: 8/25/05 TIME: 9:20

GPS COORDINATES: Latitude: N 28 51.461 Longitude: W 81 54.003

## PHOTOGRAPHY

Roll: \_\_\_\_\_ Photo Frame #: 7 photos

Description of photo(s): large mosaic of forested, shrub and marsh

## WATER LEVEL

Water Depth: \_\_\_\_\_ Staff Gage or Piezometer Level (if present): 58.9 ft

## VEGETATION

Major Vegetation Zones Present in Wetland or Water Body:  forested,  shrub scrub,  marsh, \_\_\_\_\_ aquatic, \_\_\_\_\_ pond, \_\_\_\_\_ lake, \_\_\_\_\_ other (list): \* mostly forested & shrub at this location

## HERBACEOUS GROUNDCOVER (% cover of OBL and/or FACW species to nearest 10%)

Zone 1: Composition: \_\_\_\_\_ Zone 2: Composition: \_\_\_\_\_

Dominant Groundcover Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: some \_\_\_\_\_ Zone 2: \_\_\_\_\_

Total % Groundcover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Sagittaria \_\_\_\_\_

Species/1/2/3/4/5: Maidencane \_\_\_\_\_

Species/1/2/3/4/5: Sawgrass \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Groundcover Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal groundcover zonation; 2) Somewhat abnormal zonation - some signs of abnormal groundcover zonation mainly limited to the wetland edge;  Normal groundcover zonation.

Additional Comments on Groundcover \_\_\_\_\_

## NUISANCE/WEEDY GROUNDCOVER

Composition--Circle the appropriate category: 1) > 50% of all groundcover species cover is weeds; 2) > 10% and < 50% of all groundcover species cover is weeds (either dispersed throughout wetland or in dense localized patches);  < 10% of all groundcover species cover is weeds or weeds are absent.

Additional Comments on Weedy Species \_\_\_\_\_

## SHRUB.....shrub swamp i

Composition \_\_\_\_\_ % cover OBL and/or FACW shrub species to nearest 10%

Dominant Shrub Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_

Total % Shrub cover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Willow \_\_\_\_\_

Species/1/2/3/4/5: Ludwigia peruviana \_\_\_\_\_

Species/1/2/3/4/5: Cephalanthus occidentalis \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Shrub and Small Tree Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal shrub and tree zonation; 2) Somewhat abnormal zonation - some signs of abnormal shrub and tree zonation mainly limited to the wetland edge;  Normal shrub and tree zonation. Most of the Wetland here is successional shrub swamp

**Additional Comments on Shrubs** \_\_\_\_\_ Most of the wetland here is successional willow/maple \_\_\_\_\_

**WEEDY SHRUB**

**Composition** --Circle the appropriate category: 1) > 50% of all shrub species cover is weeds; 2) > 10% and < 50% of all shrub species cover is (either dispersed throughout the wetland or in dense localized patches); 3) < 10% of all shrub species cover is weeds or weeds are absent.

**Additional Comments on Weedy Shrubs** \_\_\_\_\_

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**CANOPY (TREE)**

**Dominant Canopy Species Cover Classes** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Canopy Cover: 50 – 90%\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Taxodium distichum \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: Acer rubrum \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: Ilex cassine \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: Nyssa biflora \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: Willow \_\_\_\_\_

\_\_\_\_\_

**Tree Zonation**--Circle the appropriate category: 1) Abnormal zonation – multiple signs of abnormal distribution and cover; 2) Somewhat abnormal zonation with moderately abnormal distribution and cover; 3) **Normal zonation with normal distribution and cover.**

**Additional Comments on Tree Species** \_\_\_\_\_

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**AQUATIC.....CANAL CHANNEL**

**Dominant Aquatic Species % Cover Categories:** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Aquatic Plant Cover: 100% in canal

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Nymphaea <1% \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: 100% Salvinia \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Aquatic Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal plant zonation; 2) Somewhat abnormal zonation - some signs of abnormal zonation; 3) **Normal aquatic plant zonation**

**Additional Comments on Aquatic Species:** \_\_\_\_\_

Mature forest and successional forest mixed in with areas of emergent marsh

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## PLANT COMMUNITY HEALTH

Does community show unusual signs of stress? No. Visually estimate % of wetland zone exhibiting signs of stress; \_\_\_\_\_

Type of stress observed (e.g., dead or dying plants, discolored foliage, wilted or rolled leaves, premature leaf fall or senescence, etc.): \_\_\_\_\_

Does stress appear moisture related, or is there sign of disease or insect injury? \_\_\_\_\_

### Overall Condition of Plant Community is:

Circle Appropriate Category: **1)** Plants are dead or dying; **2)** poor vigor with obvious decline (foliage discolored, wilted, premature leaf fall) ; **3)** fair vigor, some signs of stress or decline; **4)** medium vigor, some yellow-green foliage, or signs of leaf wilt or leaf curling; **5)** appearance good, foliage green but foliage thin, less than normal growth for the season; **6)** excellent vigor, foliage green in color, normal growth for the season.

Additional Comments on Health \_\_\_\_\_

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## HYDIC SOILS

Look for signs of subsidence, oxidation or abnormal desiccation and select the category which best describes the current conditions of the wetland soils. This assessment may not be applicable (NA) if site is inundated.

Circle Appropriate Category: **1)** Substantial subsidence/oxidation; **2)** Moderate subsidence/oxidation; **3)** Little or no evidence of subsidence/oxidation

Circle Appropriate Soil Condition: **1)** Inundated, **2)** Saturated, **3)** Moist, **4)** Dry

Additional Comments on Soil \_\_\_\_\_

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## HYDROLOGY

**Current Water Level Indicators** (e.g., mosses, lichens, stains)

Estimated depth of water relative to high water marks or indicators: \_\_\_\_\_; describe type of indicator: \_\_\_\_\_

Circle the Appropriate Category: **1)** None of these indicators are present or indicators are at ground level; **2)** Indicators present; however, indistinct or abnormally low in comparison to the historic normal pool; **3)** Indicators are distinct and at the appropriate level for the season.

Additional Comments on Hydrology \_\_\_\_\_ water marks for pilings @ staff gage are @ + 0.5

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## WILDLIFE AND LISTED SPECIES

**Listed Flora and Fauna Observed** (Include activity information for fauna)

**Wetland-Dependent Fauna Observed:**

Activity codes (M = mating, F = foraging, FT = flyover/traveling; N = nesting, OT = other)

Observation codes (O = observed, S = sign [scat, tracks, call or other signs of presence])



## GENERAL SITE DESCRIPTION CATEGORIES

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### Habitat Gradient

Circle Appropriate Category: **1)** full habitat gradient present from aquatic/wetland up gradient to native upland habitat; **2)** native upland habitat is present along 50-75% of perimeter; **3)** native upland habitat is present along 25-50% of perimeter; **4)** native upland habitat is present along less than 25% of perimeter.

Additional Comments on Habitat Gradient good in the park; live oak & pine uplands

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### Habitat Quality

Circle Appropriate Category: **1)** habitats present are in relatively natural condition in terms of community structure and plant species composition; **2)** habitats are in degraded condition in terms of community structure and plant species composition ; **3)** habitats are in severely degraded condition in terms of community structure and plant species composition.

Additional Comments on Habitat Quality \_\_\_\_\_

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### Hydrology and Landscape Position

Circle Appropriate Category: **1)** wetland/aquatic system is isolated, with no regular surface water inflow or outflow; **2)** system has surface water inflow or outflow only at high water condition; **3)** system is flow-through with surface water inflow and outflow.

Additional Comments on Landscape Position Part of Lake Griffin

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### Storm Water Inflows and Outflows

Circle Appropriate Category: **1)** no significant adverse effects to habitat, hydrologic regime, or water quality due to inflow of stormwater system; **2)** habitat conditions are generally good, but adverse effects to habitat, hydrologic regime, or water quality are evident due to inflow stormwater inflows; **3)** ) habitat conditions are degraded by adverse effects of stormwater inflows.

Additional Comments on Surface Water \_\_\_\_\_

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### Shoreline Development = 50%

Circle Appropriate Category: **1)** less than 10% of shoreline/perimeter is developed; **2)** 10 to 30% of shoreline/perimeter is developed; **3)** 30 to 60% of shoreline/perimeter is developed; **4)** greater than 60% of shoreline/perimeter is developed.

Additional Comments on Shoreline \_\_\_\_\_

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### Land Protection

Circle Appropriate Category: **1)** site and surrounding lands are in public ownership, or land use is limited to conservation/preservation; **2)** some but not all site and surrounding lands are in public ownership, or protected by easement ; **3)** site and surrounding lands are in not public ownership, nor protected by easement.

Additional Comments on Land Protection in park

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### Site Disturbance

Circle Appropriate Category: **1)** less than 10% wetland/water body recent land clearance or disturbance; **2)** 10 to 30% of wetland/water body is affected by recent land disturbance; **3)** 30 to 60% of wetland/water body is affected by recent land disturbance; **4)** greater than 60% of wetland/water body is affected by recent land disturbance.

Circle Appropriate Category: **1)** less than 10% uplands adjacent wetland/water body affected by recent land clearance or disturbance; **2)** 10 to 30% of upland is affected by recent land disturbance; **3)** 30 to 60% of upland is affected by recent land disturbance; **4)** greater than 60% of upland is affected by recent land disturbance.

Additional Comments on Land

Disturbance \_\_\_\_\_ 0% \_\_\_\_\_

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### Drainage Alteration

Are significant drainage features present on the site? No If yes, describe: \_\_\_\_\_

Are there significant drainage features on lands bordering the wetland/water body? No If yes, describe: \_\_\_\_\_

Additional Comments on Drainage \_\_\_\_\_

# Wetland Assessment Field Form--SJRWMD Constraint Wetland Project

PROJECT: Lake Sylvan SJRWMD SITE ID: #75 COUNTY: Seminole

## OTHER LOCATION NOTES:

PERSONNEL : Bill Dunn and Bob Fewster DATE: 8/11/05 TIME: 3:45

GPS COORDINATES: Latitude : N 28 48.241 Longitude: W 81 23.001

## PHOTOGRAPHY

Roll: \_\_\_\_\_ Photo Frame #s: pan of 6 shots from board walk lake near flood stage, board walk

Description of photo(s):

## WATER LEVEL—lake @ flood stage

Water Depth: \_\_\_\_\_ Staff Gage or Piezometer Level (if present): \_\_\_\_\_

## VEGETATION

Major Vegetation Zones Present in Wetland or Water Body:  forested,  shrub scrub,  marsh,  aquatic,  pond,  lake, other (list): wetlands border parts of lake

## HERBACEOUS GROUNDCOVER (% cover of OBL and/or FACW species to nearest 10%)

Zone 1: Composition: \_\_\_\_\_ Zone 2: Composition: \_\_\_\_\_

Dominant Groundcover Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: 80+% cover Zone 2: \_\_\_\_\_

Total % Groundcover: Littoral fringe Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Maidencane \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Groundcover Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal groundcover zonation; 2) Somewhat abnormal zonation - some signs of abnormal groundcover zonation mainly limited to the wetland edge;  Normal groundcover zonation.

Additional Comments on Groundcover \_\_\_\_\_

## NUISANCE/WEEDY GROUNDCOVER

Composition--Circle the appropriate category: 1) > 50% of all groundcover species cover is weeds; 2) > 10% and < 50% of all groundcover species cover is weeds (either dispersed throughout wetland or in dense localized patches);  < 10% of all groundcover species cover is weeds or weeds are absent.

Additional Comments on Weedy Species \_\_\_\_\_

## SHRUB

Composition \_\_\_\_\_ % cover OBL and/or FACW shrub species to nearest 10%

Dominant Shrub Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_

Total % Shrub cover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: button bush scattered \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Shrub and Small Tree Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal shrub and tree zonation; 2) Somewhat abnormal zonation - some signs of abnormal shrub and tree zonation mainly limited to the wetland edge;  Normal shrub and tree zonation.

Additional Comments on Shrubs \_\_\_\_\_

**WEEDY SHRUB**

**Composition** --Circle the appropriate category: 1) > 50% of all shrub species cover is weeds; 2) > 10% and < 50% of all shrub species cover is (either dispersed throughout the wetland or in dense localized patches); 3) < 10% of all shrub species cover is weeds or weeds are absent.

Additional Comments on Weedy Shrubs \_\_\_\_\_

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**CANOPY (TREE)—forested border present around 50% of lake**

**Dominant Canopy Species Cover Classes** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Canopy Cover: \_\_\_\_\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Red maple \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: Bald cypress \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: Water oak \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Tree Zonation**--Circle the appropriate category: 1) Abnormal zonation – multiple signs of abnormal distribution and cover; 2) Somewhat abnormal zonation with moderately abnormal distribution and cover; 3) Normal zonation with normal distribution and cover.

Additional Comments on Tree Species \_\_\_\_\_

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**AQUATIC**

**Dominant Aquatic Species % Cover Categories:** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Aquatic Plant \_\_\_\_\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Aquatic Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal plant zonation; 2) Somewhat abnormal zonation - some signs of abnormal zonation; 3) Normal aquatic plant zonation

Additional Comments on Aquatic Species: large wetland area on east side and west (park), less on North & South....See aerial photo \_\_\_\_\_

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## PLANT COMMUNITY HEALTH

Does community show unusual signs of stress? No. Visually estimate % of wetland zone exhibiting signs of stress; \_\_\_\_\_

Type of stress observed (e.g., dead or dying plants, discolored foliage, wilted or rolled leaves, premature leaf fall or senescence, etc.): \_\_\_\_\_

Does stress appear moisture related, or is there sign of disease or insect injury? \_\_\_\_\_

**Overall Condition of Plant Community is:**

Circle Appropriate Category: **1)** Plants are dead or dying; **2)** poor vigor with obvious decline (foliage discolored, wilted, premature leaf fall) ; **3)** fair vigor, some signs of stress or decline; **4)** medium vigor, some yellow-green foliage, or signs of leaf wilt or leaf curling; **5)** appearance good, foliage green but foliage thin, less than normal growth for the season; **6)** excellent vigor, foliage green in color, normal growth for the season.

**Additional Comments on Health** \_\_\_\_\_

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## HYDIC SOILS

Look for signs of subsidence, oxidation or abnormal desiccation and select the category which best describes the current conditions of the wetland soils. This assessment may not be applicable (NA) if site is inundated.

Circle Appropriate Category: **1)** Substantial subsidence/oxidation; **2)** Moderate subsidence/oxidation; **3)** Little or no evidence of subsidence/oxidation

Circle Appropriate Soil Condition: **1)** Inundated, **2)** Saturated, **3)** Moist, **4)** Dry

**Additional Comments on Soil** \_\_\_\_\_

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## HYDROLOGY

**Current Water Level Indicators** (e.g., mosses, lichens, stains)

Estimated depth of water relative to high water marks or indicators: \_\_\_\_\_; describe type of indicator: \_\_\_\_\_

Circle the Appropriate Category: **1)** None of these indicators are present or indicators are at ground level; **2)** Indicators present; however, indistinct or abnormally low in comparison to the historic normal pool; **3)** Indicators are distinct and at the appropriate level for the season.

**Additional Comments on Hydrology** lake @ flood stage \_\_\_\_\_

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## WILDLIFE AND LISTED SPECIES

**Listed Flora and Fauna Observed** (Include activity information for fauna)

**Wetland-Dependent Fauna Observed:**

Activity codes (M = mating, F = foraging, FT = flyover/traveling; N = nesting, OT = other)

Observation codes (O = observed, S = sign [scat, tracks, call or other signs of presence])

# GENERAL SITE DESCRIPTION CATEGORIES

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## Habitat Gradient

Circle Appropriate Category: **1)** full habitat gradient present from aquatic/wetland up gradient to native upland habitat; **2)** native upland habitat is present along 50-75% of perimeter; **3)** native upland habitat is present along 25-50% of perimeter; **4)** native upland habitat is present along less than 25% of perimeter.

Additional Comments on Habitat Gradient \_\_\_\_\_

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## Habitat Quality

Circle Appropriate Category: **1)** habitats present are in relatively natural condition in terms of community structure and plant species composition; **2)** habitats are in degraded condition in terms of community structure and plant species composition ; **3)** habitats are in severely degraded condition in terms of community structure and plant species composition.

Additional Comments on Habitat Quality except logging in flatwoods on North \_\_\_\_\_

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## Hydrology and Landscape Position

Circle Appropriate Category: **1)** wetland/aquatic system is isolated, with no regular surface water inflow or outflow; **2)** system has surface water inflow or outflow only at high water condition; **3)** system is flow-through with surface water inflow and outflow.

Additional Comments on Landscape Position: check; BF says that Sonny Hall says outflow rare \_\_\_\_\_

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## Storm Water Inflows and Outflows.....1.5

Circle Appropriate Category: **1)** no significant adverse effects to habitat, hydrologic regime, or water quality due to inflow of stormwater system; **2)** habitat conditions are generally good, but adverse effects to habitat, hydrologic regime, or water quality are evident due to inflow stormwater inflows; **3)** ) habitat conditions are degraded by adverse effects of stormwater inflows.

Additional Comments on Surface Water \_\_\_\_\_

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## Shoreline Development

Circle Appropriate Category: **1)** less than 10% of shoreline/perimeter is developed; **2)** 10 to 30% of shoreline/perimeter is developed; **3)** 30 to 60% of shoreline/perimeter is developed; **4)** greater than 60% of shoreline/perimeter is developed.

Additional Comments on Shoreline 50% \_\_\_\_\_

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## Land Protection

Circle Appropriate Category: **1)** site and surrounding lands are in public ownership, or land use is limited to conservation/preservation; **2)** some but not all site and surrounding lands are in public ownership, or protected by easement ; **3)** site and surrounding lands are in not public ownership, nor protected by easement.

Additional Comments on Land Protection \_\_\_\_\_

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## Site Disturbance

Circle Appropriate Category: **1)** less than 10% wetland/water body recent land clearance or disturbance; **2)** 10 to 30% of wetland/water body is affected by recent land disturbance; **3)** 30 to 60% of wetland/water body is affected by recent land disturbance; **4)** greater than 60% of wetland/water body is affected by recent land disturbance.

Circle Appropriate Category: **1)** less than 10% uplands adjacent wetland/water body affected by recent land clearance or disturbance; **2)** 10 to 30% of upland is affected by recent land disturbance; **3)** 30 to 60% of upland is affected by recent land disturbance; **4)** greater than 60% of upland is affected by recent land disturbance.

Additional Comments on Land Disturbance: \_\_\_\_\_

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## Drainage Alteration

Are significant drainage features present on the site? No If yes, describe: \_\_\_\_\_

Are there significant drainage features on lands bordering the wetland/water body? No If yes, describe: \_\_\_\_\_

Additional Comments on Drainage \_\_\_\_\_

# Wetland Assessment Field Form--SJRWMD Constraint Wetland Project

PROJECT: Wetland in New Upsala SJRWMD SITE ID: #78 COUNTY: Seminole

OTHER LOCATION NOTES: Wetland disturbed, Brush Creek Dr.

PERSONNEL: Bill Dunn and Bob Fewster DATE: 8/11/05 TIME: 14:45

GPS COORDINATES: Latitude: N 28 47.687 Longitude: W 81 19.329

## PHOTOGRAPHY

Roll: \_\_\_\_\_ Photo Frame #s: 8 photos

Description of photo(s): floating mats & open water

## WATER LEVEL

Water Depth: water level high w/ 0.5 of HW Staff Gage or Piezometer Level (if present): \_\_\_\_\_

## VEGETATION--marsh & open water

Major Vegetation Zones Present in Wetland or Water Body: forested,  shrub scrub,  marsh,  aquatic,  
pond, lake, other (list): \_\_\_\_\_

## HERBACEOUS GROUNDCOVER (% cover of OBL and/or FACW species to nearest 10%)

Zone 1: Composition: \_\_\_\_\_ Zone 2: Composition: \_\_\_\_\_

Dominant Groundcover Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_

Total % Groundcover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Limnobium spongia \_\_\_\_\_

Species/1/2/3/4/5: Hydrocotyle \_\_\_\_\_

Species/1/2/3/4/5: Pickerelweed \_\_\_\_\_

Species/1/2/3/4/5: Nymphaea \_\_\_\_\_

Species/1/2/3/4/5: Salvinia \_\_\_\_\_

Groundcover Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal groundcover zonation; 2) Somewhat abnormal zonation - some signs of abnormal groundcover zonation mainly limited to the wetland edge; 3) Normal groundcover zonation.

Additional Comments on Groundcover \_\_\_\_\_

## NUISANCE/WEEDY GROUNDCOVER

Composition--Circle the appropriate category: 1) > 50% of all groundcover species cover is weeds; 2) > 10% and < 50% of all groundcover species cover is weeds (either dispersed throughout wetland or in dense localized patches); 3) < 10% of all groundcover species cover is weeds or weeds are absent.

Additional Comments on Weedy Species \_\_\_\_\_

## SHRUB--<1%

Composition \_\_\_\_\_ % cover OBL and/or FACW shrub species to nearest 10%

Dominant Shrub Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_

Total % Shrub cover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Shrub and Small Tree Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal shrub and tree zonation; 2) Somewhat abnormal zonation - some signs of abnormal shrub and tree zonation mainly limited to the wetland edge; 3) Normal shrub and tree zonation.

Additional Comments on Shrubs \_\_\_\_\_

**WEEDY SHRUB**

**Composition** --Circle the appropriate category: 1) > 50% of all shrub species cover is weeds; 2) > 10% and < 50% of all shrub species cover is (either dispersed throughout the wetland or in dense localized patches); 3) < 10% of all shrub species cover is weeds or weeds are absent.

Additional Comments on Weedy Shrubs \_\_\_\_\_

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**CANOPY (TREE).....not in this area, but adjacent areas to the NE**

**Dominant Canopy Species Cover Classes** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1:scattered bands of trees\_\_ Zone 2:\_\_\_\_\_

Total % Canopy Cover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Maple \_\_\_\_\_

Species/1/2/3/4/5: Willow \_\_\_\_\_

Species/1/2/3/4/5: Sweetgum \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

**Tree Zonation**--Circle the appropriate category: 1) Abnormal zonation – multiple signs of abnormal distribution and cover; 2) Somewhat abnormal zonation with moderately abnormal distribution and cover; 3) Normal zonation with normal distribution and cover.

Additional Comments on Tree Species \_\_\_\_\_

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**AQUATIC**

**Dominant Aquatic Species % Cover Categories:** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1:\_\_\_\_\_ Zone 2:\_\_\_\_\_

Total % Aquatic Plant Cover:\_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: floating mats see herb list \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

**Aquatic Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal plant zonation; 2) Somewhat abnormal zonation - some signs of abnormal zonation; 3) Normal aquatic plant zonation

Additional Comments on Aquatic Species: \_\_\_\_\_

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## PLANT COMMUNITY HEALTH

Does community show unusual signs of stress? No. Visually estimate % of wetland zone exhibiting signs of stress; \_\_\_\_\_

Type of stress observed (e.g., dead or dying plants, discolored foliage, wilted or rolled leaves, premature leaf fall or senescence, etc.): \_\_\_\_\_

Does stress appear moisture related, or is there sign of disease or insect injury? \_\_\_\_\_

**Overall Condition of Plant Community is:**

Circle Appropriate Category: **1)** Plants are dead or dying; **2)** poor vigor with obvious decline (foliage discolored, wilted, premature leaf fall) ; **3)** fair vigor, some signs of stress or decline; **4)** medium vigor, some yellow-green foliage, or signs of leaf wilt or leaf curling; **5)** appearance good, foliage green but foliage thin, less than normal growth for the season; **6)** excellent vigor, foliage green in color, normal growth for the season.

**Additional Comments on Health** encroaching maples @ NE may be dead/dying \_\_\_\_\_

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## HYDIC SOILS

Look for signs of subsidence, oxidation or abnormal desiccation and select the category which best describes the current conditions of the wetland soils. This assessment may not be applicable (NA) if site is inundated.

Circle Appropriate Category: **1)** Substantial subsidence/oxidation; **2)** Moderate subsidence/oxidation; **3)** Little or no evidence of subsidence/oxidation

Circle Appropriate Soil Condition: **1)** Inundated, **2)** Saturated, **3)** Moist, **4)** Dry

**Additional Comments on Soil** \_\_\_\_\_ can not tell \_\_\_\_\_

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## HYDROLOGY

**Current Water Level Indicators** (e.g., mosses, lichens, stains)

Estimated depth of water relative to high water marks or indicators: \_\_\_\_\_; describe type of indicator: \_\_\_\_\_

Circle the Appropriate Category: **1)** None of these indicators are present or indicators are at ground level; **2)** Indicators present; however, indistinct or abnormally low in comparison to the historic normal pool; **3)** Indicators are distinct and at the appropriate level for the season.

**Additional Comments on Hydrology** within 0.5 ft of HW \_\_\_\_\_

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## WILDLIFE AND LISTED SPECIES

**Listed Flora and Fauna Observed** (Include activity information for fauna)

**Wetland-Dependent Fauna Observed:** great blue heron, snowy egret

Activity codes (M = mating, F = foraging, FT = flyover/traveling; N = nesting, OT = other)

Observation codes (O = observed, S = sign [scat, tracks, call or other signs of presence])



## GENERAL SITE DESCRIPTION CATEGORIES

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### Habitat Gradient

Circle Appropriate Category: **1)** full habitat gradient present from aquatic/wetland up gradient to native upland habitat; **2)** native upland habitat is present along 50-75% of perimeter; **3)** native upland habitat is present along 25-50% of perimeter; **4)** native upland habitat is present along less than 25% of perimeter.

**Additional Comments on Habitat Gradient** little upland present, surrounded by urban and suburban development

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### Habitat Quality

Circle Appropriate Category: **1)** habitats present are in relatively natural condition in terms of community structure and plant species composition; **2)** habitats are in degraded condition in terms of community structure and plant species composition ; **3)** habitats are in severely degraded condition in terms of community structure and plant species composition.

**Additional Comments on Habitat Quality** Edges of wetland are linear due to encroachment on all four sides

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### Hydrology and Landscape Position

Circle Appropriate Category: **1)** wetland/aquatic system is isolated, with no regular surface water inflow or outflow; **2)** system has surface water inflow or outflow only at high water condition; **3)** system is flow-through with surface water inflow and outflow.

**Additional Comments on Landscape Position:** check maps and photo's

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### Storm Water Inflows and Outflows

Circle Appropriate Category: **1)** no significant adverse effects to habitat, hydrologic regime, or water quality due to inflow of stormwater system; **2)** habitat conditions are generally good, but adverse effects to habitat, hydrologic regime, or water quality are evident due to inflow stormwater inflows; **3)** habitat conditions are degraded by adverse effects of stormwater inflows.

**Additional Comments on Surface Water** \_\_\_\_\_

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### Shoreline Development

Circle Appropriate Category: **1)** less than 10% of shoreline/perimeter is developed; **2)** 10 to 30% of shoreline/perimeter is developed; **3)** 30 to 60% of shoreline/perimeter is developed; **4)** greater than 60% of shoreline/perimeter is developed.

**Additional Comments on Shoreline:** \_\_\_\_\_

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### Land Protection

Circle Appropriate Category: **1)** site and surrounding lands are in public ownership, or land use is limited to conservation/preservation; **2)** some but not all site and surrounding lands are in public ownership, or protected by easement ; **3)** site and surrounding lands are in not public ownership, nor protected by easement.

**Additional Comments on Land Protection** \_\_\_\_\_

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### Site Disturbance

Circle Appropriate Category: **1)** less than 10% wetland/water body recent land clearance or disturbance; **2)** 10 to 30% of wetland/water body is affected by recent land disturbance; **3)** 30 to 60% of wetland/water body is affected by recent land disturbance; **4)** greater than 60% of wetland/water body is affected by recent land disturbance.

Circle Appropriate Category: **1)** less than 10% uplands adjacent wetland/water body affected by recent land clearance or disturbance; **2)** 10 to 30% of upland is affected by recent land disturbance; **3)** 30 to 60% of upland is affected by recent land disturbance; **4)** greater than 60% of upland is affected by recent land disturbance.

**Additional Comments on Land Disturbance** \_\_\_\_\_

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### Drainage Alteration

Are significant drainage features present on the site? No If yes, describe: \_\_\_\_\_

Are there significant drainage features on lands bordering the wetland/water body? No If yes, describe: \_\_\_\_\_  
photo's \_\_\_\_\_

**Additional Comments on Drainage** \_\_\_\_\_

# Wetland Assessment Field Form--SJRWMD Constraint Wetland Project

PROJECT: Island Lake SJRWMD SITE ID: #82 COUNTY: Seminole

OTHER LOCATION NOTES: Lake Como Park off of Bumby

PERSONNEL : Bill Dunn and Bob Fewster DATE: 8/11/05 TIME: 16:30

GPS COORDINATES: Latitude : N 28 46.605 Longitude: W 81 22.417

## PHOTOGRAPHY

Roll: \_\_\_\_\_ Photo Frame #s-- pan of 5 shots lake with mostly open water patches of water lilies, shoreline mostly developed

Description of photo(s):

## WATER LEVEL

Water Depth: w/in 0.5' of H.W. Staff Gage or Piezometer Level (if present): \_\_\_\_\_

## VEGETATION

Major Vegetation Zones Present in Wetland or Water Body: \_\_\_\_\_ forested, \_\_\_\_\_ shrub scrub, X marsh, \_\_\_\_\_ aquatic, \_\_\_\_\_ pond, X lake, \_\_\_\_\_ other (list): littoral edge

**HERBACEOUS GROUNDCOVER** (% cover of OBL and/or FACW species to nearest 10%) **No significant marsh areas**

Zone 1: Composition: \_\_\_\_\_ Zone 2: Composition: \_\_\_\_\_

**Dominant Groundcover Species Cover Classes:** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_  
Total % Groundcover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

**Groundcover Species Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal groundcover zonation; 2) Somewhat abnormal zonation - some signs of abnormal groundcover zonation mainly limited to the wetland edge; 3) Normal groundcover zonation.

**Additional Comments on Groundcover** \_\_\_\_\_

## NUISANCE/WEEDY GROUNDCOVER

**Composition**--Circle the appropriate category: 1) > 50% of all groundcover species cover is weeds; 2) > 10% and < 50% of all groundcover species cover is weeds (either dispersed throughout wetland or in dense localized patches); 3) < 10% of all groundcover species cover is weeds or weeds are absent.

**Additional Comments on Weedy Species** \_\_\_\_\_

## SHRUB-- No significant shrub areas

**Composition** \_\_\_\_\_ % cover OBL and/or FACW shrub species to nearest 10%

**Dominant Shrub Species Cover Classes:** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_  
Total % Shrub cover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

**Shrub and Small Tree Species Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal shrub and tree zonation; 2) Somewhat abnormal zonation - some signs of abnormal shrub and tree zonation mainly limited to the wetland edge; 3) Normal shrub and tree zonation.

Additional Comments on Shrubs \_\_\_\_\_

**WEEDY SHRUB**

**Composition** --Circle the appropriate category: 1) > 50% of all shrub species cover is weeds; 2) > 10% and < 50% of all shrub species cover is (either dispersed throughout the wetland or in dense localized patches); 3) < 10% of all shrub species cover is weeds or weeds are absent.

Additional Comments on Weedy Shrubs \_\_\_\_\_

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**CANOPY (TREE)-- No significant forested areas**

**Dominant Canopy Species Cover Classes** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Canopy Cover: \_\_\_\_\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Tree Zonation**--Circle the appropriate category: 1) Abnormal zonation – multiple signs of abnormal distribution and cover; 2) Somewhat abnormal zonation with moderately abnormal distribution and cover; 3) Normal zonation with normal distribution and cover.

Additional Comments on Tree Species: \_\_\_\_\_

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**AQUATIC**

**Dominant Aquatic Species % Cover Categories:** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Aquatic Plant 15% \_\_\_\_\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Water lilies \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Aquatic Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal plant zonation; 2) Somewhat abnormal zonation - some signs of abnormal zonation; 3) Normal aquatic plant zonation

Additional Comments on Aquatic Species: \_\_\_\_\_

\_\_\_\_\_



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## PLANT COMMUNITY HEALTH

Does community show unusual signs of stress? No. Visually estimate % of wetland zone exhibiting signs of stress; \_\_\_\_\_

Type of stress observed (e.g., dead or dying plants, discolored foliage, wilted or rolled leaves, premature leaf fall or senescence, etc.): \_\_\_\_\_

Does stress appear moisture related, or is there sign of disease or insect injury? \_\_\_\_\_

### Overall Condition of Plant Community is:

Circle Appropriate Category: **1)** Plants are dead or dying; **2)** poor vigor with obvious decline (foliage discolored, wilted, premature leaf fall) ; **3)** fair vigor, some signs of stress or decline; **4)** medium vigor, some yellow-green foliage, or signs of leaf wilt or leaf curling; **5)** appearance good, foliage green but foliage thin, less than normal growth for the season; **6)** excellent vigor, foliage green in color, normal growth for the season.

Additional Comments on Health \_\_\_\_\_

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## HYDIC SOILS

Look for signs of subsidence, oxidation or abnormal desiccation and select the category which best describes the current conditions of the wetland soils. This assessment may not be applicable (NA) if site is inundated.

Circle Appropriate Category: **1)** Substantial subsidence/oxidation; **2)** Moderate subsidence/oxidation; **3)** Little or no evidence of subsidence/oxidation

Circle Appropriate Soil Condition: **1)** Inundated, **2)** Saturated, **3)** Moist, **4)** Dry

Additional Comments on Soil \_\_\_\_\_

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## HYDROLOGY

**Current Water Level Indicators** (e.g., mosses, lichens, stains)

Estimated depth of water relative to high water marks or indicators: \_\_\_\_\_; describe type of indicator: \_\_\_\_\_

Circle the Appropriate Category: **1)** None of these indicators are present or indicators are at ground level; **2)** Indicators present; however, indistinct or abnormally low in comparison to the historic normal pool; **3)** Indicators are distinct and at the appropriate level for the season.

Additional Comments on Hydrology within 0.5-1.0 ft of high water

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## WILDLIFE AND LISTED SPECIES

**Listed Flora and Fauna Observed** (Include activity information for fauna)

### Wetland-Dependent Fauna Observed:

Activity codes (M = mating, F = foraging, FT = flyover/traveling; N = nesting, OT = other)

Observation codes (O = observed, S = sign [scat, tracks, call or other signs of presence])

## GENERAL SITE DESCRIPTION CATEGORIES

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### Habitat Gradient

Circle Appropriate Category: **1)** full habitat gradient present from aquatic/wetland up gradient to native upland habitat; **2)** native upland habitat is present along 50-75% of perimeter; **3)** native upland habitat is present along 25-50% of perimeter; **4)** native upland habitat is present along less than 25% of perimeter.

Additional Comments on Habitat Gradient < 25%

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### Habitat Quality

Circle Appropriate Category: **1)** habitats present are in relatively natural condition in terms of community structure and plant species composition; **2)** habitats are in degraded condition in terms of community structure and plant species composition ; **3)** habitats are in severely degraded condition in terms of community structure and plant species composition.

Additional Comments on Habitat Quality whole edge is gone, remaining is ok

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### Hydrology and Landscape Position

Circle Appropriate Category: **1)** wetland/aquatic system is isolated, with no regular surface water inflow or outflow; **2)** system has surface water inflow or outflow only at high water condition; **3)** system is flow-through with surface water inflow and outflow.

Additional Comments on Landscape Position: connected to other lakes

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### Storm Water Inflows and Outflows

Circle Appropriate Category: **1)** no significant adverse effects to habitat, hydrologic regime, or water quality due to inflow of stormwater system; **2)** habitat conditions are generally good, but adverse effects to habitat, hydrologic regime, or water quality are evident due to inflow stormwater inflows; **3)** habitat conditions are degraded by adverse effects of stormwater inflows.

Additional Comments on Surface Water swales w/ pop off

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### Shoreline Development

Circle Appropriate Category: **1)** less than 10% of shoreline/perimeter is developed; **2)** 10 to 30% of shoreline/perimeter is developed; **3)** 30 to 60% of shoreline/perimeter is developed; **4)** greater than 60% of shoreline/perimeter is developed.

Additional Comments on Shoreline >80%

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### Land Protection

Circle Appropriate Category: **1)** site and surrounding lands are in public ownership, or land use is limited to conservation/preservation; **2)** some but not all site and surrounding lands are in public ownership, or protected by easement ; **3)** site and surrounding lands are in not public ownership, nor protected by easement.

Additional Comments on Land Protection full development

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### Site Disturbance

Circle Appropriate Category: **1)** less than 10% wetland/water body recent land clearance or disturbance; **2)** 10 to 30% of wetland/water body is affected by recent land disturbance; **3)** 30 to 60% of wetland/water body is affected by recent land disturbance; **4)** greater than 60% of wetland/water body is affected by recent land disturbance.

Circle Appropriate Category: **1)** less than 10% uplands adjacent wetland/water body affected by recent land clearance or disturbance; **2)** 10 to 30% of upland is affected by recent land disturbance; **3)** 30 to 60% of upland is affected by recent land disturbance; **4)** greater than 60% of upland is affected by recent land disturbance.

Additional Comments on Land Disturbance: land already developed

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### Drainage Alteration

Are significant drainage features present on the site? No If yes, describe: \_\_\_\_\_

Are there significant drainage features on lands bordering the wetland/water body? No If yes, describe: \_\_\_\_\_

Additional Comments on Drainage \_\_\_\_\_





Additional Comments on Shrubs dense air potato on fringe

**WEEDY SHRUB**

**Composition** --Circle the appropriate category: 1) > 50% of all shrub species cover is weeds; 2) > 10% and < 50% of all shrub species cover is (either dispersed throughout the wetland or in dense localized patches); 3) < 10% of all shrub species cover is weeds or weeds are absent.

Additional Comments on Weedy Shrubs \_\_\_\_\_

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**CANOPY (TREE)**

**Dominant Canopy Species Cover Classes** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_

Total % Canopy Cover: 50% Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Red maple \_\_\_\_\_

Species/1/2/3/4/5: Quercus nigra \_\_\_\_\_

Species/1/2/3/4/5: Magnolia virg. \_\_\_\_\_

Species/1/2/3/4/5: Nyssa biflora \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

**Tree Zonation**--Circle the appropriate category: 1) Abnormal zonation – multiple signs of abnormal distribution and cover; 2) Somewhat abnormal zonation with moderately abnormal distribution and cover; 3) Normal zonation with normal distribution and cover.

Additional Comments on Tree Species \_\_\_\_\_

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**AQUATIC....80-90% standing water Vs. ?**

**Dominant Aquatic Species % Cover Categories:** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: 95% Zone 2: \_\_\_\_\_

Total % Aquatic Plant Cover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Salvinia \_\_\_\_\_

Species/1/2/3/4/5: Lemna americana \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

**Aquatic Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal plant zonation; 2) Somewhat abnormal zonation - some signs of abnormal zonation; 3) Normal aquatic plant zonation

Additional Comments on Aquatic Species: \_\_\_\_\_

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## PLANT COMMUNITY HEALTH

Does community show unusual signs of stress? No Visually estimate % of wetland zone exhibiting signs of stress; \_\_\_\_\_

Type of stress observed (e.g., dead or dying plants, discolored foliage, wilted or rolled leaves, premature leaf fall or senescence, etc.): \_\_\_\_\_

Does stress appear moisture related, or is there sign of disease or insect injury? storm (hurricane) damage to maples

**Overall Condition of Plant Community is:**

Circle Appropriate Category: **1)** Plants are dead or dying; **2)** poor vigor with obvious decline (foliage discolored, wilted, premature leaf fall) ; **3)** fair vigor, some signs of stress or decline; **4)** medium vigor, some yellow-green foliage, or signs of leaf wilt or leaf curling; **5)** appearance good, foliage green but foliage thin, less than normal growth for the season; **6)** excellent vigor, foliage green in color, normal growth for the season.

**Additional Comments on Health:** Storm damage only

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## HYDIC SOILS

Look for signs of subsidence, oxidation or abnormal desiccation and select the category which best describes the current conditions of the wetland soils. This assessment may not be applicable (NA) if site is inundated.

Circle Appropriate Category: **1)** Substantial subsidence/oxidation; **2)** Moderate subsidence/oxidation; **3)** Little or no evidence of subsidence/oxidation

Circle Appropriate Soil Condition: **1)** Inundated, **2)** Saturated, **3)** Moist, **4)** Dry

**Additional Comments on Soil** \_\_\_\_\_

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## HYDROLOGY

**Current Water Level Indicators** (e.g., mosses, lichens, stains)

Estimated depth of water relative to high water marks or indicators: within 1.0 ft. of water marks on trees

Circle the Appropriate Category: **1)** None of these indicators are present or indicators are at ground level; **2)** Indicators present; however, indistinct or abnormally low in comparison to the historic normal pool; **3)** Indicators are distinct and at the appropriate level for the season.

**Additional Comments on Hydrology** \_\_\_\_\_

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## WILDLIFE AND LISTED SPECIES

**Listed Flora and Fauna Observed** (Include activity information for fauna)

**Wetland-Dependent Fauna Observed:**

Activity codes (M = mating, F = foraging, FT = flyover/traveling; N = nesting, OT = other)

Observation codes (O = observed, S = sign [scat, tracks, call or other signs of presence])

## GENERAL SITE DESCRIPTION CATEGORIES

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### Habitat Gradient

Circle Appropriate Category: **1)** full habitat gradient present from aquatic/wetland up gradient to native upland habitat; **2)** native upland habitat is present along 50-75% of perimeter; **3)** native upland habitat is present along 25-50% of perimeter; **4)** native upland habitat is present along less than 25% of perimeter.

Additional Comments on Habitat Gradient little to no upland, narrow band of pine woods in some places

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### Habitat Quality

Circle Appropriate Category: **1)** habitats present are in relatively natural condition in terms of community structure and plant species composition; **2)** habitats are in degraded condition in terms of community structure and plant species composition ; **3)** habitats are in severely degraded condition in terms of community structure and plant species composition.

Additional Comments on Habitat Quality referring to wetland

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### Hydrology and Landscape Position

Circle Appropriate Category: **1)** wetland/aquatic system is isolated, with no regular surface water inflow or outflow; **2)** system has surface water inflow or outflow only at high water condition; **3)** system is flow-through with surface water inflow and outflow.

Additional Comments on Landscape Position: check landscape connectivity on maps

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### Storm Water Inflows and Outflows

Circle Appropriate Category: **1)** no significant adverse effects to habitat, hydrologic regime, or water quality due to inflow of stormwater system; **2)** habitat conditions are generally good, but adverse effects to habitat, hydrologic regime, or water quality are evident due to inflow stormwater inflows; **3)** habitat conditions are degraded by adverse effects of stormwater inflows.

Additional Comments on Surface Water \_\_\_\_\_

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### Shoreline Development

Circle Appropriate Category: **1)** less than 10% of shoreline/perimeter is developed; **2)** 10 to 30% of shoreline/perimeter is developed; **3)** 30 to 60% of shoreline/perimeter is developed; **4)** greater than 60% of shoreline/perimeter is developed.

Additional Comments on Shoreline: \_\_\_\_\_

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### Land Protection

Circle Appropriate Category: **1)** site and surrounding lands are in public ownership, or land use is limited to conservation/preservation; **2)** some but not all site and surrounding lands are in public ownership, or protected by easement ; **3)** site and surrounding lands are in not public ownership, nor protected by easement.

Additional Comments on Land Protection \_\_\_\_\_

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### Site Disturbance

Circle Appropriate Category: **1)** less than 10% wetland/water body recent land clearance or disturbance; **2)** 10 to 30% of wetland/water body is affected by recent land disturbance; **3)** 30 to 60% of wetland/water body is affected by recent land disturbance; **4)** greater than 60% of wetland/water body is affected by recent land disturbance.

Circle Appropriate Category: **1)** less than 10% uplands adjacent wetland/water body affected by recent land clearance or disturbance; **2)** 10 to 30% of upland is affected by recent land disturbance; **3)** 30 to 60% of upland is affected by recent land disturbance; **4)** greater than 60% of upland is affected by recent land disturbance.

Additional Comments on Land Disturbance no evidence of recent disturbance

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### Drainage Alteration

Are significant drainage features present on the site? No If yes, describe: \_\_\_\_\_

Are there significant drainage features on lands bordering the wetland/water body? No If yes, describe: \_\_\_\_\_  
photo's \_\_\_\_\_

Additional Comments on Drainage \_\_\_\_\_



# Wetland Assessment Field Form--SJRWMD Constraint Wetland Project

PROJECT: Crystal Lake @ community center SJRWMD SITE ID: #87 COUNTY: \_\_\_\_\_

OTHER LOCATION NOTES: Site visited previously during Sentinel Site Survey

PERSONNEL : Bill Dunn and Bob Fewster DATE: 8/11/05 TIME: 13:00

GPS COORDINATES: Latitude : N 28 45.724 Longitude: W 81 19.424

## PHOTOGRAPHY

Roll: \_\_\_\_\_ Photo Frame #: 3 pan on east, 4 pan on west

Description of photo(s): \*\*\*lake is monitored by Seminole County; park on west side 28 45.559, 81 19.991

WATER LEVE.....gage at park on west side

Water Depth: up to the edge of maintained lawn at community center Staff Gage or Piezometer Level (if present): 43.25 ft

## VEGETATION ---complex mosaic of wetland and aquatic habitat

Major Vegetation Zones Present in Wetland or Water Body:  forested,  shrub scrub,  marsh,  aquatic,  pond,  lake, \_\_\_\_\_ other (list): \_\_\_\_\_

**HERBACEOUS GROUNDCOVER** (% cover of OBL and/or FACW species to nearest 10%)

Zone 1: Composition: \_\_\_\_\_ Zone 2: Composition: \_\_\_\_\_ littoral zone

Dominant Groundcover Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_

Total % Groundcover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Ludwigia peruviana \_\_\_\_\_

Species/1/2/3/4/5: Torpedograss (Panicum repens) \_\_\_\_\_

Species/1/2/3/4/5: Pontederia cordata \_\_\_\_\_

Species/1/2/3/4/5: Cattail \_\_\_\_\_

Species/1/2/3/4/5: Polygonum punctatum \_\_\_\_\_

**Groundcover Species Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal groundcover zonation; 2) Somewhat abnormal zonation - some signs of abnormal groundcover zonation mainly limited to the wetland edge; 3) Normal groundcover zonation.

Additional Comments on Groundcover \_\_\_\_\_

## NUISANCE/WEEDY GROUNDCOVER.....for the zone

Composition--Circle the appropriate category: 1) > 50% of all groundcover species cover is weeds; 2) > 10% and < 50% of all groundcover species cover is weeds (either dispersed throughout wetland or in dense localized patches); 3) < 10% of all groundcover species cover is weeds or weeds are absent.

Additional Comments on Weedy Species \_\_\_\_\_

## SHRUB.....shrubby border in places

Composition \_\_\_\_\_ % cover OBL and/or FACW shrub species to nearest 10%

Dominant Shrub Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_

Total % Shrub cover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Willow \_\_\_\_\_

Species/1/2/3/4/5: Lugwigia peruviana \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

**Shrub and Small Tree Species Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal shrub and tree zonation; 2) Somewhat abnormal zonation -some signs of abnormal shrub and tree zonation mainly limited to the wetland edge; 3) Normal shrub and tree zonation.

Additional Comments on Shrubs \_\_\_\_\_

**WEEDY SHRUB**

**Composition** --Circle the appropriate category: 1) > 50% of all shrub species cover is weeds; 2) > 10% and < 50% of all shrub species cover is (either dispersed throughout the wetland or in dense localized patches); 3) < 10% of all shrub species cover is weeds or weeds are absent.

Additional Comments on Weedy Shrubs \_\_\_\_\_

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**CANOPY (TREE).....on fringe and on island**

**Dominant Canopy Species Cover Classes** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Canopy Cover: \_\_\_\_\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Acer rubrum \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: Salix caroliniana \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: Pinus elliottii \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Tree Zonation**--Circle the appropriate category: 1) Abnormal zonation – multiple signs of abnormal distribution and cover; 2) Somewhat abnormal zonation with moderately abnormal distribution and cover; 3) Normal zonation with normal distribution and cover.

Additional Comments on Tree Species \_\_\_\_\_

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**AQUATIC**

**Dominant Aquatic Species % Cover Categories:** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Aquatic Plant Cover: \_\_\_\_\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Nymphaea odorata \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Aquatic Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal plant zonation; 2) Somewhat abnormal zonation - some signs of abnormal zonation; 3) Normal aquatic plant zonation

Additional Comments on Aquatic Species: Lake is mostly open water

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## PLANT COMMUNITY HEALTH

Does community show unusual signs of stress? No. Visually estimate % of wetland zone exhibiting signs of stress; \_\_\_\_\_

Type of stress observed (e.g., dead or dying plants, discolored foliage, wilted or rolled leaves, premature leaf fall or senescence, etc.): \_\_\_\_\_

Does stress appear moisture related, or is there sign of disease or insect injury? None \_\_\_\_\_

### Overall Condition of Plant Community is:

Circle Appropriate Category: **1)** Plants are dead or dying; **2)** poor vigor with obvious decline (foliage discolored, wilted, premature leaf fall) ; **3)** fair vigor, some signs of stress or decline; **4)** medium vigor, some yellow-green foliage, or signs of leaf wilt or leaf curling; **5)** appearance good, foliage green but foliage thin, less than normal growth for the season; **6)** excellent vigor, foliage green in color, normal growth for the season.

Additional Comments on Health: young maples on island looked to be stressed after colonizing during drought \_\_\_\_\_

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## HYDIC SOILS

Look for signs of subsidence, oxidation or abnormal desiccation and select the category which best describes the current conditions of the wetland soils. This assessment may not be applicable (NA) if site is inundated.

Circle Appropriate Category: **1)** Substantial subsidence/oxidation; **2)** Moderate subsidence/oxidation; **3)** Little or no evidence of subsidence/oxidation

Circle Appropriate Soil Condition: **1)** Inundated, **2)** Saturated, **3)** Moist, **4)** Dry

Additional Comments on Soil can not tell due to high level of water \_\_\_\_\_

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## HYDROLOGY

### Current Water Level Indicators (e.g., mosses, lichens, stains)

Estimated depth of water relative to high water marks or indicators: within 0.5 ft of high \_\_\_\_\_; describe type of indicator: \_\_\_\_\_

Circle the Appropriate Category: **1)** None of these indicators are present or indicators are at ground level; **2)** Indicators present; however, indistinct or abnormally low in comparison to the historic normal pool; **3)** Indicators are distinct and at the appropriate level for the season.

Additional Comments on Hydrology current level is close to high water, up to edge of lawn at community center \_\_\_\_\_

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## WILDLIFE AND LISTED SPECIES

### Listed Flora and Fauna Observed (Include activity information for fauna)

#### Wetland-Dependent Fauna Observed:

Activity codes (M = mating, F = foraging, FT = flyover/traveling; N = nesting, OT = other)

Observation codes (O = observed, S = sign [scat, tracks, call or other signs of presence])



# GENERAL SITE DESCRIPTION CATEGORIES

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## Habitat Gradient

Circle Appropriate Category: **1)** full habitat gradient present from aquatic/wetland up gradient to native upland habitat; **2)** native upland habitat is present along 50-75% of perimeter; **3)** native upland habitat is present along 25-50% of perimeter; **4)** native upland habitat is present along less than 25% of perimeter.

Additional Comments on Habitat Gradient \_\_\_\_\_

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## Habitat Quality

Circle Appropriate Category: **1)** habitats present are in relatively natural condition in terms of community structure and plant species composition; **2)** habitats are in degraded condition in terms of community structure and plant species composition ; **3)** habitats are in severely degraded condition in terms of community structure and plant species composition.

Additional Comments on Habitat Quality 1.5 primrose willow on the border \_\_\_\_\_

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## Hydrology and Landscape Position

Circle Appropriate Category: **1)** wetland/aquatic system is isolated, with no regular surface water inflow or outflow; **2)** system has surface water inflow or outflow only at high water condition; **3)** system is flow-through with surface water inflow and outflow.

Additional Comments on Landscape Position: check aerial photos \_\_\_\_\_

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## Storm Water Inflows and Outflows

Circle Appropriate Category: **1)** no significant adverse effects to habitat, hydrologic regime, or water quality due to inflow of stormwater system; **2)** habitat conditions are generally good, but adverse effects to habitat, hydrologic regime, or water quality are evident due to inflow stormwater inflows; **3)** ) habitat conditions are degraded by adverse effects of stormwater inflows.

Additional Comments on Surface Water \_\_\_\_\_

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## Shoreline Development

Circle Appropriate Category: **1)** less than 10% of shoreline/perimeter is developed; **2)** 10 to 30% of shoreline/perimeter is developed; **3)** 30 to 60% of shoreline/perimeter is developed; **4)** greater than 60% of shoreline/perimeter is developed.

Additional Comments on Shoreline: \_\_\_\_\_

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## Land Protection

Circle Appropriate Category: **1)** site and surrounding lands are in public ownership, or land use is limited to conservation/preservation; **2)** some but not all site and surrounding lands are in public ownership, or protected by easement ; **3)** site and surrounding lands are in not public ownership, nor protected by easement.

Additional Comments on Land Protection small parks on east and west sides of lake \_\_\_\_\_

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## Site Disturbance.....none

Circle Appropriate Category: **1)** less than 10% wetland/water body recent land clearance or disturbance; **2)** 10 to 30% of wetland/water body is affected by recent land disturbance; **3)** 30 to 60% of wetland/water body is affected by recent land disturbance; **4)** greater than 60% of wetland/water body is affected by recent land disturbance.

Circle Appropriate Category: **1)** less than 10% uplands adjacent wetland/water body affected by recent land clearance or disturbance; **2)** 10 to 30% of upland is affected by recent land disturbance; **3)** 30 to 60% of upland is affected by recent land disturbance; **4)** greater than 60% of upland is affected by recent land disturbance.

Additional Comments on Land Disturbance \_\_\_\_\_

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## Drainage Alteration

Are significant drainage features present on the site? No If yes, describe: \_\_\_\_\_

Are there significant drainage features on lands bordering the wetland/water body? No If yes, describe: \_\_\_\_\_  
photo's \_\_\_\_\_

Additional Comments on Drainage \_\_\_\_\_

# Wetland Assessment Field Form--SJRWMD Constraint Wetland Project

PROJECT: Wolf Lake SJRWMD SITE ID: #98 COUNTY: Orange

OTHER LOCATION NOTES: entered from Ponka Road

PERSONNEL: Bill Dunn and Bob Fewster DATE: 8/23/05 TIME: 15:45

GPS COORDINATES: Latitude: N 28 43.653 Longitude: W 81 31.996

## PHOTOGRAPHY

Roll: \_\_\_\_\_ Photo Frame #s: pan of 3

Description of photo(s): NE corner of lake from Ponka Road

## WATER LEVEL

Water Depth: \_\_\_\_\_ Staff Gage or Piezometer Level (if present): \_\_\_\_\_

## VEGETATION--lake w/ several lobes w/ mix of marsh and fringing trees

Major Vegetation Zones Present in Wetland or Water Body: forested, shrub scrub, marsh, aquatic,  
pond, lake, X other (list): open water 80%

## HERBACEOUS GROUNDCOVER (% cover of OBL and/or FACW species to nearest 10%)

Zone 1: Composition: \_\_\_\_\_ Zone 2: Composition: \_\_\_\_\_

Dominant Groundcover Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: 15-20 Zone 2: \_\_\_\_\_

Total % Groundcover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: Maidencane \_\_\_\_\_

Species/1/2/3/4/5: Pontederia \_\_\_\_\_

Species/1/2/3/4/5: Dog fennel \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Groundcover Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal groundcover zonation; 2) Somewhat abnormal zonation - some signs of abnormal groundcover zonation mainly limited to the wetland edge; 3) Normal groundcover zonation.

Additional Comments on Groundcover \_\_\_\_\_

## NUISANCE/WEEDY GROUNDCOVER

Composition--Circle the appropriate category: 1) > 50% of all groundcover species cover is weeds; 2) > 10% and < 50% of all groundcover species cover is weeds (either dispersed throughout wetland or in dense localized patches); 3) < 10% of all groundcover species cover is weeds or weeds are absent.

Additional Comments on Weedy Species \_\_\_\_\_

## SHRUB

Composition \_\_\_\_\_ % cover OBL and/or FACW shrub species to nearest 10%

Dominant Shrub Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: scattered Zone 2: \_\_\_\_\_

Total % Shrub cover: 5% Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Cephalanthus occidentalis \_\_\_\_\_

Species/1/2/3/4/5: Rubus \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Shrub and Small Tree Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal shrub and tree zonation; 2) Somewhat abnormal zonation - some signs of abnormal shrub and tree zonation mainly limited to the wetland edge; 3) Normal shrub and tree zonation.

Additional Comments on Shrubs \_\_\_\_\_

**WEEDY SHRUB**

**Composition** --Circle the appropriate category: 1) > 50% of all shrub species cover is weeds; 2) > 10% and < 50% of all shrub species cover is (either dispersed throughout the wetland or in dense localized patches); 3) < 10% of all shrub species cover is weeds or weeds are absent.

Additional Comments on Weedy Shrubs \_\_\_\_\_

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**CANOPY (TREE)—no canopy stratum**

**Dominant Canopy Species Cover Classes** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Canopy Cover: \_\_\_\_\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Tree Zonation**--Circle the appropriate category: 1) Abnormal zonation – multiple signs of abnormal distribution and cover; 2) Somewhat abnormal zonation with moderately abnormal distribution and cover; 3) Normal zonation with normal distribution and cover.

Additional Comments on Tree Species \_\_\_\_\_

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**AQUATIC—no aquatic zone**

**Dominant Aquatic Species % Cover Categories:** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Aquatic Plant Cover: \_\_\_\_\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Aquatic Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal plant zonation; 2) Somewhat abnormal zonation - some signs of abnormal zonation; 3) Normal aquatic plant zonation

**Additional Comments on Aquatic Species:**

Pasture \_\_\_\_\_



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## PLANT COMMUNITY HEALTH

Does community show unusual signs of stress? No. Visually estimate % of wetland zone exhibiting signs of stress; \_\_\_\_\_

Type of stress observed (e.g., dead or dying plants, discolored foliage, wilted or rolled leaves, premature leaf fall or senescence, etc.): \_\_\_\_\_

Does stress appear moisture related, or is there sign of disease or insect injury? \_\_\_\_\_

### Overall Condition of Plant Community is:

Circle Appropriate Category: **1)** Plants are dead or dying; **2)** poor vigor with obvious decline (foliage discolored, wilted, premature leaf fall) ; **3)** fair vigor, some signs of stress or decline; **4)** medium vigor, some yellow-green foliage, or signs of leaf wilt or leaf curling; **5)** appearance good, foliage green but foliage thin, less than normal growth for the season; **6)** excellent vigor, foliage green in color, normal growth for the season.

Additional Comments on Health \_\_\_\_\_

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## HYDIC SOILS

Look for signs of subsidence, oxidation or abnormal desiccation and select the category which best describes the current conditions of the wetland soils. This assessment may not be applicable (NA) if site is inundated.

Circle Appropriate Category: **1)** Substantial subsidence/oxidation; **2)** Moderate subsidence/oxidation; **3)** Little or no evidence of subsidence/oxidation

Circle Appropriate Soil Condition: **1)** Inundated, **2)** Saturated, **3)** Moist, **4)** Dry

Additional Comments on Soil \_\_\_\_\_

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## HYDROLOGY

### Current Water Level Indicators (e.g., mosses, lichens, stains)

Estimated depth of water relative to high water marks or indicators: \_\_\_\_\_; describe type of indicator: \_\_\_\_\_

Circle the Appropriate Category: **1)** None of these indicators are present or indicators are at ground level; **2)** Indicators present; however, indistinct or abnormally low in comparison to the historic normal pool; **3)** Indicators are distinct and at the appropriate level for the season.

Additional Comments on Hydrology \_\_\_\_\_ Water level significantly higher than previous visit w/in 1.0' of HW, live oak line is 3-4' higher

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## WILDLIFE AND LISTED SPECIES

### Listed Flora and Fauna Observed (Include activity information for fauna)

#### Wetland-Dependent Fauna Observed:

Activity codes (M = mating, F = foraging, FT = flyover/traveling; N = nesting, OT = other)

Observation codes (O = observed, S = sign [scat, tracks, call or other signs of presence])

## GENERAL SITE DESCRIPTION CATEGORIES

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### Habitat Gradient

Circle Appropriate Category: **1)** full habitat gradient present from aquatic/wetland up gradient to native upland habitat; **2)** native upland habitat is present along 50-75% of perimeter; **3)** native upland habitat is present along 25-50% of perimeter; **4)** native upland habitat is present along less than 25% of perimeter.

Additional Comments on Habitat Gradient oak forest in places

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### Habitat Quality

Circle Appropriate Category: **1)** habitats present are in relatively natural condition in terms of community structure and plant species composition; **2)** habitats are in degraded condition in terms of community structure and plant species composition ; **3)** habitats are in severely degraded condition in terms of community structure and plant species composition.

Additional Comments on Habitat Quality \_\_\_\_\_

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### Hydrology and Landscape Position

Circle Appropriate Category: **1)** wetland/aquatic system is isolated, with no regular surface water inflow or outflow; **2)** system has surface water inflow or outflow only at high water condition; **3)** system is flow-through with surface water inflow and outflow.

Additional Comments on Landscape Position: \_\_\_\_\_

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### Storm Water Inflows and Outflows

Circle Appropriate Category: **1)** no significant adverse effects to habitat, hydrologic regime, or water quality due to inflow of stormwater system; **2)** habitat conditions are generally good, but adverse effects to habitat, hydrologic regime, or water quality are evident due to inflow stormwater inflows; **3)** ) habitat conditions are degraded by adverse effects of stormwater inflows.

Additional Comments on Surface Water \_\_\_\_\_

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### Shoreline Development

Circle Appropriate Category: **1)** less than 10% of shoreline/perimeter is developed; **2)** 10 to 30% of shoreline/perimeter is developed; **3)** 30 to 60% of shoreline/perimeter is developed; **4)** greater than 60% of shoreline/perimeter is developed.

Additional Comments on Shoreline pasture

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### Land Protection

Circle Appropriate Category: **1)** site and surrounding lands are in public ownership, or land use is limited to conservation/preservation; **2)** some but not all site and surrounding lands are in public ownership, or protected by easement ; **3)** site and surrounding lands are in not public ownership, nor protected by easement.

Additional Comments on Land Protection \_\_\_\_\_

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### Site Disturbance

Circle Appropriate Category: **1)** less than 10% wetland/water body recent land clearance or disturbance; **2)** 10 to 30% of wetland/water body is affected by recent land disturbance; **3)** 30 to 60% of wetland/water body is affected by recent land disturbance; **4)** greater than 60% of wetland/water body is affected by recent land disturbance.

Circle Appropriate Category: **1)** less than 10% uplands adjacent wetland/water body affected by recent land clearance or disturbance; **2)** 10 to 30% of upland is affected by recent land disturbance; **3)** 30 to 60% of upland is affected by recent land disturbance; **4)** greater than 60% of upland is affected by recent land disturbance.

Additional Comments on Land Disturbance \_\_\_\_\_0%\_\_\_\_\_

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### Drainage Alteration

Are significant drainage features present on the site? No If yes, describe: \_\_\_\_\_

Are there significant drainage features on lands bordering the wetland/water body? No If yes, describe: \_\_\_\_\_

Additional Comments on Drainage \_\_\_\_\_

# Wetland Assessment Field Form--SJRWMD Constraint Wetland Project

PROJECT: Wetland No. 106 SJRWMD SITE ID: #106 COUNTY: Seminole

OTHER LOCATION NOTES: enter @ stormwater pond at southeast corner

PERSONNEL: Bill Dunn and Bob Fewster DATE: 8/11/05 TIME: 11:10

GPS COORDINATES: Latitude:    N ? Longitude:    W ?

## PHOTOGRAPHY

Roll:    Photo Frame #s: 2 photo's of wetland edge @ pond, 2 photo's of swamp interior \*\*Bob F. says that this is a monitoring site for Orange Co.

Description of photo(s):

## WATER LEVEL:

Water Depth: 0.25 ft in shallows Staff Gage or Piezometer Level (if present):   

## VEGETATION—forested wetland

Major Vegetation Zones Present in Wetland or Water Body:  forested,  shrub scrub,  marsh,  aquatic,  pond,  lake,  other (list):   

## HERBACEOUS GROUNDCOVER (% cover of OBL and/or FACW species to nearest 10%)

Zone 1: Composition:    Zone 2: Composition:   

Dominant Groundcover Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1:    Zone 2:   

Total % Groundcover: 50% Total % Cover   

Species/1/2/3/4/5: Osmunda regalis   

Species/1/2/3/4/5: Osmunda cinnamomea   

Species/1/2/3/4/5: Peltanda virginica   

Species/1/2/3/4/5: Boehmeria   

Species/1/2/3/4/5:      

Groundcover Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal groundcover zonation; 2) Somewhat abnormal zonation - some signs of abnormal groundcover zonation mainly limited to the wetland edge; 3) Normal groundcover zonation.

Additional Comments on Groundcover   

## NUISANCE/WEEDY GROUNDCOVER

Composition--Circle the appropriate category: 1) > 50% of all groundcover species cover is weeds; 2) > 10% and < 50% of all groundcover species cover is weeds (either dispersed throughout wetland or in dense localized patches); 3) < 10% of all groundcover species cover is weeds or weeds are absent.

Additional Comments on Weedy Species   

## SHRUB

Composition    % cover OBL and/or FACW shrub species to nearest 10%

Dominant Shrub Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: 90% Zone 2:   

Total % Shrub cover: 90% Total % Cover   

Species/1/2/3/4/5: Rubus Dioscorea

Species/1/2/3/4/5: Acer   

Species/1/2/3/4/5: Magnolia Quercus virginiana

Species/1/2/3/4/5: Myrica   

Shrub and Small Tree Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal shrub and tree zonation; 2) Somewhat abnormal zonation - some signs of abnormal shrub and tree zonation mainly limited to the wetland edge; 3) Normal shrub and tree zonation.



Additional Comments on Shrubs \_\_\_\_\_

**WEEDY SHRUB**

**Composition** --Circle the appropriate category: 1) > 50% of all shrub species cover is weeds; 2) > 10% and < 50% of all shrub species cover is (either dispersed throughout the wetland or in dense localized patches); 3) < 10% of all shrub species cover is weeds or weeds are absent.

Additional Comments on Weedy Shrubs \_\_\_\_\_ little, camphor \_\_\_\_\_

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**CANOPY (TREE)**

**Dominant Canopy Species Cover Classes** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_ 50% \_\_\_\_\_ Zone 2: \_\_\_\_\_

Total % Canopy Cover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_ Acer \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_ Magnolia \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_ Quercus nigra \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

**Tree Zonation**--Circle the appropriate category: 1) Abnormal zonation – multiple signs of abnormal distribution and cover; 2) Somewhat abnormal zonation with moderately abnormal distribution and cover; 3) Normal zonation with normal distribution and cover.

Additional Comments on Tree Species \_\_\_\_\_ some canopy opening due to storm (hurricane) \_\_\_\_\_

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**AQUATIC....not present**

**Dominant Aquatic Species % Cover Categories:** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_

Total % Aquatic Plant Cover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

**Aquatic Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal plant zonation; 2) Somewhat abnormal zonation - some signs of abnormal zonation; 3) Normal aquatic plant zonation

Additional Comments on Aquatic Species: \_\_\_\_\_

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## PLANT COMMUNITY HEALTH

Does community show unusual signs of stress? No      Visually estimate % of wetland zone exhibiting signs of stress; \_\_\_\_\_

Type of stress observed (e.g., dead or dying plants, discolored foliage, wilted or rolled leaves, premature leaf fall or senescence, etc.): \_\_\_\_\_

Does stress appear moisture related, or is there sign of disease or insect injury? \_\_\_\_\_

**Overall Condition of Plant Community is:**

Circle Appropriate Category: **1)** Plants are dead or dying; **2)** poor vigor with obvious decline (foliage discolored, wilted, premature leaf fall) ; **3)** fair vigor, some signs of stress or decline; **4)** medium vigor, some yellow-green foliage, or signs of leaf wilt or leaf curling; **5)** appearance good, foliage green but foliage thin, less than normal growth for the season; **6)** excellent vigor, foliage green in color, normal growth for the season.

**Additional Comments on Health:** some storm damage, from hurricane

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## HYDIC SOILS

Look for signs of subsidence, oxidation or abnormal desiccation and select the category which best describes the current conditions of the wetland soils. This assessment may not be applicable (NA) if site is inundated.

Circle Appropriate Category: **1)** Substantial subsidence/oxidation; **2)** Moderate subsidence/oxidation; **3)** Little or no evidence of subsidence/oxidation

Circle Appropriate Soil Condition: **1)** Inundated, **2)** Saturated, **3)** Moist, **4)** Dry

**Additional Comments on Soil** \_\_\_\_\_

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## HYDROLOGY

**Current Water Level Indicators** (e.g., mosses, lichens, stains)

Estimated depth of water relative to high water marks or indicators: = 1.0 ft ; describe type of indicator: lichens

Circle the Appropriate Category: **1)** None of these indicators are present or indicators are at ground level; **2)** Indicators present; however, indistinct or abnormally low in comparison to the historic normal pool; **3)** Indicators are distinct and at the appropriate level for the season.

**Additional Comments on Hydrology** \_\_\_\_\_

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## WILDLIFE AND LISTED SPECIES

**Listed Flora and Fauna Observed** (Include activity information for fauna)

**Wetland-Dependent Fauna Observed:**

Activity codes (M = mating, F = foraging, FT = flyover/traveling; N = nesting, OT = other)

Observation codes (O = observed, S = sign [scat, tracks, call or other signs of presence])

## GENERAL SITE DESCRIPTION CATEGORIES

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### Habitat Gradient

Circle Appropriate Category: **1)** full habitat gradient present from aquatic/wetland up gradient to native upland habitat; **2)** native upland habitat is present along 50-75% of perimeter; **3)** native upland habitat is present along 25-50% of perimeter; **4)** native upland habitat is present along less than 25% of perimeter.

Additional Comments on Habitat Gradient houses surrounding

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### Habitat Quality

Circle Appropriate Category: **1)** habitats present are in relatively natural condition in terms of community structure and plant species composition; **2)** habitats are in degraded condition in terms of community structure and plant species composition ; **3)** habitats are in severely degraded condition in terms of community structure and plant species composition.

Additional Comments on Habitat Quality \_\_\_\_\_

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### Hydrology and Landscape Position

Circle Appropriate Category: **1)** wetland/aquatic system is isolated, with no regular surface water inflow or outflow; **2)** system has surface water inflow or outflow only at high water condition; **3)** system is flow-through with surface water inflow and outflow.

Additional Comments on Landscape Position: need to check map

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### Storm Water Inflows and Outflows

Circle Appropriate Category: **1)** no significant adverse effects to habitat, hydrologic regime, or water quality due to inflow of stormwater system; **2)** habitat conditions are generally good, but adverse effects to habitat, hydrologic regime, or water quality are evident due to inflow stormwater inflows; **3)** ) habitat conditions are degraded by adverse effects of stormwater inflows.

Additional Comments on Surface Water stormwater basin next to where we parked

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### Shoreline Development

Circle Appropriate Category: **1)** less than 10% of shoreline/perimeter is developed; **2)** 10 to 30% of shoreline/perimeter is developed; **3)** 30 to 60% of shoreline/perimeter is developed; **4)** greater than 60% of shoreline/perimeter is developed.

Additional Comments on Shoreline: \_\_\_\_\_

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### Land Protection

Circle Appropriate Category: **1)** site and surrounding lands are in public ownership, or land use is limited to conservation/preservation; **2)** some but not all site and surrounding lands are in public ownership, or protected by easement ; **3)** site and surrounding lands are in not public ownership, nor protected by easement.

Additional Comments on Land Protection may be monitoring site for Orange County

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### Site Disturbance

Circle Appropriate Category: **1)** less than 10% wetland/water body recent land clearance or disturbance; **2)** 10 to 30% of wetland/water body is affected by recent land disturbance; **3)** 30 to 60% of wetland/water body is affected by recent land disturbance; **4)** greater than 60% of wetland/water body is affected by recent land disturbance.

Circle Appropriate Category: **1)** less than 10% uplands adjacent wetland/water body affected by recent land clearance or disturbance; **2)** 10 to 30% of upland is affected by recent land disturbance; **3)** 30 to 60% of upland is affected by recent land disturbance; **4)** greater than 60% of upland is affected by recent land disturbance.

Additional Comments on Land Disturbance no observable disturbance in wetland

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### Drainage Alteration

Are significant drainage features present on the site? No If yes, describe: \_\_\_\_\_

Are there significant drainage features on lands bordering the wetland/water body? No If yes, describe: \_\_\_\_\_  
stormwater system on uplands \_\_\_\_\_

Additional Comments on Drainage \_\_\_\_\_



# Wetland Assessment Field Form--SJRWMD Constraint Wetland Project

PROJECT: Fisher Lake Wetland SJRWMD SITE ID: #109 COUNTY: Lake

OTHER LOCATION NOTES: entered from Spanish Oak Dr on North end

PERSONNEL: Bill Dunn and Bob Fewster DATE: 8/25/05 TIME: 8:35

GPS COORDINATES: Latitude: N 28 41.269 Longitude: W 81 46.602

## PHOTOGRAPHY

Roll: \_\_\_\_\_ Photo Frame #s: pan of 3

Description of photo(s): large forested wetland system

## WATER LEVEL

Water Depth: \_\_\_\_\_ Staff Gage or Piezometer Level (if present): \_\_\_\_\_

## VEGETATION .....lake w/ several lobes w/ mix of marsh and fringing trees

Major Vegetation Zones Present in Wetland or Water Body: forested, shrub scrub, marsh, aquatic,  
pond, lake, other (list): \_\_\_\_\_

## HERBACEOUS GROUNDCOVER (% cover of OBL and/or FACW species to nearest 10%)

Zone 1: Composition: \_\_\_\_\_ Zone 2: Composition: \_\_\_\_\_

Dominant Groundcover Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: littoral zone Zone 2: \_\_\_\_\_

Total % Groundcover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Maidencane \_\_\_\_\_

Species/1/2/3/4/5: Nymphaea \_\_\_\_\_

Species/1/2/3/4/5: Pontederia \_\_\_\_\_

Species/1/2/3/4/5: Sagittaria latifolia \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Groundcover Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal groundcover zonation; 2) Somewhat abnormal zonation - some signs of abnormal groundcover zonation mainly limited to the wetland edge; 3) Normal groundcover zonation.

Additional Comments on Groundcover \_\_\_\_\_

## NUISANCE/WEEDY GROUNDCOVER

Composition--Circle the appropriate category: 1) > 50% of all groundcover species cover is weeds; 2) > 10% and < 50% of all groundcover species cover is weeds (either dispersed throughout wetland or in dense localized patches); 3) < 10% of all groundcover species cover is weeds or weeds are absent.

Additional Comments on Weedy Species \_\_\_\_\_

## SHRUB

Composition \_\_\_\_\_ % cover OBL and/or FACW shrub species to nearest 10%

Dominant Shrub Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_

Total % Shrub cover: in narrow littoral area Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Hypericum \_\_\_\_\_

Species/1/2/3/4/5: Myrica \_\_\_\_\_

Species/1/2/3/4/5: Ilex cassine \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Shrub and Small Tree Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal shrub and tree zonation; 2) Somewhat abnormal zonation - some signs of abnormal shrub and tree zonation mainly limited to the wetland edge; 3) Normal shrub and tree zonation. Most of the Wetland here is suc

Additional Comments on Shrubs \_\_\_\_\_

**WEEDY SHRUB**

**Composition** --Circle the appropriate category: 1) > 50% of all shrub species cover is weeds; 2) > 10% and < 50% of all shrub species cover is (either dispersed throughout the wetland or in dense localized patches); 3) < 10% of all shrub species cover is weeds or weeds are absent.

Additional Comments on Weedy Shrubs \_\_\_\_\_

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**CANOPY (TREE)**

**Dominant Canopy Species Cover Classes** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: scattered bands of trees\_\_ Zone 2: \_\_\_\_\_

Total % Canopy Cover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Bald Cypress \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

**Tree Zonation**--Circle the appropriate category: 1) Abnormal zonation – multiple signs of abnormal distribution and cover; 2) Somewhat abnormal zonation with moderately abnormal distribution and cover; 3) Normal zonation with normal distribution and cover.

Additional Comments on Tree Species \_\_\_\_\_

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**AQUATIC.....patches of water lily**

**Dominant Aquatic Species % Cover Categories:** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_

Total % Aquatic Plant Cover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Nymphaea \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

**Aquatic Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal plant zonation; 2) Somewhat abnormal zonation - some signs of abnormal zonation; 3) Normal aquatic plant zonation

Additional Comments on Aquatic Species: \_\_\_\_\_

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## PLANT COMMUNITY HEALTH

Does community show unusual signs of stress? No. Visually estimate % of wetland zone exhibiting signs of stress; \_\_\_\_\_

Type of stress observed (e.g., dead or dying plants, discolored foliage, wilted or rolled leaves, premature leaf fall or senescence, etc.): \_\_\_\_\_

Does stress appear moisture related, or is there sign of disease or insect injury? \_\_\_\_\_

### Overall Condition of Plant Community is:

Circle Appropriate Category: **1)** Plants are dead or dying; **2)** poor vigor with obvious decline (foliage discolored, wilted, premature leaf fall) ; **3)** fair vigor, some signs of stress or decline; **4)** medium vigor, some yellow-green foliage, or signs of leaf wilt or leaf curling; **5)** appearance good, foliage green but foliage thin, less than normal growth for the season; **6)** excellent vigor, foliage green in color, normal growth for the season.

Additional Comments on Health \_\_\_\_\_

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## HYDIC SOILS

Look for signs of subsidence, oxidation or abnormal desiccation and select the category which best describes the current conditions of the wetland soils. This assessment may not be applicable (NA) if site is inundated.

Circle Appropriate Category: **1)** Substantial subsidence/oxidation; **2)** Moderate subsidence/oxidation; **3)** Little or no evidence of subsidence/oxidation

Circle Appropriate Soil Condition: **1)** Inundated, **2)** Saturated, **3)** Moist, **4)** Dry

Additional Comments on Soil Water is high \_\_\_\_\_

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## HYDROLOGY

### Current Water Level Indicators (e.g., mosses, lichens, stains)

Estimated depth of water relative to high water marks or indicators: \_\_\_\_\_; describe type of indicator: \_\_\_\_\_

Circle the Appropriate Category: **1)** None of these indicators are present or indicators are at ground level; **2)** Indicators present; however, indistinct or abnormally low in comparison to the historic normal pool; **3)** Indicators are distinct and at the appropriate level for the season.

Additional Comments on Hydrology Water is high; looks to be w/in 0.5' of edge of pines \_\_\_\_\_

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## WILDLIFE AND LISTED SPECIES

### Listed Flora and Fauna Observed (Include activity information for fauna)

#### Wetland-Dependent Fauna Observed:

Activity codes (M = mating, F = foraging, FT = flyover/traveling; N = nesting, OT = other)

Observation codes (O = observed, S = sign [scat, tracks, call or other signs of presence])



# GENERAL SITE DESCRIPTION CATEGORIES

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## Habitat Gradient

Circle Appropriate Category: **1)** full habitat gradient present from aquatic/wetland up gradient to native upland habitat; **2)** native upland habitat is present along 50-75% of perimeter; **3)** native upland habitat is present along 25-50% of perimeter; **4)** native upland habitat is present along less than 25% of perimeter.

Additional Comments on Habitat Gradient pine forest on east side

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## Habitat Quality

Circle Appropriate Category: **1)** habitats present are in relatively natural condition in terms of community structure and plant species composition; **2)** habitats are in degraded condition in terms of community structure and plant species composition ; **3)** habitats are in severely degraded condition in terms of community structure and plant species composition.

Additional Comments on Habitat Quality \_\_\_\_\_

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## Hydrology and Landscape Position.....mostly isolated

Circle Appropriate Category: **1)** wetland/aquatic system is isolated, with no regular surface water inflow or outflow; **2)** system has surface water inflow or outflow only at high water condition; **3)** system is flow-through with surface water inflow and outflow.

Additional Comments on Landscape Position: high water connects to other ponds/lake

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## Storm Water Inflows and Outflows

Circle Appropriate Category: **1)** no significant adverse effects to habitat, hydrologic regime, or water quality due to inflow of stormwater system; **2)** habitat conditions are generally good, but adverse effects to habitat, hydrologic regime, or water quality are evident due to inflow stormwater inflows; **3)** ) habitat conditions are degraded by adverse effects of stormwater inflows.

Additional Comments on Surface Water \_\_\_\_\_

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## Shoreline Development = 60%

Circle Appropriate Category: **1)** less than 10% of shoreline/perimeter is developed; **2)** 10 to 30% of shoreline/perimeter is developed; **3)** 30 to 60% of shoreline/perimeter is developed; **4)** greater than 60% of shoreline/perimeter is developed.

Additional Comments on Shoreline 60 %pasture or grove

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## Land Protection

Circle Appropriate Category: **1)** site and surrounding lands are in public ownership, or land use is limited to conservation/preservation; **2)** some but not all site and surrounding lands are in public ownership, or protected by easement ; **3)** site and surrounding lands are in not public ownership, nor protected by easement.

Additional Comments on Land Protection \_\_\_\_\_

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## Site Disturbance

Circle Appropriate Category: **1)** less than 10% wetland/water body recent land clearance or disturbance; **2)** 10 to 30% of wetland/water body is affected by recent land disturbance; **3)** 30 to 60% of wetland/water body is affected by recent land disturbance; **4)** greater than 60% of wetland/water body is affected by recent land disturbance.

Circle Appropriate Category: **1)** less than 10% uplands adjacent wetland/water body affected by recent land clearance or disturbance; **2)** 10 to 30% of upland is affected by recent land disturbance; **3)** 30 to 60% of upland is affected by recent land disturbance; **4)** greater than 60% of upland is affected by recent land disturbance.

Additional Comments on Land Disturbance \_\_\_\_\_0%

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## Drainage Alteration

Are significant drainage features present on the site? No If yes, describe: \_\_\_\_\_

Are there significant drainage features on lands bordering the wetland/water body? No If yes, describe: \_\_\_\_\_

Additional Comments on Drainage \_\_\_\_\_

# Wetland Assessment Field Form--SJRWMD Constraint Wetland Project

PROJECT: Wetland @ Panama Circle SJRWMD SITE ID: #111 COUNTY: Seminole

OTHER LOCATION NOTES: \_\_\_\_\_

PERSONNEL : Bill Dunn and Bob Fewster DATE: 8/11/05 TIME: 10:30

GPS COORDINATES: Latitude : N 28 40.880 Longitude: W 81 18.782

## PHOTOGRAPHY

Roll: \_\_\_\_ Photo Frame #s: 3

Description of photo(s): 3 shots of swamp inside of oak hammock

## WATER LEVEL:

Water Depth: 0.5' in wetland Staff Gage or Piezometer Level (if present): \_\_\_\_

## VEGETATION

Major Vegetation Zones Present in Wetland or Water Body:  forested, \_\_\_\_ shrub scrub, \_\_\_\_ marsh, \_\_\_\_ aquatic, \_\_\_\_ pond, \_\_\_\_ lake, \_\_\_\_ other (list): \_\_\_\_\_

## HERBACEOUS GROUNDCOVER (% cover of OBL and/or FACW species to nearest 10%)

Zone 1: Composition: \_\_\_\_ Zone 2: Composition: \_\_\_\_

Dominant Groundcover Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: 10% except L

Zone 2: \_\_\_\_\_

Total % Groundcover: \_\_\_\_\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Osmunda cinnamomea Peltandra

Species/1/2/3/4/5: Blechnum \_\_\_\_\_

Species/1/2/3/4/5: Osmunda regalis \_\_\_\_\_

Species/1/2/3/4/5: duck weed \_\_\_\_\_

Species/1/2/3/4/5: poison ivy \_\_\_\_\_

Groundcover Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal groundcover zonation; 2) Somewhat abnormal zonation - some signs of abnormal groundcover zonation mainly limited to the wetland edge;  Normal groundcover zonation.

Additional Comments on Groundcover \_\_\_\_\_

## NUISANCE/WEEDY GROUNDCOVER

Composition--Circle the appropriate category: 1) > 50% of all groundcover species cover is weeds; 2) > 10% and < 50% of all groundcover species cover is weeds (either dispersed throughout wetland or in dense localized patches);  < 10% of all groundcover species cover is weeds or weeds are absent.

Additional Comments on Weedy Species none

## SHRUB

Composition \_\_\_\_ % cover OBL and/or FACW shrub species to nearest 10%

Dominant Shrub Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: 75%

Zone 2: \_\_\_\_\_

Total % Shrub cover: \_\_\_\_\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Button bush \_\_\_\_\_

Species/1/2/3/4/5: Salix Cornus foemina vitis

Species/1/2/3/4/5: Acer \_\_\_\_\_

Species/1/2/3/4/5: Liquidambar \_\_\_\_\_

Shrub and Small Tree Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal shrub and tree zonation; 2) Somewhat abnormal zonation - some signs of abnormal shrub and tree zonation mainly limited to the wetland edge;  Normal shrub and tree zonation.

Additional Comments on Shrubs \_\_\_\_\_

**WEEDY SHRUB**

**Composition** --Circle the appropriate category: 1) > 50% of all shrub species cover is weeds; 2) > 10% and < 50% of all shrub species cover is (either dispersed throughout the wetland or in dense localized patches); 3) < 10% of all shrub species cover is weeds or weeds are absent.

Additional Comments on Weedy Shrubs \_\_\_\_\_

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**CANOPY (TREE)**

**Dominant Canopy Species Cover Classes** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: 50% Zone 2: \_\_\_\_\_

Total % Canopy Cover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Taxodium distichum \_\_\_\_\_

Species/1/2/3/4/5: Sabal \_\_\_\_\_

Species/1/2/3/4/5: Acer \_\_\_\_\_

Species/1/2/3/4/5: Nyssa \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

**Tree Zonation**--Circle the appropriate category: 1) Abnormal zonation – multiple signs of abnormal distribution and cover; 2) Somewhat abnormal zonation with moderately abnormal distribution and cover; 3) Normal zonation with normal distribution and cover.

Additional Comments on Tree Species \_\_\_\_\_

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**AQUATIC—surface water covered with duckweed**

**Dominant Aquatic Species % Cover Categories:** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: 80% Zone 2: \_\_\_\_\_

Total % Aquatic Plant Cover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Lemna \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

**Aquatic Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal plant zonation; 2) Somewhat abnormal zonation - some signs of abnormal zonation; 3) Normal aquatic plant zonation

Additional Comments on Aquatic Species: \_\_\_\_\_



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## PLANT COMMUNITY HEALTH

Does community show unusual signs of stress? Yes Visually estimate % of wetland zone exhibiting signs of stress; \_\_\_\_\_

Type of stress observed (e.g., dead or dying plants, discolored foliage, wilted or rolled leaves, premature leaf fall or senescence, etc.): \_\_\_\_\_

Does stress appear moisture related, or is there sign of disease or insect injury? storm damage to maples \_\_\_\_\_

**Overall Condition of Plant Community is:**

Circle Appropriate Category: **1)** Plants are dead or dying; **2)** poor vigor with obvious decline (foliage discolored, wilted, premature leaf fall) ; **3)** fair vigor, some signs of stress or decline; **4)** medium vigor, some yellow-green foliage, or signs of leaf wilt or leaf curling; **5)** appearance good, foliage green but foliage thin, less than normal growth for the season; **6)** excellent vigor, foliage green in color, normal growth for the season.

**Additional Comments on Health:** Maples have been injured by hurricanes \_\_\_\_\_

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## HYDIC SOILS

Look for signs of subsidence, oxidation or abnormal desiccation and select the category which best describes the current conditions of the wetland soils. This assessment may not be applicable (NA) if site is inundated.

Circle Appropriate Category: **1)** Substantial subsidence/oxidation; **2)** Moderate subsidence/oxidation; **3)** Little or no evidence of subsidence/oxidation

Circle Appropriate Soil Condition: **1)** Inundated, **2)** Saturated, **3)** Moist, **4)** Dry

**Additional Comments on Soil** exposed root crown, 6-9" , Triplet lake wetland site nearby \_\_\_\_\_

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## HYDROLOGY

**Current Water Level Indicators** (e.g., mosses, lichens, stains)

Estimated depth of water relative to high water marks or indicators: 6-9" describe type of indicator: \_\_\_\_\_

Circle the Appropriate Category: **1)** None of these indicators are present or indicators are at ground level; **2)** Indicators present; however, indistinct or abnormally low in comparison to the historic normal pool; **3)** Indicators are distinct and at the appropriate level for the season.

**Additional Comments on Hydrology** current high water = 6-9" above current \_\_\_\_\_

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## WILDLIFE AND LISTED SPECIES

**Listed Flora and Fauna Observed** (Include activity information for fauna)

**Wetland-Dependent Fauna Observed:**

Activity codes (M = mating, F = foraging, FT = flyover/traveling; N = nesting, OT = other)

Observation codes (O = observed, S = sign [scat, tracks, call or other signs of presence])

## GENERAL SITE DESCRIPTION CATEGORIES

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### Habitat Gradient

Circle Appropriate Category: **1)** full habitat gradient present from aquatic/wetland up gradient to native upland habitat; **2)** native upland habitat is present along 50-75% of perimeter; **3)** native upland habitat is present along 25-50% of perimeter; **4)** native upland habitat is present along less than 25% of perimeter.

Additional Comments on Habitat Gradient oak hammock 100+ m wide

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### Habitat Quality

Circle Appropriate Category: **1)** habitats present are in relatively natural condition in terms of community structure and plant species composition; **2)** habitats are in degraded condition in terms of community structure and plant species composition ; **3)** habitats are in severely degraded condition in terms of community structure and plant species composition.

Additional Comments on Habitat Quality \_\_\_\_\_

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### Hydrology and Landscape Position

Circle Appropriate Category: **1)** wetland/aquatic system is isolated, with no regular surface water inflow or outflow; **2)** system has surface water inflow or outflow only at high water condition; **3)** system is flow-through with surface water inflow and outflow.

Additional Comments on Landscape Position: \_\_\_\_\_

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### Storm Water Inflows and Outflows

Circle Appropriate Category: **1)** no significant adverse effects to habitat, hydrologic regime, or water quality due to inflow of stormwater system; **2)** habitat conditions are generally good, but adverse effects to habitat, hydrologic regime, or water quality are evident due to inflow stormwater inflows; **3)** ) habitat conditions are degraded by adverse effects of stormwater inflows.

Additional Comments on Surface Water \_\_\_\_\_

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### Shoreline Development

Circle Appropriate Category: **1)** less than 10% of shoreline/perimeter is developed; **2)** 10 to 30% of shoreline/perimeter is developed; **3)** 30 to 60% of shoreline/perimeter is developed; **4)** greater than 60% of shoreline/perimeter is developed.

Additional Comments on Shoreline: oak hammock

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### Land Protection

Circle Appropriate Category: **1)** site and surrounding lands are in public ownership, or land use is limited to conservation/preservation; **2)** some but not all site and surrounding lands are in public ownership, or protected by easement ; **3)** site and surrounding lands are in not public ownership, nor protected by easement.

Additional Comments on Land Protection \_\_\_\_\_

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### Site Disturbance

Circle Appropriate Category: **1)** less than 10% wetland/water body recent land clearance or disturbance; **2)** 10 to 30% of wetland/water body is affected by recent land disturbance; **3)** 30 to 60% of wetland/water body is affected by recent land disturbance; **4)** greater than 60% of wetland/water body is affected by recent land disturbance.

Circle Appropriate Category: **1)** less than 10% uplands adjacent wetland/water body affected by recent land clearance or disturbance; **2)** 10 to 30% of upland is affected by recent land disturbance; **3)** 30 to 60% of upland is affected by recent land disturbance; **4)** greater than 60% of upland is affected by recent land disturbance.

Additional Comments on Land Disturbance \_\_\_\_\_

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### Drainage Alteration

Are significant drainage features present on the site? no If yes, describe: \_\_\_\_\_

Are there significant drainage features on lands bordering the wetland/water body? No If yes, describe: \_\_\_\_\_  
photo's \_\_\_\_\_

Additional Comments on Drainage \_\_\_\_\_

# Wetland Assessment Field Form--SJRWMD Constraint Wetland Project

PROJECT: Horseshoe Lake SJRWMD SITE ID: #123 COUNTY: Orange

OTHER LOCATION NOTES: @ bend in County Road 561

PERSONNEL: Bill Dunn and Bob Fewster DATE: 8/24/05 TIME: 15:00

GPS COORDINATES: Latitude: N 28 38.253 Longitude: W 81 44.881 @road

## PHOTOGRAPHY

Roll: \_\_\_\_\_ Photo Frame #s: 2 from road

Description of photo(s): NE corner of lake from Ponka Road

## WATER LEVEL

Water Depth: \_\_\_\_\_ Staff Gage or Piezometer Level (if present): \_\_\_\_\_

## VEGETATION .....complex of marsh and open water

Major Vegetation Zones Present in Wetland or Water Body: forested, shrub scrub, X marsh, aquatic,  
pond, X lake, other (list): open water 70%

## HERBACEOUS GROUNDCOVER (% cover of OBL and/or FACW species to nearest 10%)

Zone 1: Composition: \_\_\_\_\_ Zone 2: Composition: \_\_\_\_\_

Dominant Groundcover Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: 20 - 25% Zone 2: \_\_\_\_\_

Total % Groundcover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Maidencane \_\_\_\_\_

Species/1/2/3/4/5: Red Root \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Groundcover Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal groundcover zonation; 2) Somewhat abnormal zonation - some signs of abnormal groundcover zonation mainly limited to the wetland edge; 3) Normal groundcover zonation.

Additional Comments on Groundcover \_\_\_\_\_

## NUISANCE/WEEDY GROUNDCOVER

Composition--Circle the appropriate category: 1) > 50% of all groundcover species cover is weeds; 2) > 10% and < 50% of all groundcover species cover is weeds (either dispersed throughout wetland or in dense localized patches); 3) < 10% of all groundcover species cover is weeds or weeds are absent.

Additional Comments on Weedy Species \_\_\_\_\_

## SHRUB

Composition \_\_\_\_\_ % cover OBL and/or FACW shrub species to nearest 10%

Dominant Shrub Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: 5% Zone 2: \_\_\_\_\_

Total % Shrub cover: scattered shrub Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Cephalanthus occidentalis \_\_\_\_\_

Species/1/2/3/4/5: Hypericum fasciculatum \_\_\_\_\_

Species/1/2/3/4/5: Ilex cassine \_\_\_\_\_

Species/1/2/3/4/5: dead Hypericum water level came up \_\_\_\_\_

Shrub and Small Tree Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal shrub and tree zonation; 2) Somewhat abnormal zonation - some signs of abnormal shrub and tree zonation mainly limited to the wetland edge; 3) Normal shrub and tree zonation.



Additional Comments on Shrubs \_\_\_\_\_

**WEEDY SHRUB**

**Composition** --Circle the appropriate category: 1) > 50% of all shrub species cover is weeds; 2) > 10% and < 50% of all shrub species cover is (either dispersed throughout the wetland or in dense localized patches); 3) < 10% of all shrub species cover is weeds or weeds are absent.

Additional Comments on Weedy Shrubs \_\_\_\_\_

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**CANOPY (TREE)**

**Dominant Canopy Species Cover Classes** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Canopy Cover: Scattered trees on edge \_\_\_\_\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: Willow \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: Ilex cassine \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Tree Zonation**--Circle the appropriate category: 1) Abnormal zonation – multiple signs of abnormal distribution and cover; 2) Somewhat abnormal zonation with moderately abnormal distribution and cover; 3) Normal zonation with normal distribution and cover.

Additional Comments on Tree Species \_\_\_\_\_

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**AQUATIC.....not applicable, no aquatic zone present**

**Dominant Aquatic Species % Cover Categories:** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Aquatic Plant Cover: \_\_\_\_\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Aquatic Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal plant zonation; 2) Somewhat abnormal zonation - some signs of abnormal zonation; 3) Normal aquatic plant zonation

**Additional Comments on Aquatic Species:**

Pasture \_\_\_\_\_

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## PLANT COMMUNITY HEALTH

Does community show unusual signs of stress? No. Visually estimate % of wetland zone exhibiting signs of stress; \_\_\_\_\_

Type of stress observed (e.g., dead or dying plants, discolored foliage, wilted or rolled leaves, premature leaf fall or senescence, etc.): \_\_\_\_\_

Does stress appear moisture related, or is there sign of disease or insect injury? \_\_\_\_\_

**Overall Condition of Plant Community is:**

Circle Appropriate Category: **1)** Plants are dead or dying; **2)** poor vigor with obvious decline (foliage discolored, wilted, premature leaf fall) ; **3)** fair vigor, some signs of stress or decline; **4)** medium vigor, some yellow-green foliage, or signs of leaf wilt or leaf curling; **5)** appearance good, foliage green but foliage thin, less than normal growth for the season; **6)** excellent vigor, foliage green in color, normal growth for the season.

**Additional Comments on Health** Hypericum die back with water level rise

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## HYDIC SOILS

Look for signs of subsidence, oxidation or abnormal desiccation and select the category which best describes the current conditions of the wetland soils. This assessment may not be applicable (NA) if site is inundated.

Circle Appropriate Category: **1)** Substantial subsidence/oxidation; **2)** Moderate subsidence/oxidation; **3)** Little or no evidence of subsidence/oxidation

Circle Appropriate Soil Condition: **1)** Inundated, **2)** Saturated, **3)** Moist, **4)** Dry

**Additional Comments on Soil** \_\_\_\_\_

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## HYDROLOGY

**Current Water Level Indicators** (e.g., mosses, lichens, stains)

Estimated depth of water relative to high water marks or indicators: \_\_\_\_\_; describe type of indicator: \_\_\_\_\_

Circle the Appropriate Category: **1)** None of these indicators are present or indicators are at ground level; **2)** Indicators present; however, indistinct or abnormally low in comparison to the historic normal pool; **3)** Indicators are distinct and at the appropriate level for the season.

**Additional Comments on Hydrology** recent rise in level of water has stressed the Hypericum; water w/in 1' of high

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## WILDLIFE AND LISTED SPECIES

**Listed Flora and Fauna Observed** (Include activity information for fauna)

**Wetland-Dependent Fauna Observed:**

Activity codes (M = mating, F = foraging, FT = flyover/traveling; N = nesting, OT = other)

Observation codes (O = observed, S = sign [scat, tracks, call or other signs of presence])

## GENERAL SITE DESCRIPTION CATEGORIES

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### Habitat Gradient

Circle Appropriate Category: **1)** full habitat gradient present from aquatic/wetland up gradient to native upland habitat; **2)** native upland habitat is present along 50-75% of perimeter; **3)** native upland habitat is present along 25-50% of perimeter; **4)** native upland habitat is present along less than 25% of perimeter.

Additional Comments on Habitat Gradient \_\_\_\_\_

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### Habitat Quality

Circle Appropriate Category: **1)** habitats present are in relatively natural condition in terms of community structure and plant species composition; **2)** habitats are in degraded condition in terms of community structure and plant species composition ; **3)** habitats are in severely degraded condition in terms of community structure and plant species composition.

Additional Comments on Habitat Quality \_\_\_\_\_

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### Hydrology and Landscape Position

Circle Appropriate Category: **1)** wetland/aquatic system is isolated, with no regular surface water inflow or outflow; **2)** system has surface water inflow or outflow only at high water condition; **3)** system is flow-through with surface water inflow and outflow.

Additional Comments on Landscape Position: high water connected to other lake \_\_\_\_\_

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### Storm Water Inflows and Outflows

Circle Appropriate Category: **1)** no significant adverse effects to habitat, hydrologic regime, or water quality due to inflow of stormwater system; **2)** habitat conditions are generally good, but adverse effects to habitat, hydrologic regime, or water quality are evident due to inflow stormwater inflows; **3)** ) habitat conditions are degraded by adverse effects of stormwater inflows.

Additional Comments on Surface Water \_\_\_\_\_

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### Shoreline Development

Circle Appropriate Category: **1)** less than 10% of shoreline/perimeter is developed; **2)** 10 to 30% of shoreline/perimeter is developed; **3)** 30 to 60% of shoreline/perimeter is developed; **4)** greater than 60% of shoreline/perimeter is developed.

Additional Comments on Shoreline pasture on part \_\_\_\_\_

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### Land Protection

Circle Appropriate Category: **1)** site and surrounding lands are in public ownership, or land use is limited to conservation/preservation; **2)** some but not all site and surrounding lands are in public ownership, or protected by easement ; **3)** site and surrounding lands are in not public ownership, nor protected by easement.

Additional Comments on Land Protection \_\_\_\_\_

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### Site Disturbance

Circle Appropriate Category: **1)** less than 10% wetland/water body recent land clearance or disturbance; **2)** 10 to 30% of wetland/water body is affected by recent land disturbance; **3)** 30 to 60% of wetland/water body is affected by recent land disturbance; **4)** greater than 60% of wetland/water body is affected by recent land disturbance.

Circle Appropriate Category: **1)** less than 10% uplands adjacent wetland/water body affected by recent land clearance or disturbance; **2)** 10 to 30% of upland is affected by recent land disturbance; **3)** 30 to 60% of upland is affected by recent land disturbance; **4)** greater than 60% of upland is affected by recent land disturbance.

Additional Comments on Land Disturbance \_\_\_\_\_ 0% \_\_\_\_\_

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### Drainage Alteration

Are significant drainage features present on the site? No If yes, describe: \_\_\_\_\_

Are there significant drainage features on lands bordering the wetland/water body? No If yes, describe: \_\_\_\_\_

Additional Comments on Drainage \_\_\_\_\_

# Wetland Assessment Field Form--SJRWMD Constraint Wetland Project

PROJECT: Lake Mills SJRWMD SITE ID: #126 COUNTY: Seminole

OTHER LOCATION NOTES: At the swimming beach at Lake Mills Park

PERSONNEL: Bill Dunn and Bob Fewster DATE: 8/10/05 TIME: 13:40

GPS COORDINATES: Latitude: N 28 37.958 Longitude: W 81 07.306

## PHOTOGRAPHY

Roll: \_\_\_\_\_ Photo Frame #s: 2 shots @ edge of beach

Description of photo(s): Same site visited w/ Lorne Malo

## WATER LEVEL

Water Depth: \_\_\_\_\_ Staff Gage or Piezometer Level (if present): \_\_\_\_\_

## VEGETATION .....mostly open water w/cypress forest fringe

Major Vegetation Zones Present in Wetland or Water Body: X forested, \_\_\_\_\_ shrub scrub, \_\_\_\_\_ marsh, \_\_\_\_\_ aquatic, \_\_\_\_\_ pond, X lake, \_\_\_\_\_ other (list): \_\_\_\_\_

## HERBACEOUS GROUNDCOVER (% cover of OBL and/or FACW species to nearest 10%)

Zone 1: Composition: \_\_\_\_\_ Zone 2: Composition: \_\_\_\_\_

Dominant Groundcover Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: little Zone 2: \_\_\_\_\_

Total % Groundcover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Torpedo grass \_\_\_\_\_

Species/1/2/3/4/5: Typha latifolia \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Groundcover Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal groundcover zonation; 2) Somewhat abnormal zonation - some signs of abnormal groundcover zonation mainly limited to the wetland edge; 3) Normal groundcover zonation.

Additional Comments on Groundcover scattered areas w/ fringe of emergents

## NUISANCE/WEEDY GROUNDCOVER

Composition--Circle the appropriate category: 1) > 50% of all groundcover species cover is weeds; 2) > 10% and < 50% of all groundcover species cover is weeds (either dispersed throughout wetland or in dense localized patches); 3) < 10% of all groundcover species cover is weeds or weeds are absent.

Additional Comments on Weedy Species \_\_\_\_\_

## SHRUB

Composition \_\_\_\_\_ % cover OBL and/or FACW shrub species to nearest 10%

Dominant Shrub Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_

Total % Shrub cover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Myrica cerifera \_\_\_\_\_

Species/1/2/3/4/5: Toxicodendron \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Shrub and Small Tree Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal shrub and tree zonation; 2) Somewhat abnormal zonation - some signs of abnormal shrub and tree zonation mainly limited to the wetland edge; 3) Normal shrub and tree zonation.



Additional Comments on Shrubs \_\_\_\_\_

**WEEDY SHRUB**

**Composition** --Circle the appropriate category: 1) > 50% of all shrub species cover is weeds; 2) > 10% and < 50% of all shrub species cover is (either dispersed throughout the wetland or in dense localized patches); 3) < 10% of all shrub species cover is weeds or weeds are absent.

Additional Comments on Weedy Shrubs \_\_\_\_\_

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**CANOPY (TREE)**

**Dominant Canopy Species Cover Classes** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: scattered bands of trees \_\_ Zone 2: \_\_\_\_\_

Total % Canopy Cover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Bald cypress fringe on parts of lake \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

**Tree Zonation**--Circle the appropriate category: 1) Abnormal zonation – multiple signs of abnormal distribution and cover; 2) Somewhat abnormal zonation with moderately abnormal distribution and cover; 3) Normal zonation with normal distribution and cover.

Additional Comments on Tree Species upland pine oak present as upland in the park \_\_\_\_\_

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**AQUATIC—none visible**

**Dominant Aquatic Species % Cover Categories:** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_

Total % Aquatic Plant Cover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

**Aquatic Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal plant zonation; 2) Somewhat abnormal zonation - some signs of abnormal zonation; 3) Normal aquatic plant zonation

Additional Comments on Aquatic Species: \_\_\_\_\_

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## PLANT COMMUNITY HEALTH

Does community show unusual signs of stress? No. Visually estimate % of wetland zone exhibiting signs of stress; \_\_\_\_\_

Type of stress observed (e.g., dead or dying plants, discolored foliage, wilted or rolled leaves, premature leaf fall or senescence, etc.): \_\_\_\_\_

Does stress appear moisture related, or is there sign of disease or insect injury? \_\_\_\_\_

**Overall Condition of Plant Community is:**

Circle Appropriate Category: **1)** Plants are dead or dying; **2)** poor vigor with obvious decline (foliage discolored, wilted, premature leaf fall) ; **3)** fair vigor, some signs of stress or decline; **4)** medium vigor, some yellow-green foliage, or signs of leaf wilt or leaf curling; **5)** appearance good, foliage green but foliage thin, less than normal growth for the season; **6)** excellent vigor, foliage green in color, normal growth for the season.

**Additional Comments on Health** No signs of stress

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## HYDIC SOILS

Look for signs of subsidence, oxidation or abnormal desiccation and select the category which best describes the current conditions of the wetland soils. This assessment may not be applicable (NA) if site is inundated.

Circle Appropriate Category: **1)** Substantial subsidence/oxidation; **2)** Moderate subsidence/oxidation; **3)** Little or no evidence of subsidence/oxidation

Circle Appropriate Soil Condition: **1)** Inundated, **2)** Saturated, **3)** Moist, **4)** Dry

**Additional Comments on Soil** \_\_\_\_\_

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## HYDROLOGY

**Current Water Level Indicators** (e.g., mosses, lichens, stains)

Estimated depth of water relative to high water marks or indicators: \_\_\_\_\_; describe type of indicator: \_\_\_\_\_

Circle the Appropriate Category: **1)** None of these indicators are present or indicators are at ground level; **2)** Indicators present; however, indistinct or abnormally low in comparison to the historic normal pool; **3)** Indicators are distinct and at the appropriate level for the season.

**Additional Comments on Hydrology** high water marks @ 0.5 below normal high

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## WILDLIFE AND LISTED SPECIES

**Listed Flora and Fauna Observed** (Include activity information for fauna)

**Wetland-Dependent Fauna Observed:**

Activity codes (M = mating, F = foraging, FT = flyover/traveling; N = nesting, OT = other)

Observation codes (O = observed, S = sign [scat, tracks, call or other signs of presence])

## GENERAL SITE DESCRIPTION CATEGORIES

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### Habitat Gradient

Circle Appropriate Category: **1)** full habitat gradient present from aquatic/wetland up gradient to native upland habitat; **2)** native upland habitat is present along 50-75% of perimeter; **3)** native upland habitat is present along 25-50% of perimeter; **4)** native upland habitat is present along less than 25% of perimeter.

Additional Comments on Habitat Gradient check the aerial photos

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### Habitat Quality

Circle Appropriate Category: **1)** habitats present are in relatively natural condition in terms of community structure and plant species composition; **2)** habitats are in degraded condition in terms of community structure and plant species composition ; **3)** habitats are in severely degraded condition in terms of community structure and plant species composition.

Additional Comments on Habitat Quality \_\_\_\_\_

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### Hydrology and Landscape Position

Circle Appropriate Category: **1)** wetland/aquatic system is isolated, with no regular surface water inflow or outflow; **2)** system has surface water inflow or outflow only at high water condition; **3)** system is flow-through with surface water inflow and outflow.

Additional Comments on Landscape Position: inflow & outflow

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### Storm Water Inflows and Outflows

Circle Appropriate Category: **1)** no significant adverse effects to habitat, hydrologic regime, or water quality due to inflow of stormwater system; **2)** habitat conditions are generally good, but adverse effects to habitat, hydrologic regime, or water quality are evident due to inflow stormwater inflows; **3)** ) habitat conditions are degraded by adverse effects of stormwater inflows.

Additional Comments on Surface Water \_\_\_\_\_

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### Shoreline Development

Circle Appropriate Category: **1)** less than 10% of shoreline/perimeter is developed; **2)** 10 to 30% of shoreline/perimeter is developed; **3)** 30 to 60% of shoreline/perimeter is developed; **4)** greater than 60% of shoreline/perimeter is developed.

Additional Comments on Shoreline: check aerial

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### Land Protection

Circle Appropriate Category: **1)** site and surrounding lands are in public ownership, or land use is limited to conservation/preservation; **2)** some but not all site and surrounding lands are in public ownership, or protected by easement ; **3)** site and surrounding lands are in not public ownership, nor protected by easement.

Additional Comments on Land Protection Lake Mills Park

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### Site Disturbance

Circle Appropriate Category: **1)** less than 10% wetland/water body recent land clearance or disturbance; **2)** 10 to 30% of wetland/water body is affected by recent land disturbance; **3)** 30 to 60% of wetland/water body is affected by recent land disturbance; **4)** greater than 60% of wetland/water body is affected by recent land disturbance.

Circle Appropriate Category: **1)** less than 10% uplands adjacent wetland/water body affected by recent land clearance or disturbance; **2)** 10 to 30% of upland is affected by recent land disturbance; **3)** 30 to 60% of upland is affected by recent land disturbance; **4)** greater than 60% of upland is affected by recent land disturbance.

Additional Comments on Land Disturbance some new development adjacent to park

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### Drainage Alteration

Are significant drainage features present on the site? No If yes, describe: \_\_\_\_\_

Are there significant drainage features on lands bordering the wetland/water body? No If yes, describe: \_\_\_\_\_  
photo's \_\_\_\_\_

Additional Comments on Drainage \_\_\_\_\_

# Wetland Assessment Field Form--SJRWMD Constraint Wetland Project

PROJECT: Lake Pearl SJRWMD SITE ID: #131 COUNTY: Orange

OTHER LOCATION NOTES: Site visited

PERSONNEL : Bill Dunn and Bob Fewster DATE: 8/10/05 TIME: 12:30

GPS COORDINATES: Latitude : N 28 36.105 Longitude: W 81 16.017

## PHOTOGRAPHY

Roll: \_\_\_\_\_ Photo Frame #s: 5 shots: 1-boat ramp, 4-panarama

Description of photo(s): dock & boardwalks just barely out of water

## WATER LEVEL:

Water Depth: water @ high water mark Staff Gage or Piezometer Level (if present): 10.16

## VEGETATION.....mostly open water

Major Vegetation Zones Present in Wetland or Water Body: \_\_\_\_\_ forested, \_\_\_\_\_ shrub scrub, \_\_\_\_\_ marsh, \_\_\_\_\_ aquatic, \_\_\_\_\_ pond, X lake, \_\_\_\_\_ other (list): \_\_\_\_\_

## HERBACEOUS GROUNDCOVER (% cover of OBL and/or FACW species to nearest 10%)

Zone 1: Composition: \_\_\_\_\_ Zone 2: Composition: \_\_\_\_\_ lit zone

Dominant Groundcover Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_

Total % Groundcover: narrow littoral fringe Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Torpedograss Typha latifolia

Species/1/2/3/4/5: Colocasia \_\_\_\_\_

Species/1/2/3/4/5: Nuphar \_\_\_\_\_

Species/1/2/3/4/5: Nymphaea \_\_\_\_\_

Species/1/2/3/4/5: Sagittaria \_\_\_\_\_

Groundcover Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal groundcover zonation; 2) Somewhat abnormal zonation - some signs of abnormal groundcover zonation mainly limited to the wetland edge; 3) Normal groundcover zonation.

Additional Comments on Groundcover \_\_\_\_\_

## NUISANCE/WEEDY GROUNDCOVER

Composition--Circle the appropriate category: 1) > 50% of all groundcover species cover is weeds; 2) > 10% and < 50% of all groundcover species cover is weeds (either dispersed throughout wetland or in dense localized patches); 3) < 10% of all groundcover species cover is weeds or weeds are absent.

Additional Comments on Weedy Species \_\_\_\_\_

## SHRUB--shrub scattered in emergent littoral zone

Composition \_\_\_\_\_ % cover OBL and/or FACW shrub species to nearest 10%

Dominant Shrub Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_

Total % Shrub cover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Lugwigia peruviana \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Shrub and Small Tree Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal shrub and tree zonation; 2) Somewhat abnormal zonation - some signs of abnormal shrub and tree zonation mainly limited to the wetland edge; 3) Normal shrub and tree zonation.



Additional Comments on Shrubs \_\_\_\_\_

**WEEDY SHRUB**

**Composition** --Circle the appropriate category: 1) > 50% of all shrub species cover is weeds; 2) > 10% and < 50% of all shrub species cover is (either dispersed throughout the wetland or in dense localized patches); 3) < 10% of all shrub species cover is weeds or weeds are absent.

Additional Comments on Weedy Shrubs \_\_\_\_\_

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**CANOPY (TREE)--no wetland treed border, residual stretch of pine (see photo)**

**Dominant Canopy Species Cover Classes** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_

Total % Canopy Cover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

**Tree Zonation**--Circle the appropriate category: 1) Abnormal zonation – multiple signs of abnormal distribution and cover; 2) Somewhat abnormal zonation with moderately abnormal distribution and cover; 3) Normal zonation with normal distribution and cover.

Additional Comments on Tree Species \_\_\_\_\_

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**AQUATIC.....litt fringe**

**Dominant Aquatic Species % Cover Categories:** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_

Total % Aquatic Plant Cover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Nymphaea \_\_\_\_\_

Species/1/2/3/4/5: Nuphar \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

**Aquatic Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal plant zonation; 2) Somewhat abnormal zonation - some signs of abnormal zonation; 3) Normal aquatic plant zonation

Additional Comments on Aquatic Species: \_\_\_\_\_

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## PLANT COMMUNITY HEALTH

Does community show unusual signs of stress? \_\_\_\_ Visually estimate % of wetland zone exhibiting signs of stress; \_\_\_\_\_

Type of stress observed (e.g., dead or dying plants, discolored foliage, wilted or rolled leaves, premature leaf fall or senescence, etc.): \_\_\_\_\_

Does stress appear moisture related, or is there sign of disease or insect injury? \_\_\_\_\_

### Overall Condition of Plant Community is:

Circle Appropriate Category: **1)** Plants are dead or dying; **2)** poor vigor with obvious decline (foliage discolored, wilted, premature leaf fall) ; **3)** fair vigor, some signs of stress or decline; **4)** medium vigor, some yellow-green foliage, or signs of leaf wilt or leaf curling; **5)** appearance good, foliage green but foliage thin, less than normal growth for the season; **6)** excellent vigor, foliage green in color, normal growth for the season.

Additional Comments on Health: \_\_\_ scattering of dead pines, many tall \_\_\_

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## HYDIC SOILS

Look for signs of subsidence, oxidation or abnormal desiccation and select the category which best describes the current conditions of the wetland soils. This assessment may not be applicable (NA) if site is inundated.

Circle Appropriate Category: **1)** Substantial subsidence/oxidation; **2)** Moderate subsidence/oxidation; **3)** Little or no evidence of subsidence/oxidation

Circle Appropriate Soil Condition: **1)** Inundated, **2)** Saturated, **3)** Moist, **4)** Dry

Additional Comments on Soil \_\_\_\_\_

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## HYDROLOGY.....water stains – water @ high level, many docks just above water

Current Water Level Indicators (e.g., mosses, lichens, stains)—staff gage

Estimated depth of water relative to high water marks or indicators: \_\_\_\_\_; describe type of indicator: \_\_\_\_\_

Circle the Appropriate Category: **1)** None of these indicators are present or indicators are at ground level; **2)** Indicators present; however, indistinct or abnormally low in comparison to the historic normal pool; **3)** Indicators are distinct and at the appropriate level for the season.

Additional Comments on Hydrology \_\_\_ stain lines on docks barely out of water, staff gage @ 10.16. \_\_\_\_\_

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## WILDLIFE AND LISTED SPECIES

Listed Flora and Fauna Observed (Include activity information for fauna)

### Wetland-Dependent Fauna Observed:

Activity codes (M = mating, F = foraging, FT = flyover/traveling; N = nesting, OT = other)

Observation codes (O = observed, S = sign [scat, tracks, call or other signs of presence])

## GENERAL SITE DESCRIPTION CATEGORIES

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### Habitat Gradient

Circle Appropriate Category: **1)** full habitat gradient present from aquatic/wetland up gradient to native upland habitat; **2)** native upland habitat is present along 50-75% of perimeter; **3)** native upland habitat is present along 25-50% of perimeter; **4)** native upland habitat is present along less than 25% of perimeter.

Additional Comments on Habitat Gradient \_\_\_\_\_

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### Habitat Quality

Circle Appropriate Category: **1)** habitats present are in relatively natural condition in terms of community structure and plant species composition; **2)** habitats are in degraded condition in terms of community structure and plant species composition ; **3)** habitats are in severely degraded condition in terms of community structure and plant species composition.

Additional Comments on Habitat Quality some large patches of weedy, exotic \_\_\_\_\_

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### Hydrology and Landscape Position

Circle Appropriate Category: **1)** wetland/aquatic system is isolated, with no regular surface water inflow or outflow; **2)** system has surface water inflow or outflow only at high water condition; **3)** system is flow-through with surface water inflow and outflow.

Additional Comments on Landscape Position: \_\_\_\_\_

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### Storm Water Inflows and Outflows

Circle Appropriate Category: **1)** no significant adverse effects to habitat, hydrologic regime, or water quality due to inflow of stormwater system; **2)** habitat conditions are generally good, but adverse effects to habitat, hydrologic regime, or water quality are evident due to inflow stormwater inflows; **3)** habitat conditions are degraded by adverse effects of stormwater inflows.

Additional Comments on Surface Water \_\_\_\_\_

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### Shoreline Development

Circle Appropriate Category: **1)** less than 10% of shoreline/perimeter is developed; **2)** 10 to 30% of shoreline/perimeter is developed; **3)** 30 to 60% of shoreline/perimeter is developed; **4)** greater than 60% of shoreline/perimeter is developed.

Additional Comments on Shoreline: \_\_\_\_\_

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### Land Protection

Circle Appropriate Category: **1)** site and surrounding lands are in public ownership, or land use is limited to conservation/preservation; **2)** some but not all site and surrounding lands are in public ownership, or protected by easement ; **3)** site and surrounding lands are in not public ownership, nor protected by easement.

Additional Comments on Land Protection \_\_\_\_\_

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### Site Disturbance.....none

Circle Appropriate Category: **1)** less than 10% wetland/water body recent land clearance or disturbance; **2)** 10 to 30% of wetland/water body is affected by recent land disturbance; **3)** 30 to 60% of wetland/water body is affected by recent land disturbance; **4)** greater than 60% of wetland/water body is affected by recent land disturbance.

Circle Appropriate Category: **1)** less than 10% uplands adjacent wetland/water body affected by recent land clearance or disturbance; **2)** 10 to 30% of upland is affected by recent land disturbance; **3)** 30 to 60% of upland is affected by recent land disturbance; **4)** greater than 60% of upland is affected by recent land disturbance.

Additional Comments on Land Disturbance \_\_\_\_\_

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### Drainage Alteration

Are significant drainage features present on the site? No If yes, describe: \_\_\_\_\_

Are there significant drainage features on lands bordering the wetland/water body? No If yes, describe: \_\_\_\_\_  
photo's \_\_\_\_\_

Additional Comments on Drainage \_\_\_\_\_

# Wetland Assessment Field Form--SJRWMD Constraint Wetland Project

PROJECT: Lake Irma SJRWMD SITE ID: #132 COUNTY: Orange

OTHER LOCATION NOTES: From Econ Trail on East side of lake

PERSONNEL: Bill Dunn and Bob Fewster DATE: 8/10/05 TIME: 13:00

GPS COORDINATES: Latitude: N 28 35.697 Longitude: W 81 15.705

## PHOTOGRAPHY

Roll: \_\_\_\_\_ Photo Frame #: pan of 3 shots

Description of photo(s): floating mats & open water

## WATER LEVEL

Water Depth: w/in 0.5-1.0' of top of boat docks Staff Gage or Piezometer Level (if present): \_\_\_\_\_

## VEGETATION .....lake, open water mostly

Major Vegetation Zones Present in Wetland or Water Body: \_\_\_\_\_ forested, \_\_\_\_\_ shrub scrub, \_\_\_\_\_ marsh, \_\_\_\_\_ aquatic, \_\_\_\_\_ pond, X lake, \_\_\_\_\_ other (list): \_\_\_\_\_

## HERBACEOUS GROUNDCOVER (% cover of OBL and/or FACW species to nearest 10%)

Zone 1: Composition: \_\_\_\_\_ Zone 2: Composition: \_\_\_\_\_ littoral fringe

Dominant Groundcover Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Groundcover: Littoral zone

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Maidencane

Eleocharis sp.

Species/1/2/3/4/5: Torpedograss

Pickerelweed

Species/1/2/3/4/5: Scirpus validus

Typha latifolia

Species/1/2/3/4/5: Thalia genic.

Species/1/2/3/4/5: Ludwigia peruviana

Groundcover Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal groundcover zonation; 2) Somewhat abnormal zonation - some signs of abnormal groundcover zonation mainly limited to the wetland edge; 3) Normal groundcover zonation.

Additional Comments on Groundcover occasional thick stands of cattail

## NUISANCE/WEEDY GROUNDCOVER

Composition--Circle the appropriate category: 1) > 50% of all groundcover species cover is weeds; 2) > 10% and < 50% of all groundcover species cover is weeds (either dispersed throughout wetland or in dense localized patches); 3) < 10% of all groundcover species cover is weeds or weeds are absent.

Additional Comments on Weedy Species see above

## SHRUB—not present

Composition \_\_\_\_\_ % cover OBL and/or FACW shrub species to nearest 10%

Dominant Shrub Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Shrub cover: \_\_\_\_\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Shrub and Small Tree Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal shrub and tree zonation; 2) Somewhat abnormal zonation - some signs of abnormal shrub and tree zonation mainly limited to the wetland edge; 3) Normal shrub and tree zonation.



Additional Comments on Shrubs \_\_\_\_\_

**WEEDY SHRUB**

**Composition** --Circle the appropriate category: 1) > 50% of all shrub species cover is weeds; 2) > 10% and < 50% of all shrub species cover is (either dispersed throughout the wetland or in dense localized patches); 3) < 10% of all shrub species cover is weeds or weeds are absent.

Additional Comments on Weedy Shrubs \_\_\_\_\_

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**CANOPY (TREE).....little to no forested, patch on South end as visible in aerial**

**Dominant Canopy Species Cover Classes** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Canopy Cover: \_\_\_\_\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Tree Zonation**--Circle the appropriate category: 1) Abnormal zonation – multiple signs of abnormal distribution and cover; 2) Somewhat abnormal zonation with moderately abnormal distribution and cover; 3) Normal zonation with normal distribution and cover.

Additional Comments on Tree Species \_\_\_\_\_

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**AQUATIC.....some water lily beds**

**Dominant Aquatic Species % Cover Categories:** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Aquatic Plant Cover: \_\_\_\_\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Aquatic Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal plant zonation; 2) Somewhat abnormal zonation - some signs of abnormal zonation; 3) Normal aquatic plant zonation

Additional Comments on Aquatic Species: \_\_\_\_\_

\_\_\_\_\_

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## PLANT COMMUNITY HEALTH

Does community show unusual signs of stress? No. Visually estimate % of wetland zone exhibiting signs of stress; \_\_\_\_\_

Type of stress observed (e.g., dead or dying plants, discolored foliage, wilted or rolled leaves, premature leaf fall or senescence, etc.): \_\_\_\_\_

Does stress appear moisture related, or is there sign of disease or insect injury? \_\_\_\_\_

**Overall Condition of Plant Community is:**

Circle Appropriate Category: **1)** Plants are dead or dying; **2)** poor vigor with obvious decline (foliage discolored, wilted, premature leaf fall) ; **3)** fair vigor, some signs of stress or decline; **4)** medium vigor, some yellow-green foliage, or signs of leaf wilt or leaf curling; **5)** appearance good, foliage green but foliage thin, less than normal growth for the season; **6)** excellent vigor, foliage green in color, normal growth for the season.

**Additional Comments on Health:** do not see much dead pine on edge

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## HYDIC SOILS

Look for signs of subsidence, oxidation or abnormal desiccation and select the category which best describes the current conditions of the wetland soils. This assessment may not be applicable (NA) if site is inundated.

Circle Appropriate Category: **1)** Substantial subsidence/oxidation; **2)** Moderate subsidence/oxidation; **3)** Little or no evidence of subsidence/oxidation

Circle Appropriate Soil Condition: **1)** Inundated, **2)** Saturated, **3)** Moist, **4)** Dry

**Additional Comments on Soil** \_\_\_\_\_

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## HYDROLOGY

**Current Water Level Indicators** (e.g., mosses, lichens, stains)

Estimated depth of water relative to high water marks or indicators: \_\_\_\_\_; describe type of indicator: \_\_\_\_\_

Circle the Appropriate Category: **1)** None of these indicators are present or indicators are at ground level; **2)** Indicators present; however, indistinct or abnormally low in comparison to the historic normal pool; **3)** Indicators are distinct and at the appropriate level for the season.

**Additional Comments on Hydrology** within 0.5-1.0 of top of boat docks and lawns

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## WILDLIFE AND LISTED SPECIES

**Listed Flora and Fauna Observed** (Include activity information for fauna)

**Wetland-Dependent Fauna Observed:**

Activity codes (M = mating, F = foraging, FT = flyover/traveling; N = nesting, OT = other)

Observation codes (O = observed, S = sign [scat, tracks, call or other signs of presence])

## GENERAL SITE DESCRIPTION CATEGORIES

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### Habitat Gradient

Circle Appropriate Category: **1)** full habitat gradient present from aquatic/wetland up gradient to native upland habitat; **2)** native upland habitat is present along 50-75% of perimeter; **3)** native upland habitat is present along 25-50% of perimeter; **4)** native upland habitat is present along less than 25% of perimeter.

**Additional Comments on Habitat Gradient** only at south end (see aerial photo) <<25%

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### Habitat Quality

Circle Appropriate Category: **1)** habitats present are in relatively natural condition in terms of community structure and plant species composition; **2)** habitats are in degraded condition in terms of community structure and plant species composition ; **3)** habitats are in severely degraded condition in terms of community structure and plant species composition.

**Additional Comments on Habitat Quality** \_\_\_\_\_

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### Hydrology and Landscape Position

Circle Appropriate Category: **1)** wetland/aquatic system is isolated, with no regular surface water inflow or outflow; **2)** system has surface water inflow or outflow only at high water condition; **3)** system is flow-through with surface water inflow and outflow.

**Additional Comments on Landscape Position:** \_\_\_\_\_

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### Storm Water Inflows and Outflows

Circle Appropriate Category: **1)** no significant adverse effects to habitat, hydrologic regime, or water quality due to inflow of stormwater system; **2)** habitat conditions are generally good, but adverse effects to habitat, hydrologic regime, or water quality are evident due to inflow stormwater inflows; **3)** habitat conditions are degraded by adverse effects of stormwater inflows.

**Additional Comments on Surface Water** \_\_\_\_\_

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### Shoreline Development

Circle Appropriate Category: **1)** less than 10% of shoreline/perimeter is developed; **2)** 10 to 30% of shoreline/perimeter is developed; **3)** 30 to 60% of shoreline/perimeter is developed; **4)** greater than 60% of shoreline/perimeter is developed.

**Additional Comments on Shoreline:** \_\_\_\_\_

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### Land Protection

Circle Appropriate Category: **1)** site and surrounding lands are in public ownership, or land use is limited to conservation/preservation; **2)** some but not all site and surrounding lands are in public ownership, or protected by easement ; **3)** site and surrounding lands are in not public ownership, nor protected by easement.

**Additional Comments on Land Protection** \_\_\_\_\_

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### Site Disturbance

Circle Appropriate Category: **1)** less than 10% wetland/water body recent land clearance or disturbance; **2)** 10 to 30% of wetland/water body is affected by recent land disturbance; **3)** 30 to 60% of wetland/water body is affected by recent land disturbance; **4)** greater than 60% of wetland/water body is affected by recent land disturbance.

Circle Appropriate Category: **1)** less than 10% uplands adjacent wetland/water body affected by recent land clearance or disturbance; **2)** 10 to 30% of upland is affected by recent land disturbance; **3)** 30 to 60% of upland is affected by recent land disturbance; **4)** greater than 60% of upland is affected by recent land disturbance.

**Additional Comments on Land Disturbance** \_\_\_\_\_

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### Drainage Alteration

Are significant drainage features present on the site? No If yes, describe: \_\_\_\_\_

Are there significant drainage features on lands bordering the wetland/water body? No If yes, describe: \_\_\_\_\_  
photo's \_\_\_\_\_

**Additional Comments on Drainage** \_\_\_\_\_

# Wetland Assessment Field Form--SJRWMD Constraint Wetland Project

PROJECT: Lake Lucy SJRWMD SITE ID: #136 COUNTY: Orange

OTHER LOCATION NOTES: \_\_\_\_\_

PERSONNEL : Bill Dunn and Bob Fewster DATE: 8/24/05 TIME: 10:25

GPS COORDINATES: Latitude : N 28 34.346 Longitude: W 81 29.827

## PHOTOGRAPHY

Roll: \_\_\_\_\_ Photo Frame #: pan of 6

Description of photo(s): \_\_\_\_\_

## WATER LEVEL:

Water Depth: w/in 0.5' of highest water Staff Gage or Piezometer Level (if present): \_\_\_\_\_

## VEGETATION

Major Vegetation Zones Present in Wetland or Water Body: \_\_\_\_\_ forested,  shrub scrub,  marsh,  aquatic, \_\_\_\_\_ pond,  lake, \_\_\_\_\_ other (list): \_\_\_\_\_

## HERBACEOUS GROUNDCOVER (% cover of OBL and/or FACW species to nearest 10%)

Zone 1: Composition: \_\_\_\_\_ Zone 2: Composition: \_\_\_\_\_ lit zone

Dominant Groundcover Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_

Total % Groundcover: 100% in littoral zone Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Cattail – scattered dense stands \_\_\_\_\_

Species/1/2/3/4/5: Maidencane \_\_\_\_\_

Species/1/2/3/4/5: Sagittaria \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Groundcover Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal groundcover zonation; 2) Somewhat abnormal zonation – some signs of abnormal groundcover zonation mainly limited to the wetland edge;  Normal groundcover zonation.

Additional Comments on Groundcover \_\_\_\_\_

## NUISANCE/WEEDY GROUNDCOVER

Composition--Circle the appropriate category: 1) > 50% of all groundcover species cover is weeds; 2) > 10% and < 50% of all groundcover species cover is weeds (either dispersed throughout wetland or in dense localized patches);  < 10% of all groundcover species cover is weeds or weeds are absent.

Additional Comments on Weedy Species \_\_\_\_\_

## SHRUB—isolated patches

Composition \_\_\_\_\_ % cover OBL and/or FACW shrub species to nearest 10%

Dominant Shrub Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_

Total % Shrub cover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Button Bush scattered, isolated small stands \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Shrub and Small Tree Species Zonation--Circle the appropriate category: 1) Abnormal zonation – many signs of abnormal shrub and tree zonation; 2) Somewhat abnormal zonation -some signs of abnormal shrub and tree zonation mainly limited to the wetland edge;  Normal shrub and tree zonation.



Additional Comments on Shrubs \_\_\_\_\_

**WEEDY SHRUB**

**Composition** --Circle the appropriate category: 1) > 50% of all shrub species cover is weeds; 2) > 10% and < 50% of all shrub species cover is (either dispersed throughout the wetland or in dense localized patches); 3) < 10% of all shrub species cover is weeds or weeds are absent.

Additional Comments on Weedy Shrubs \_\_\_\_\_

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**CANOPY (TREE)**

**Dominant Canopy Species Cover Classes** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Canopy Cover: \_\_\_\_\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Willow scattered, isolated in littoral fringe \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

**Tree Zonation**--Circle the appropriate category: 1) Abnormal zonation – multiple signs of abnormal distribution and cover; 2) Somewhat abnormal zonation with moderately abnormal distribution and cover; 3) Normal zonation with normal distribution and cover.

Additional Comments on Tree Species \_\_\_\_\_

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**AQUATIC—patches scattered along littoral fringe**

**Dominant Aquatic Species % Cover Categories:** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Aquatic Plant Cover: \_\_\_\_\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Nymphaea on lake 15-20% \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

**Aquatic Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal plant zonation; 2) Somewhat abnormal zonation - some signs of abnormal zonation; 3) Normal aquatic plant zonation

Additional Comments on Aquatic Species: \_\_\_\_\_

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## PLANT COMMUNITY HEALTH

Does community show unusual signs of stress? No. Visually estimate % of wetland zone exhibiting signs of stress; \_\_\_\_\_

Type of stress observed (e.g., dead or dying plants, discolored foliage, wilted or rolled leaves, premature leaf fall or senescence, etc.): \_\_\_\_\_

Does stress appear moisture related, or is there sign of disease or insect injury? \_\_\_\_\_

### Overall Condition of Plant Community is:

Circle Appropriate Category: **1)** Plants are dead or dying; **2)** poor vigor with obvious decline (foliage discolored, wilted, premature leaf fall) ; **3)** fair vigor, some signs of stress or decline; **4)** medium vigor, some yellow-green foliage, or signs of leaf wilt or leaf curling; **5)** appearance good, foliage green but foliage thin, less than normal growth for the season; **6)** excellent vigor, foliage green in color, normal growth for the season.

Additional Comments on Health: \_\_\_\_\_

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## HYDIC SOILS

Look for signs of subsidence, oxidation or abnormal desiccation and select the category which best describes the current conditions of the wetland soils. This assessment may not be applicable (NA) if site is inundated.

Circle Appropriate Category: **1)** Substantial subsidence/oxidation; **2)** Moderate subsidence/oxidation; **3)** Little or no evidence of subsidence/oxidation

Circle Appropriate Soil Condition: **1)** Inundated, **2)** Saturated, **3)** Moist, **4)** Dry

Additional Comments on Soil \_\_\_\_\_

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## HYDROLOGY

**Current Water Level Indicators** (e.g., mosses, lichens, stains)

Estimated depth of water relative to high water marks or indicators: \_\_\_\_\_; describe type of indicator: \_\_\_\_\_

Circle the Appropriate Category: **1)** None of these indicators are present or indicators are at ground level; **2)** Indicators present; however, indistinct or abnormally low in comparison to the historic normal pool; **3)** Indicators are distinct and at the appropriate level for the season.

Additional Comments on Hydrology water levels up significantly from previous visits \_\_\_\_\_

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## WILDLIFE AND LISTED SPECIES

**Listed Flora and Fauna Observed** (Include activity information for fauna)

**Wetland-Dependent Fauna Observed:**

Activity codes (M = mating, F = foraging, FT = flyover/traveling; N = nesting, OT = other)

Observation codes (O = observed, S = sign [scat, tracks, call or other signs of presence])

## GENERAL SITE DESCRIPTION CATEGORIES

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### Habitat Gradient

Circle Appropriate Category: **1)** full habitat gradient present from aquatic/wetland up gradient to native upland habitat; **2)** native upland habitat is present along 50-75% of perimeter; **3)** native upland habitat is present along 25-50% of perimeter; **4)** native upland habitat is present along less than 25% of perimeter.

Additional Comments on Habitat Gradient mostly lawns bordering

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### Habitat Quality

Circle Appropriate Category: **1)** habitats present are in relatively natural condition in terms of community structure and plant species composition; **2)** habitats are in degraded condition in terms of community structure and plant species composition ; **3)** habitats are in severely degraded condition in terms of community structure and plant species composition.

Additional Comments on Habitat Quality excluding uplands

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### Hydrology and Landscape Position

Circle Appropriate Category: **1)** wetland/aquatic system is isolated, with no regular surface water inflow or outflow; **2)** system has surface water inflow or outflow only at high water condition; **3)** system is flow-through with surface water inflow and outflow.

Additional Comments on Landscape Position: \_\_\_\_\_

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### Storm Water Inflows and Outflows

Circle Appropriate Category: **1)** no significant adverse effects to habitat, hydrologic regime, or water quality due to inflow of stormwater system; **2)** habitat conditions are generally good, but adverse effects to habitat, hydrologic regime, or water quality are evident due to inflow stormwater inflows; **3)** ) habitat conditions are degraded by adverse effects of stormwater inflows.

Additional Comments on Surface Water \_\_\_\_\_

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### Shoreline Development

Circle Appropriate Category: **1)** less than 10% of shoreline/perimeter is developed; **2)** 10 to 30% of shoreline/perimeter is developed; **3)** 30 to 60% of shoreline/perimeter is developed; **4)** greater than 60% of shoreline/perimeter is developed.

Additional Comments on Shoreline: roads on 3 sides, Good Homes Road, Silver Star Blvd.

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### Land Protection

Circle Appropriate Category: **1)** site and surrounding lands are in public ownership, or land use is limited to conservation/preservation; **2)** some but not all site and surrounding lands are in public ownership, or protected by easement ; **3)** site and surrounding lands are in not public ownership, nor protected by easement.

Additional Comments on Land Protection none

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### Site Disturbance

Circle Appropriate Category: **1)** less than 10% wetland/water body recent land clearance or disturbance; **2)** 10 to 30% of wetland/water body is affected by recent land disturbance; **3)** 30 to 60% of wetland/water body is affected by recent land disturbance; **4)** greater than 60% of wetland/water body is affected by recent land disturbance.

Circle Appropriate Category: **1)** less than 10% uplands adjacent wetland/water body affected by recent land clearance or disturbance; **2)** 10 to 30% of upland is affected by recent land disturbance; **3)** 30 to 60% of upland is affected by recent land disturbance; **4)** greater than 60% of upland is affected by recent land disturbance.

Additional Comments on Land Disturbance no recent

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### Drainage Alteration

Are significant drainage features present on the site? no If yes, describe: \_\_\_\_\_

Are there significant drainage features on lands bordering the wetland/water body? no If yes, describe: \_\_\_\_\_  
photo's \_\_\_\_\_

Additional Comments on Drainage closed system

# Wetland Assessment Field Form--SJRWMD Constraint Wetland Project

PROJECT: Lake Como SJRWMD SITE ID: #143 COUNTY: Orange

OTHER LOCATION NOTES: Lake Como Park off of Bumby Road

PERSONNEL : Bill Dunn and Bob Fewster DATE: 8/24/05 TIME: 9:55

GPS COORDINATES: Latitude : N 28 32.171 Longitude: W 81 21.147

## PHOTOGRAPHY

Roll: \_\_\_\_\_ Photo Frame #s photo of sign (1), pan of lake (4)

Description of photo(s):

## WATER LEVEL

Water Depth: \_\_\_\_\_ Staff Gage or Piezometer Level (if present): 91.5

## VEGETATION—lake surrounded by grassed parkland

Major Vegetation Zones Present in Wetland or Water Body: \_\_\_\_\_ forested, \_\_\_\_\_ shrub scrub, \_\_\_\_\_ marsh, \_\_\_\_\_ aquatic,  
X pond, X lake, \_\_\_\_\_ other (list): border of grass

## HERBACEOUS GROUNDCOVER (% cover of OBL and/or FACW species to nearest 10%)—No significant marsh areas

Zone 1: Composition: \_\_\_\_\_ Zone 2: Composition: \_\_\_\_\_

Dominant Groundcover Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: 80+% cover Zone 2: \_\_\_\_\_

Total % Groundcover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Groundcover Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal groundcover zonation; 2) Somewhat abnormal zonation - some signs of abnormal groundcover zonation mainly limited to the wetland edge; 3) Normal groundcover zonation.

Additional Comments on Groundcover \_\_\_\_\_

## NUISANCE/WEEDY GROUNDCOVER

Composition--Circle the appropriate category: 1) > 50% of all groundcover species cover is weeds; 2) > 10% and < 50% of all groundcover species cover is weeds (either dispersed throughout wetland or in dense localized patches); 3) < 10% of all groundcover species cover is weeds or weeds are absent.

Additional Comments on Weedy Species \_\_\_\_\_

## SHRUB-- No significant shrub areas

Composition \_\_\_\_\_ % cover OBL and/or FACW shrub species to nearest 10%

Dominant Shrub Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_

Total % Shrub cover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: no shrub \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Shrub and Small Tree Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal shrub and tree zonation; 2) Somewhat abnormal zonation - some signs of abnormal shrub and tree zonation mainly limited to the wetland edge; 3) Normal shrub and tree zonation.



Additional Comments on Shrubs \_\_\_\_\_

**WEEDY SHRUB**

**Composition** --Circle the appropriate category: 1) > 50% of all shrub species cover is weeds; 2) > 10% and < 50% of all shrub species cover is (either dispersed throughout the wetland or in dense localized patches); 3) < 10% of all shrub species cover is weeds or weeds are absent.

Additional Comments on Weedy Shrubs \_\_\_\_\_

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**CANOPY (TREE)-- No significant forested areas**

**Dominant Canopy Species Cover Classes** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Canopy Cover: \_\_\_\_\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Taxodium ascendens \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Tree Zonation**--Circle the appropriate category: 1) Abnormal zonation – multiple signs of abnormal distribution and cover; 2) Somewhat abnormal zonation with moderately abnormal distribution and cover; 3) Normal zonation with normal distribution and cover.

**Additional Comments on Tree Species:** scattered fringe of cypress, see photo \_\_\_\_\_

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**AQUATIC**

**Dominant Aquatic Species % Cover Categories:** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Aquatic Plant \_\_\_\_\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: little to none \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Aquatic Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal plant zonation; 2) Somewhat abnormal zonation - some signs of abnormal zonation; 3) Normal aquatic plant zonation

**Additional Comments on Aquatic Species:** Looks like herbicides are applied to control aquatic macrophytes \_\_\_\_\_

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## PLANT COMMUNITY HEALTH.....little to no vegetation, artificial conditions

Does community show unusual signs of stress?\_\_\_\_\_. Visually estimate % of wetland zone exhibiting signs of stress;\_\_\_\_\_

Type of stress observed (e.g., dead or dying plants, discolored foliage, wilted or rolled leaves, premature leaf fall or senescence, etc.):\_\_\_\_\_

Does stress appear moisture related, or is there sign of disease or insect injury? \_\_\_\_\_

### Overall Condition of Plant Community is:

Circle Appropriate Category: **1)** Plants are dead or dying; **2)** poor vigor with obvious decline (foliage discolored, wilted, premature leaf fall) ; **3)** fair vigor, some signs of stress or decline; **4)** medium vigor, some yellow-green foliage, or signs of leaf wilt or leaf curling; **5)** appearance good, foliage green but foliage thin, less than normal growth for the season; **6)** excellent vigor, foliage green in color, normal growth for the season.

Additional Comments on Health \_\_\_\_\_

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## HYDIC SOILS

Look for signs of subsidence, oxidation or abnormal desiccation and select the category which best describes the current conditions of the wetland soils. This assessment may not be applicable (NA) if site is inundated.

Circle Appropriate Category: **1)** Substantial subsidence/oxidation; **2)** Moderate subsidence/oxidation; **3)** Little or no evidence of subsidence/oxidation

Circle Appropriate Soil Condition: **1)** Inundated, **2)** Saturated, **3)** Moist, **4)** Dry

Additional Comments on Soil \_\_\_\_\_

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## HYDROLOGY

**Current Water Level Indicators** (e.g., mosses, lichens, stains)

Estimated depth of water relative to high water marks or indicators:\_\_\_\_\_ ; describe type of indicator:\_\_\_\_\_

Circle the Appropriate Category: **1)** None of these indicators are present or indicators are at ground level; **2)** Indicators present; however, indistinct or abnormally low in comparison to the historic normal pool; **3)** Indicators are distinct and at the appropriate level for the season.

Additional Comments on Hydrology \_\_\_\_\_ water marks or pipes and staff @ + 0.5' of stain marks \_\_\_\_\_

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## WILDLIFE AND LISTED SPECIES

Listed Flora and Fauna Observed (Include activity information for fauna)

### Wetland-Dependent Fauna Observed:

Activity codes (M = mating, F = foraging, FT = flyover/traveling; N = nesting, OT = other)

Observation codes (O = observed, S = sign [scat, tracks, call or other signs of presence])

# GENERAL SITE DESCRIPTION CATEGORIES

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## Habitat Gradient

Circle Appropriate Category: **1)** full habitat gradient present from aquatic/wetland up gradient to native upland habitat; **2)** native upland habitat is present along 50-75% of perimeter; **3)** native upland habitat is present along 25-50% of perimeter; **4)** native upland habitat is present along less than 25% of perimeter.

Additional Comments on Habitat Gradient urban park with grass

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## Habitat Quality.....almost no native habitat

Circle Appropriate Category: **1)** habitats present are in relatively natural condition in terms of community structure and plant species composition; **2)** habitats are in degraded condition in terms of community structure and plant species composition ; **3)** habitats are in severely degraded condition in terms of community structure and plant species composition.

Additional Comments on Habitat Quality urban park, vegetation ,managed, altered

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## Hydrology and Landscape Position

Circle Appropriate Category: **1)** wetland/aquatic system is isolated, with no regular surface water inflow or outflow; **2)** system has surface water inflow or outflow only at high water condition; **3)** system is flow-through with surface water inflow and outflow.

Additional Comments on Landscape Position: stormwater inflow

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## Storm Water Inflows and Outflows

Circle Appropriate Category: **1)** no significant adverse effects to habitat, hydrologic regime, or water quality due to inflow of stormwater system; **2)** habitat conditions are generally good, but adverse effects to habitat, hydrologic regime, or water quality are evident due to inflow stormwater inflows; **3)** ) habitat conditions are degraded by adverse effects of stormwater inflows.

Additional Comments on Surface Water aerators in lake

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## Shoreline Development

Circle Appropriate Category: **1)** less than 10% of shoreline/perimeter is developed; **2)** 10 to 30% of shoreline/perimeter is developed; **3)** 30 to 60% of shoreline/perimeter is developed; **4)** greater than 60% of shoreline/perimeter is developed.

Additional Comments on Shoreline 100% in park bordered by residential

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## Land Protection

Circle Appropriate Category: **1)** site and surrounding lands are in public ownership, or land use is limited to conservation/preservation; **2)** some but not all site and surrounding lands are in public ownership, or protected by easement ; **3)** site and surrounding lands are in not public ownership, nor protected by easement.

Additional Comments on Land Protection park surrounds lake

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## Site Disturbance

Circle Appropriate Category: **1)** less than 10% wetland/water body recent land clearance or disturbance; **2)** 10 to 30% of wetland/water body is affected by recent land disturbance; **3)** 30 to 60% of wetland/water body is affected by recent land disturbance; **4)** greater than 60% of wetland/water body is affected by recent land disturbance.

Circle Appropriate Category: **1)** less than 10% uplands adjacent wetland/water body affected by recent land clearance or disturbance; **2)** 10 to 30% of upland is affected by recent land disturbance; **3)** 30 to 60% of upland is affected by recent land disturbance; **4)** greater than 60% of upland is affected by recent land disturbance.

Additional Comments on Land Disturbance: \_\_\_\_\_

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## Drainage Alteration

Are significant drainage features present on the site? No If yes, describe: \_\_\_\_\_

Are there significant drainage features on lands bordering the wetland/water body? No If yes, describe: \_\_\_\_\_

Additional Comments on Drainage \_\_\_\_\_

# Wetland Assessment Field Form--SJRWMD Constraint Wetland Project

PROJECT: Wetland near Lake Speer SJRWMD SITE ID: #158 COUNTY: Orange

OTHER LOCATION NOTES: entered from edge of subdivision under construction due E, logging road runs E-W around top of lake and this wetland.

PERSONNEL: Bill Dunn and Bob Fewster DATE: 8/24/05 TIME: 11:20

GPS COORDINATES: Latitude: N 28 29.049 Longitude: W 81 36.248

## PHOTOGRAPHY

Roll: \_\_\_\_\_ Photo Frame #s: 2 from outside Marsh

Description of photo(s): pan

## WATER LEVEL

Water Depth: \_\_\_\_\_ Staff Gage or Piezometer Level (if present): \_\_\_\_\_

## VEGETATION—wet prairie

Major Vegetation Zones Present in Wetland or Water Body: \_\_\_\_\_ forested, \_\_\_\_\_ shrub scrub, X marsh, \_\_\_\_\_ aquatic, \_\_\_\_\_ pond, \_\_\_\_\_ lake, \_\_\_\_\_ other (list): \_\_\_\_\_

## HERBACEOUS GROUNDCOVER (% cover of OBL and/or FACW species to nearest 10%)

Zone 1: Composition: \_\_\_\_\_ Zone 2: Composition: \_\_\_\_\_

Dominant Groundcover Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: 80+% cover Zone 2: \_\_\_\_\_

Total % Groundcover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Red root 5% Nymphaea 5%

Species/1/2/3/4/5: Cladium 15% Proserpinaca 1%

Species/1/2/3/4/5: Maidencane 60% Xyris 1%

Species/1/2/3/4/5: Rhynchospora 5% \_\_\_\_\_

Species/1/2/3/4/5: Rhexia 5% \_\_\_\_\_

Groundcover Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal groundcover zonation; 2) Somewhat abnormal zonation - some signs of abnormal groundcover zonation mainly limited to the wetland edge; 3) Normal groundcover zonation.

Additional Comments on Groundcover stand of Cladium in center

## NUISANCE/WEEDY GROUNDCOVER

Composition--Circle the appropriate category: 1) > 50% of all groundcover species cover is weeds; 2) > 10% and < 50% of all groundcover species cover is weeds (either dispersed throughout wetland or in dense localized patches); 3) < 10% of all groundcover species cover is weeds or weeds are absent.

Additional Comments on Weedy Species \_\_\_\_\_

## SHRUB.....narrow band of wax myrtle

Composition \_\_\_\_\_ % cover OBL and/or FACW shrub species to nearest 10%

Dominant Shrub Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_

Total % Shrub cover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: button bush scattered \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Shrub and Small Tree Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal shrub and tree zonation; 2) Somewhat abnormal zonation -some signs of abnormal shrub and tree zonation mainly limited to the wetland edge; 3) Normal shrub and tree zonation.



Additional Comments on Shrubs \_\_\_\_\_

**WEEDY SHRUB**

**Composition** --Circle the appropriate category: 1) > 50% of all shrub species cover is weeds; 2) > 10% and < 50% of all shrub species cover is (either dispersed throughout the wetland or in dense localized patches); 3) < 10% of all shrub species cover is weeds or weeds are absent.

Additional Comments on Weedy Shrubs \_\_\_\_\_

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**CANOPY (TREE)..... N/A**

**Dominant Canopy Species Cover Classes** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Canopy Cover: \_\_\_\_\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Tree Zonation**--Circle the appropriate category: 1) Abnormal zonation – multiple signs of abnormal distribution and cover; 2) Somewhat abnormal zonation with moderately abnormal distribution and cover; 3) Normal zonation with normal distribution and cover.

Additional Comments on Tree Species \_\_\_\_\_

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**AQUATIC.....N/A**

**Dominant Aquatic Species % Cover Categories:** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Aquatic Plant \_\_\_\_\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Aquatic Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal plant zonation; 2) Somewhat abnormal zonation - some signs of abnormal zonation; 3) Normal aquatic plant zonation

Additional Comments on Aquatic Species:

\_\_\_\_\_

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## PLANT COMMUNITY HEALTH

Does community show unusual signs of stress? No. Visually estimate % of wetland zone exhibiting signs of stress; \_\_\_\_\_

Type of stress observed (e.g., dead or dying plants, discolored foliage, wilted or rolled leaves, premature leaf fall or senescence, etc.): \_\_\_\_\_

Does stress appear moisture related, or is there sign of disease or insect injury? \_\_\_\_\_

**Overall Condition of Plant Community is:**

Circle Appropriate Category: **1)** Plants are dead or dying; **2)** poor vigor with obvious decline (foliage discolored, wilted, premature leaf fall) ; **3)** fair vigor, some signs of stress or decline; **4)** medium vigor, some yellow-green foliage, or signs of leaf wilt or leaf curling; **5)** appearance good, foliage green but foliage thin, less than normal growth for the season; **6)** excellent vigor, foliage green in color, normal growth for the season.

**Additional Comments on Health** excellent

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## HYDIC SOILS

Look for signs of subsidence, oxidation or abnormal desiccation and select the category which best describes the current conditions of the wetland soils. This assessment may not be applicable (NA) if site is inundated.

Circle Appropriate Category: **1)** Substantial subsidence/oxidation; **2)** Moderate subsidence/oxidation; **3)** Little or no evidence of subsidence/oxidation

Circle Appropriate Soil Condition: **1)** Inundated, **2)** Saturated, **3)** Moist, **4)** Dry

**Additional Comments on Soil** No evidence

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## HYDROLOGY

**Current Water Level Indicators** (e.g., mosses, lichens, stains)

Estimated depth of water relative to high water marks or indicators: \_\_\_\_\_; describe type of indicator: \_\_\_\_\_

Circle the Appropriate Category: **1)** None of these indicators are present or indicators are at ground level; **2)** Indicators present; however, indistinct or abnormally low in comparison to the historic normal pool; **3)** Indicators are distinct and at the appropriate level for the season.

**Additional Comments on Hydrology** Water level high, young encroaching pines in the water now; lichen line @ +0.25

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## WILDLIFE AND LISTED SPECIES

**Listed Flora and Fauna Observed** (Include activity information for fauna)

**Wetland-Dependent Fauna Observed:**

Activity codes (M = mating, F = foraging, FT = flyover/traveling; N = nesting, OT = other)

Observation codes (O = observed, S = sign [scat, tracks, call or other signs of presence])

## GENERAL SITE DESCRIPTION CATEGORIES

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### Habitat Gradient

Circle Appropriate Category: **1)** full habitat gradient present from aquatic/wetland up gradient to native upland habitat; **2)** native upland habitat is present along 50-75% of perimeter; **3)** native upland habitat is present along 25-50% of perimeter; **4)** native upland habitat is present along less than 25% of perimeter.

Additional Comments on Habitat Gradient intact now, but development coming

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### Habitat Quality

Circle Appropriate Category: **1)** habitats present are in relatively natural condition in terms of community structure and plant species composition; **2)** habitats are in degraded condition in terms of community structure and plant species composition ; **3)** habitats are in severely degraded condition in terms of community structure and plant species composition.

Additional Comments on Habitat Quality except logging in flatwoods on North

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### Hydrology and Landscape Position

Circle Appropriate Category: **1)** wetland/aquatic system is isolated, with no regular surface water inflow or outflow; **2)** system has surface water inflow or outflow only at high water condition; **3)** system is flow-through with surface water inflow and outflow.

Additional Comments on Landscape Position: \_\_\_\_\_

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### Storm Water Inflows and Outflows

Circle Appropriate Category: **1)** no significant adverse effects to habitat, hydrologic regime, or water quality due to inflow of stormwater system; **2)** habitat conditions are generally good, but adverse effects to habitat, hydrologic regime, or water quality are evident due to inflow stormwater inflows; **3)** ) habitat conditions are degraded by adverse effects of stormwater inflows.

Additional Comments on Surface Water none yet

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### Shoreline Development

Circle Appropriate Category: **1)** less than 10% of shoreline/perimeter is developed; **2)** 10 to 30% of shoreline/perimeter is developed; **3)** 30 to 60% of shoreline/perimeter is developed; **4)** greater than 60% of shoreline/perimeter is developed.

Additional Comments on Shoreline 0%

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### Land Protection

Circle Appropriate Category: **1)** site and surrounding lands are in public ownership, or land use is limited to conservation/preservation; **2)** some but not all site and surrounding lands are in public ownership, or protected by easement ; **3)** site and surrounding lands are in not public ownership, nor protected by easement.

Additional Comments on Land Protection none

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### Site Disturbance

Circle Appropriate Category: **1)** less than 10% wetland/water body recent land clearance or disturbance; **2)** 10 to 30% of wetland/water body is affected by recent land disturbance; **3)** 30 to 60% of wetland/water body is affected by recent land disturbance; **4)** greater than 60% of wetland/water body is affected by recent land disturbance.

Circle Appropriate Category: **1)** less than 10% uplands adjacent wetland/water body affected by recent land clearance or disturbance; **2)** 10 to 30% of upland is affected by recent land disturbance; **3)** 30 to 60% of upland is affected by recent land disturbance; **4)** greater than 60% of upland is affected by recent land disturbance.

Additional Comments on Land Disturbance: development coming

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### Drainage Alteration

Are significant drainage features present on the site? No If yes, describe: \_\_\_\_\_

Are there significant drainage features on lands bordering the wetland/water body? No If yes, describe: \_\_\_\_\_

Additional Comments on Drainage \_\_\_\_\_

# Wetland Assessment Field Form--SJRWMD Constraint Wetland Project

PROJECT: Sawgrass Lake SJRWMD SITE ID: #170 COUNTY: Lake

OTHER LOCATION NOTES: @ end of Shell Pond Rd

PERSONNEL : Bill Dunn and Bob Fewster DATE: 8/24/05 TIME: 14:20

GPS COORDINATES: Latitude : N 28 26.214 Longitude: W 81 41.128

## PHOTOGRAPHY

Roll: \_\_\_\_\_ Photo Frame #s: pan of 6, same location as visited previously w/Lorne Malo; Conserv area

Description of photo(s):

## WATER LEVEL

Water Depth: \_\_\_\_\_ Staff Gage or Piezometer Level (if present): \_\_\_\_\_

## VEGETATION complex mosaic of open water, wetlands and floating plants

Major Vegetation Zones Present in Wetland or Water Body:  forested, \_\_\_\_\_ shrub scrub,  marsh,  aquatic, \_\_\_\_\_ pond,  lake, \_\_\_\_\_ other (list): \_\_\_\_\_

## HERBACEOUS GROUNDCOVER (% cover of OBL and/or FACW species to nearest 10%)

Zone 1: Composition: \_\_\_\_\_ Zone 2: Composition: \_\_\_\_\_

Dominant Groundcover Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: 20 - 25%

Zone 2: \_\_\_\_\_

Total % Groundcover: narrow littoral fringe Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Torpedo grass \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Groundcover Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal groundcover zonation; 2) Somewhat abnormal zonation - some signs of abnormal groundcover zonation mainly limited to the wetland edge; 3) Normal groundcover zonation.

Additional Comments on Groundcover \_\_\_\_\_

## NUISANCE/WEEDY GROUNDCOVER

Composition--Circle the appropriate category: 1) > 50% of all groundcover species cover is weeds; 2) > 10% and < 50% of all groundcover species cover is weeds (either dispersed throughout wetland or in dense localized patches); 3) < 10% of all groundcover species cover is weeds or weeds are absent.

Additional Comments on Weedy Species \_\_\_\_\_

## SHRUB

Composition \_\_\_\_\_ % cover OBL and/or FACW shrub species to nearest 10%

Dominant Shrub Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: 5%

Zone 2: \_\_\_\_\_

Total % Shrub cover: scattered shrub Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Primrose willow \_\_\_\_\_

Species/1/2/3/4/5: Willow \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Shrub and Small Tree Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal shrub and tree zonation; 2) Somewhat abnormal zonation - some signs of abnormal shrub and tree zonation mainly limited to the wetland edge; 3) Normal shrub and tree zonation.



Additional Comments on Shrubs \_\_\_\_\_

**WEEDY SHRUB**

**Composition** --Circle the appropriate category: 1) > 50% of all shrub species cover is weeds; 2) > 10% and < 50% of all shrub species cover is (either dispersed throughout the wetland or in dense localized patches); 3) < 10% of all shrub species cover is weeds or weeds are absent.

Additional Comments on Weedy Shrubs \_\_\_\_\_

**CANOPY (TREE)**

**Dominant Canopy Species Cover Classes** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Canopy Cover: narrow fringe \_\_\_\_\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Bald cypress \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: Maple \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: Willow \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Tree Zonation**--Circle the appropriate category: 1) Abnormal zonation – multiple signs of abnormal distribution and cover; 2) Somewhat abnormal zonation with moderately abnormal distribution and cover; 3) Normal zonation with normal distribution and cover.

Additional Comments on Tree Species \_\_\_\_\_

**AQUATIC.....extensive floating mats**

**Dominant Aquatic Species % Cover Categories:** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Aquatic Plant Cover: floating mats of Hyacinth \_\_\_\_\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Hyacinth \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Aquatic Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal plant zonation; 2) Somewhat abnormal zonation - some signs of abnormal zonation; 3) Normal aquatic plant zonation

Additional Comments on Aquatic Species:

Pasture \_\_\_\_\_

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## PLANT COMMUNITY HEALTH

Does community show unusual signs of stress? No. Visually estimate % of wetland zone exhibiting signs of stress; \_\_\_\_\_

Type of stress observed (e.g., dead or dying plants, discolored foliage, wilted or rolled leaves, premature leaf fall or senescence, etc.): \_\_\_\_\_

Does stress appear moisture related, or is there sign of disease or insect injury? \_\_\_\_\_

### Overall Condition of Plant Community is:

Circle Appropriate Category: **1)** Plants are dead or dying; **2)** poor vigor with obvious decline (foliage discolored, wilted, premature leaf fall) ; **3)** fair vigor, some signs of stress or decline; **4)** medium vigor, some yellow-green foliage, or signs of leaf wilt or leaf curling; **5)** appearance good, foliage green but foliage thin, less than normal growth for the season; **6)** excellent vigor, foliage green in color, normal growth for the season.

Additional Comments on Health \_\_\_\_\_

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## HYDIC SOILS

Look for signs of subsidence, oxidation or abnormal desiccation and select the category which best describes the current conditions of the wetland soils. This assessment may not be applicable (NA) if site is inundated.

Circle Appropriate Category: **1)** Substantial subsidence/oxidation; **2)** Moderate subsidence/oxidation; **3)** Little or no evidence of subsidence/oxidation

Circle Appropriate Soil Condition: **1)** Inundated, **2)** Saturated, **3)** Moist, **4)** Dry

Additional Comments on Soil \_\_\_\_\_

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## HYDROLOGY

### Current Water Level Indicators (e.g., mosses, lichens, stains)

Estimated depth of water relative to high water marks or indicators: \_\_\_\_\_; describe type of indicator: \_\_\_\_\_

Circle the Appropriate Category: **1)** None of these indicators are present or indicators are at ground level; **2)** Indicators present; however, indistinct or abnormally low in comparison to the historic normal pool; **3)** Indicators are distinct and at the appropriate level for the season.

Additional Comments on Hydrology \_\_\_\_\_ water up to grassed edge of groves (see photo) within 0.5-1.0' HW; lake is adjacent to CONSERV irrigated groves \_\_\_\_\_

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## WILDLIFE AND LISTED SPECIES

### Listed Flora and Fauna Observed (Include activity information for fauna)

#### Wetland-Dependent Fauna Observed:

Activity codes (M = mating, F = foraging, FT = flyover/traveling; N = nesting, OT = other)

Observation codes (O = observed, S = sign [scat, tracks, call or other signs of presence])

## GENERAL SITE DESCRIPTION CATEGORIES

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### Habitat Gradient

Circle Appropriate Category: **1)** full habitat gradient present from aquatic/wetland up gradient to native upland habitat; **2)** native upland habitat is present along 50-75% of perimeter; **3)** native upland habitat is present along 25-50% of perimeter; **4)** native upland habitat is present along less than 25% of perimeter.

Additional Comments on Habitat Gradient Groves adjacent at this location

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### Habitat Quality

Circle Appropriate Category: **1)** habitats present are in relatively natural condition in terms of community structure and plant species composition; **2)** habitats are in degraded condition in terms of community structure and plant species composition ; **3)** habitats are in severely degraded condition in terms of community structure and plant species composition.

Additional Comments on Habitat Quality \_\_\_\_\_

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### Hydrology and Landscape Position

Circle Appropriate Category: **1)** wetland/aquatic system is isolated, with no regular surface water inflow or outflow; **2)** system has surface water inflow or outflow only at high water condition; **3)** system is flow-through with surface water inflow and outflow.

Additional Comments on Landscape Position: check grove irrigation area

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### Storm Water Inflows and Outflows

Circle Appropriate Category: **1)** no significant adverse effects to habitat, hydrologic regime, or water quality due to inflow of stormwater system; **2)** habitat conditions are generally good, but adverse effects to habitat, hydrologic regime, or water quality are evident due to inflow stormwater inflows; **3)** ) habitat conditions are degraded by adverse effects of stormwater inflows.

Additional Comments on Surface Water \_\_\_\_\_

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### Shoreline Development

Circle Appropriate Category: **1)** less than 10% of shoreline/perimeter is developed; **2)** 10 to 30% of shoreline/perimeter is developed; **3)** 30 to 60% of shoreline/perimeter is developed; **4)** greater than 60% of shoreline/perimeter is developed.

Additional Comments on Shoreline groves

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### Land Protection

Circle Appropriate Category: **1)** site and surrounding lands are in public ownership, or land use is limited to conservation/preservation; **2)** some but not all site and surrounding lands are in public ownership, or protected by easement ; **3)** site and surrounding lands are in not public ownership, nor protected by easement.

Additional Comments on Land Protection \_\_\_\_\_

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### Site Disturbance

Circle Appropriate Category: **1)** less than 10% wetland/water body recent land clearance or disturbance; **2)** 10 to 30% of wetland/water body is affected by recent land disturbance; **3)** 30 to 60% of wetland/water body is affected by recent land disturbance; **4)** greater than 60% of wetland/water body is affected by recent land disturbance.

Circle Appropriate Category: **1)** less than 10% uplands adjacent wetland/water body affected by recent land clearance or disturbance; **2)** 10 to 30% of upland is affected by recent land disturbance; **3)** 30 to 60% of upland is affected by recent land disturbance; **4)** greater than 60% of upland is affected by recent land disturbance.

Additional Comments on Land Disturbance 0%

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### Drainage Alteration

Are significant drainage features present on the site? No If yes, describe: \_\_\_\_\_

Are there significant drainage features on lands bordering the wetland/water body? No If yes, describe: \_\_\_\_\_

Additional Comments on Drainage \_\_\_\_\_

# Wetland Assessment Field Form--SJRWMD Constraint Wetland Project

PROJECT: Boggy Marsh SJRWMD SITE ID: #180 COUNTY: Lake

OTHER LOCATION NOTES \_\_\_\_\_

PERSONNEL : Bill Dunn and Bob Fewster DATE: 8/24/05 TIME: 13:48

GPS COORDINATES: Latitude : N 28 23.821 Longitude: W 81 41.845

## PHOTOGRAPHY

Roll: \_\_\_\_\_ Photo Frame #s: staff (2) @ SJRWMD Staff Gage #1 datum @112.51 ft

Description of photo(s): pan 3-4 shots

## WATER LEVEL

Water Depth: \_\_\_\_\_ Staff Gage or Piezometer Level (if present): 5.20 ft

## VEGETATION .....complex mosaic of wetland and aquatic habitat

Major Vegetation Zones Present in Wetland or Water Body:  forested,  shrub scrub,  marsh,  aquatic, \_\_\_\_\_ pond, \_\_\_\_\_ lake, \_\_\_\_\_ other (list): \_\_\_\_\_

## HERBACEOUS GROUNDCOVER (% cover of OBL and/or FACW species to nearest 10%)

Zone 1: Composition: \_\_\_\_\_ Zone 2: Composition: \_\_\_\_\_

Dominant Groundcover Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: 20 - 25% Zone 2: \_\_\_\_\_

Total % Groundcover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Sagittaria latifolia \_\_\_\_\_

Species/1/2/3/4/5: Sawgrass \_\_\_\_\_

Species/1/2/3/4/5: Maidencane \_\_\_\_\_

Species/1/2/3/4/5: Scirpus cubensis \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Groundcover Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal groundcover zonation; 2) Somewhat abnormal zonation - some signs of abnormal groundcover zonation mainly limited to the wetland edge;  Normal groundcover zonation.

Additional Comments on Groundcover \_\_\_\_\_

## NUISANCE/WEEDY GROUNDCOVER

Composition--Circle the appropriate category: 1) > 50% of all groundcover species cover is weeds; 2) > 10% and < 50% of all groundcover species cover is weeds (either dispersed throughout wetland or in dense localized patches);  < 10% of all groundcover species cover is weeds or weeds are absent.

Additional Comments on Weedy Species \_\_\_\_\_

## SHRUB

Composition \_\_\_\_\_ % cover OBL and/or FACW shrub species to nearest 10%

Dominant Shrub Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_

Total % Shrub cover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Wax myrtle \_\_\_\_\_

Species/1/2/3/4/5: Ludwigia peruviana \_\_\_\_\_

Species/1/2/3/4/5: Buttonbush \_\_\_\_\_

Species/1/2/3/4/5: Hypericum fasciculatum \_\_\_\_\_

Shrub and Small Tree Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal shrub and tree zonation; 2) Somewhat abnormal zonation - some signs of abnormal shrub and tree zonation mainly limited to the wetland edge;  Normal shrub and tree zonation.



Additional Comments on Shrubs \_\_\_\_\_

**WEEDY SHRUB**

**Composition** --Circle the appropriate category: 1) > 50% of all shrub species cover is weeds; 2) > 10% and < 50% of all shrub species cover is (either dispersed throughout the wetland or in dense localized patches); 3) < 10% of all shrub species cover is weeds or weeds are absent.

Additional Comments on Weedy Shrubs \_\_\_\_\_

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**CANOPY (TREE)**

**Dominant Canopy Species Cover Classes** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Canopy Cover: 80% + in tree islands \_\_\_\_\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Acer rubrum \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: Ilex cassine \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: Salix caroliniana \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: Magnolia virginica \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Tree Zonation**--Circle the appropriate category: 1) Abnormal zonation – multiple signs of abnormal distribution and cover; 2) Somewhat abnormal zonation with moderately abnormal distribution and cover; 3) Normal zonation with normal distribution and cover.

Additional Comments on Tree Species \_\_\_\_\_

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**AQUATIC.....None at this location**

**Dominant Aquatic Species % Cover Categories:** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Aquatic Plant \_\_\_\_\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Aquatic Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal plant zonation; 2) Somewhat abnormal zonation - some signs of abnormal zonation; 3) Normal aquatic plant zonation

Additional Comments on Aquatic Species: \_\_\_\_\_

\_\_\_\_\_

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## PLANT COMMUNITY HEALTH

Does community show unusual signs of stress? No. Visually estimate % of wetland zone exhibiting signs of stress; \_\_\_\_\_

Type of stress observed (e.g., dead or dying plants, discolored foliage, wilted or rolled leaves, premature leaf fall or senescence, etc.): \_\_\_\_\_

Does stress appear moisture related, or is there sign of disease or insect injury? None \_\_\_\_\_

### Overall Condition of Plant Community is:

Circle Appropriate Category: **1)** Plants are dead or dying; **2)** poor vigor with obvious decline (foliage discolored, wilted, premature leaf fall) ; **3)** fair vigor, some signs of stress or decline; **4)** medium vigor, some yellow-green foliage, or signs of leaf wilt or leaf curling; **5)** appearance good, foliage green but foliage thin, less than normal growth for the season; **6)** excellent vigor, foliage green in color, normal growth for the season.

Additional Comments on Health some hurricane damage, some wax myrtles stressed by high water after evaluation \_\_\_\_\_

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## HYDIC SOILS

Look for signs of subsidence, oxidation or abnormal desiccation and select the category which best describes the current conditions of the wetland soils. This assessment may not be applicable (NA) if site is inundated.

Circle Appropriate Category: **1)** Substantial subsidence/oxidation; **2)** Moderate subsidence/oxidation; **3)** Little or no evidence of subsidence/oxidation

Circle Appropriate Soil Condition: **1)** Inundated, **2)** Saturated, **3)** Moist, **4)** Dry

Additional Comments on Soil \_\_\_\_\_  
\_\_\_\_\_

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## HYDROLOGY

**Current Water Level Indicators** (e.g., mosses, lichens, stains)

Estimated depth of water relative to high water marks or indicators: see comment below \_\_\_\_\_; describe type of indicator: stain marks \_\_\_\_\_

Circle the Appropriate Category: **1)** None of these indicators are present or indicators are at ground level; **2)** Indicators present; however, indistinct or abnormally low in comparison to the historic normal pool; **3)** Indicators are distinct and at the appropriate level for the season.

Additional Comments on Hydrology Water is high within 1.0' of high stain marks on staff (@6.2') \_\_\_\_\_

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## WILDLIFE AND LISTED SPECIES

**Listed Flora and Fauna Observed** (Include activity information for fauna)

**Wetland-Dependent Fauna Observed:**

Activity codes (M = mating, F = foraging, FT = flyover/traveling; N = nesting, OT = other)

Observation codes (O = observed, S = sign [scat, tracks, call or other signs of presence])

# GENERAL SITE DESCRIPTION CATEGORIES

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## Habitat Gradient.....grove, pasture, and residential areas surrounding

Circle Appropriate Category: **1)** full habitat gradient present from aquatic/wetland up gradient to native upland habitat; **2)** native upland habitat is present along 50-75% of perimeter; **3)** native upland habitat is present along 25-50% of perimeter; **4)** native upland habitat is present along less than 25% of perimeter.

Additional Comments on Habitat Gradient \_\_\_\_\_

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## Habitat Quality.....wetlands

Circle Appropriate Category: **1)** habitats present are in relatively natural condition in terms of community structure and plant species composition; **2)** habitats are in degraded condition in terms of community structure and plant species composition ; **3)** habitats are in severely degraded condition in terms of community structure and plant species composition.

Additional Comments on Habitat Quality good natural mosaic \_\_\_\_\_

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## Hydrology and Landscape Position

Circle Appropriate Category: **1)** wetland/aquatic system is isolated, with no regular surface water inflow or outflow; **2)** system has surface water inflow or outflow only at high water condition; **3)** system is flow-through with surface water inflow and outflow.

Additional Comments on Landscape Position: head water but connected \_\_\_\_\_

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## Storm Water Inflows and Outflows

Circle Appropriate Category: **1)** no significant adverse effects to habitat, hydrologic regime, or water quality due to inflow of stormwater system; **2)** habitat conditions are generally good, but adverse effects to habitat, hydrologic regime, or water quality are evident due to inflow stormwater inflows; **3)** ) habitat conditions are degraded by adverse effects of stormwater inflows.

Additional Comments on Surface Water no effect \_\_\_\_\_

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## Shoreline Development

Circle Appropriate Category: **1)** less than 10% of shoreline/perimeter is developed; **2)** 10 to 30% of shoreline/perimeter is developed; **3)** 30 to 60% of shoreline/perimeter is developed; **4)** greater than 60% of shoreline/perimeter is developed.

Additional Comments on Shoreline groves, agricultural or residential \_\_\_\_\_

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## Land Protection

Circle Appropriate Category: **1)** site and surrounding lands are in public ownership, or land use is limited to conservation/preservation; **2)** some but not all site and surrounding lands are in public ownership, or protected by easement ; **3)** site and surrounding lands are in not public ownership, nor protected by easement.

Additional Comments on Land Protection does not appear to be \_\_\_\_\_

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## Site Disturbance

Circle Appropriate Category: **1)** less than 10% wetland/water body recent land clearance or disturbance; **2)** 10 to 30% of wetland/water body is affected by recent land disturbance; **3)** 30 to 60% of wetland/water body is affected by recent land disturbance; **4)** greater than 60% of wetland/water body is affected by recent land disturbance.

Circle Appropriate Category: **1)** less than 10% uplands adjacent wetland/water body affected by recent land clearance or disturbance; **2)** 10 to 30% of upland is affected by recent land disturbance; **3)** 30 to 60% of upland is affected by recent land disturbance; **4)** greater than 60% of upland is affected by recent land disturbance.

Additional Comments on Land Disturbance \_\_\_\_\_ 0% \_\_\_\_\_

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## Drainage Alteration

Are significant drainage features present on the site? No If yes, describe: \_\_\_\_\_

Are there significant drainage features on lands bordering the wetland/water body? No If yes, describe: \_\_\_\_\_

Additional Comments on Drainage \_\_\_\_\_

# Wetland Assessment Field Form--SJRWMD Constraint Wetland Project

PROJECT: Lake Cecile wetland @ Ramada Inn on US 192 SJRWMD SITE ID: #186 COUNTY: Osceola

OTHER LOCATION NOTES: \_\_\_\_\_

PERSONNEL : Bill Dunn and Bob Fewster DATE: 8/10/05 TIME: 17:15

GPS COORDINATES: Latitude : N 28 19.879 Longitude: W 81 29.283

## PHOTOGRAPHY

Roll: \_\_\_\_\_ Photo Frame #s 4 photos

Description of photo(s): \_\_\_\_\_

## WATER LEVEL

Water Depth: \_\_\_\_\_ Staff Gage or Piezometer Level (if present): \_\_\_\_\_

## VEGETATION

Major Vegetation Zones Present in Wetland or Water Body:  forested,  shrub scrub,  marsh, \_\_\_\_\_ aquatic, \_\_\_\_\_ pond,  lake, \_\_\_\_\_ other (list): lake with dense emergent zones

**HERBACEOUS GROUNDCOVER** (% cover of OBL and/or FACW species to nearest 10%)

Zone 1: Composition: \_\_\_\_\_ Zone 2: Composition: \_\_\_\_\_

**Dominant Groundcover Species Cover Classes:** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_

Total % Groundcover: littoral areas, floating mats Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Scirpus \_\_\_\_\_

Species/1/2/3/4/5: Typha (floating mats) \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

**Groundcover Species Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal groundcover zonation; 2) Somewhat abnormal zonation - some signs of abnormal groundcover zonation mainly limited to the wetland edge; 3) Normal groundcover zonation.

**Additional Comments on Groundcover** \_\_\_\_\_

## NUISANCE/WEEDY GROUNDCOVER

**Composition**--Circle the appropriate category: 1) > 50% of all groundcover species cover is weeds; 2) > 10% and < 50% of all groundcover species cover is weeds (either dispersed throughout wetland or in dense localized patches); 3) < 10% of all groundcover species cover is weeds or weeds are absent.

**Additional Comments on Weedy Species** \_\_\_\_\_

## SHRUB

**Composition** \_\_\_\_\_ % cover OBL and/or FACW shrub species to nearest 10%

**Dominant Shrub Species Cover Classes:** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: \_\_\_\_\_ Zone 2: \_\_\_\_\_

Total % Shrub cover: \_\_\_\_\_ Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Ludwigia peruviana \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

**Shrub and Small Tree Species Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal shrub and tree zonation; 2) Somewhat abnormal zonation - some signs of abnormal shrub and tree zonation mainly limited to the wetland edge; 3) Normal shrub and tree zonation.

Additional Comments on Shrubs Shrub emergent zone

**WEEDY SHRUB**

**Composition** --Circle the appropriate category: 1) > 50% of all shrub species cover is weeds; 2) > 10% and < 50% of all shrub species cover is (either dispersed throughout the wetland or in dense localized patches); 3) < 10% of all shrub species cover is weeds or weeds are absent.

Additional Comments on Weedy Shrubs \_\_\_\_\_

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**CANOPY (TREE)**

**Dominant Canopy Species Cover Classes** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Canopy Cover: 100%

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Acer

\_\_\_\_\_

Species/1/2/3/4/5: Taxodium

\_\_\_\_\_

Species/1/2/3/4/5: Salix

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Tree Zonation**--Circle the appropriate category: 1) Abnormal zonation – multiple signs of abnormal distribution and cover; 2) Somewhat abnormal zonation with moderately abnormal distribution and cover; 3) Normal zonation with normal distribution and cover.

Additional Comments on Tree Species: forested border on N & S

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**AQUATIC**

**Dominant Aquatic Species % Cover Categories:** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Aquatic Plant deep water areas covered

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Algal mats

\_\_\_\_\_

Species/1/2/3/4/5: Salvinia

\_\_\_\_\_

Species/1/2/3/4/5: Duckweed

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Aquatic Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal plant zonation; 2) Somewhat abnormal zonation - some signs of abnormal zonation; 3) Normal aquatic plant zonation

Additional Comments on Aquatic Species:

\_\_\_\_\_



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## PLANT COMMUNITY HEALTH

Does community show unusual signs of stress? Some. Visually estimate % of wetland zone exhibiting signs of stress; \_\_\_\_\_

Type of stress observed (e.g., dead or dying plants, discolored foliage, wilted or rolled leaves, premature leaf fall or senescence, etc.): \_\_\_\_\_

Does stress appear moisture related, or is there sign of disease or insect injury? \_\_\_\_\_

**Overall Condition of Plant Community is:**

Circle Appropriate Category: **1)** Plants are dead or dying; **2)** poor vigor with obvious decline (foliage discolored, wilted, premature leaf fall) ; **3)** fair vigor, some signs of stress or decline; **4)** medium vigor, some yellow-green foliage, or signs of leaf wilt or leaf curling; **5)** appearance good, foliage green but foliage thin, less than normal growth for the season; **6)** excellent vigor, foliage green in color, normal growth for the season.

**Additional Comments on Health** 5.5 some maples @ S look stressed due to higher water

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## HYDIC SOILS

Look for signs of subsidence, oxidation or abnormal desiccation and select the category which best describes the current conditions of the wetland soils. This assessment may not be applicable (NA) if site is inundated.

Circle Appropriate Category: **1)** Substantial subsidence/oxidation; **2)** Moderate subsidence/oxidation; **3)** Little or no evidence of subsidence/oxidation

Circle Appropriate Soil Condition: **1)** Inundated, **2)** Saturated, **3)** Moist, **4)** Dry

**Additional Comments on Soil** \_\_\_\_\_

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## HYDROLOGY

**Current Water Level Indicators** (e.g., mosses, lichens, stains)

Estimated depth of water relative to high water marks or indicators: \_\_\_\_\_; describe type of indicator: \_\_\_\_\_

Circle the Appropriate Category: **1)** None of these indicators are present or indicators are at ground level; **2)** Indicators present; however, indistinct or abnormally low in comparison to the historic normal pool; **3)** Indicators are distinct and at the appropriate level for the season.

**Additional Comments on Hydrology** within 0.5 ft of high

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## WILDLIFE AND LISTED SPECIES

**Listed Flora and Fauna Observed** (Include activity information for fauna)

**Wetland-Dependent Fauna Observed:**

Activity codes (M = mating, F = foraging, FT = flyover/traveling; N = nesting, OT = other)

Observation codes (O = observed, S = sign [scat, tracks, call or other signs of presence])

## GENERAL SITE DESCRIPTION CATEGORIES

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### Habitat Gradient

Circle Appropriate Category: **1)** full habitat gradient present from aquatic/wetland up gradient to native upland habitat; **2)** native upland habitat is present along 50-75% of perimeter; **3)** native upland habitat is present along 25-50% of perimeter; **4)** native upland habitat is present along less than 25% of perimeter.

Additional Comments on Habitat Gradient \_\_\_\_\_

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### Habitat Quality

Circle Appropriate Category: **1)** habitats present are in relatively natural condition in terms of community structure and plant species composition; **2)** habitats are in degraded condition in terms of community structure and plant species composition ; **3)** habitats are in severely degraded condition in terms of community structure and plant species composition.

Additional Comments on Habitat Quality whole edge is gone, remaining is ok \_\_\_\_\_

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### Hydrology and Landscape Position

Circle Appropriate Category: **1)** wetland/aquatic system is isolated, with no regular surface water inflow or outflow; **2)** system has surface water inflow or outflow only at high water condition; **3)** system is flow-through with surface water inflow and outflow.

Additional Comments on Landscape Position: \_\_\_\_\_

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### Storm Water Inflows and Outflows

Circle Appropriate Category: **1)** no significant adverse effects to habitat, hydrologic regime, or water quality due to inflow of stormwater system; **2)** habitat conditions are generally good, but adverse effects to habitat, hydrologic regime, or water quality are evident due to inflow stormwater inflows; **3)** habitat conditions are degraded by adverse effects of stormwater inflows.

Additional Comments on Surface Water floating fern, duckweed, algal matter on surface, dense cattail \_\_\_\_\_

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### Shoreline Development

Circle Appropriate Category: **1)** less than 10% of shoreline/perimeter is developed; **2)** 10 to 30% of shoreline/perimeter is developed; **3)** 30 to 60% of shoreline/perimeter is developed; **4)** greater than 60% of shoreline/perimeter is developed.

Additional Comments on Shoreline no adjacent uplands \_\_\_\_\_

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### Land Protection

Circle Appropriate Category: **1)** site and surrounding lands are in public ownership, or land use is limited to conservation/preservation; **2)** some but not all site and surrounding lands are in public ownership, or protected by easement ; **3)** site and surrounding lands are in not public ownership, nor protected by easement.

Additional Comments on Land Protection \_\_\_\_\_

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### Site Disturbance

Circle Appropriate Category: **1)** less than 10% wetland/water body recent land clearance or disturbance; **2)** 10 to 30% of wetland/water body is affected by recent land disturbance; **3)** 30 to 60% of wetland/water body is affected by recent land disturbance; **4)** greater than 60% of wetland/water body is affected by recent land disturbance.

Circle Appropriate Category: **1)** less than 10% uplands adjacent wetland/water body affected by recent land clearance or disturbance; **2)** 10 to 30% of upland is affected by recent land disturbance; **3)** 30 to 60% of upland is affected by recent land disturbance; **4)** greater than 60% of upland is affected by recent land disturbance.

Additional Comments on Land Disturbance: no current, recent dirt \_\_\_\_\_

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### Drainage Alteration

Are significant drainage features present on the site? No If yes, describe: \_\_\_\_\_

Are there significant drainage features on lands bordering the wetland/water body? No If yes, describe: \_\_\_\_\_

Additional Comments on Drainage \_\_\_\_\_

# Wetland Assessment Field Form--SJRWMD Constraint Wetland Project

PROJECT: Poinciana Wetland SJRWMD SITE ID: #201 COUNTY: Osceola

OTHER LOCATION NOTES: \_\_\_\_\_

PERSONNEL : Bill Dunn and Bob Fewster DATE: 8/10/05 TIME: 16:00

GPS COORDINATES: Latitude : N 28 11.563 Longitude: W 81 30.583

## PHOTOGRAPHY

Roll:     Photo Frame #s: 4 shots of interior, 3 from outside @ road cypress dome

Description of photo(s):

## WATER LEVEL:

Water Depth: within 0.25' of HW @ south end Staff Gage or Piezometer Level (if present): \_\_\_\_\_

## VEGETATION—Cypress Dome

Major Vegetation Zones Present in Wetland or Water Body:  forested, \_\_\_\_\_ shrub scrub, \_\_\_\_\_ marsh, \_\_\_\_\_ aquatic, \_\_\_\_\_ pond, \_\_\_\_\_ lake, \_\_\_\_\_ other (list): \_\_\_\_\_

## HERBACEOUS GROUNDCOVER (% cover of OBL and/or FACW species to nearest 10%)

Zone 1: Composition: \_\_\_\_\_ Zone 2: Composition: \_\_\_\_\_ hammock swamp

Dominant Groundcover Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: _____	Zone 2: _____
Total % Groundcover: <u>100%</u>	Total % Cover _____
Species/1/2/3/4/5: <u>Woodwardia</u>	<u>Unknown sedges</u>
Species/1/2/3/4/5: <u>Ryhnchospora corniculata</u>	<u>Arundinaria</u>
Species/1/2/3/4/5: <u>Maidencane</u>	<u>Sacciolepis striata</u>
Species/1/2/3/4/5: <u>Bacopa</u>	_____
Species/1/2/3/4/5: <u>Eriocaulon</u>	_____

Groundcover Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal groundcover zonation; 2) Somewhat abnormal zonation - some signs of abnormal groundcover zonation mainly limited to the wetland edge; 3) **Normal groundcover zonation.**

Additional Comments on Groundcover \_\_\_\_\_

## NUISANCE/WEEDY GROUNDCOVER

Composition--Circle the appropriate category: 1) > 50% of all groundcover species cover is weeds; 2) > 10% and < 50% of all groundcover species cover is weeds (either dispersed throughout wetland or in dense localized patches); 3) **< 10% of all groundcover species cover is weeds or weeds are absent.**

Additional Comments on Weedy Species \_\_\_\_\_

## SHRUB

Composition \_\_\_\_\_ % cover OBL and/or FACW shrub species to nearest 10%

Dominant Shrub Species Cover Classes: 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) > 80%

Zone 1: _____	Zone 2: _____
Total % Shrub cover: <u>&lt;5%</u>	Total % Cover _____
Species/1/2/3/4/5: <u>Myrica</u>	_____
Species/1/2/3/4/5: _____	_____
Species/1/2/3/4/5: _____	_____
Species/1/2/3/4/5: _____	_____

Shrub and Small Tree Species Zonation--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal shrub and tree zonation; 2) Somewhat abnormal zonation - some signs of abnormal shrub and tree zonation mainly limited to the wetland edge; 3) **Normal shrub and tree zonation.**

Additional Comments on Shrubs \_\_\_\_\_

**WEEDY SHRUB**

**Composition** --Circle the appropriate category: 1) > 50% of all shrub species cover is weeds; 2) > 10% and < 50% of all shrub species cover is (either dispersed throughout the wetland or in dense localized patches); 3) < 10% of all shrub species cover is weeds or weeds are absent.

Additional Comments on Weedy Shrubs \_\_\_\_\_

**CANOPY (TREE).....open canopy**

**Dominant Canopy Species Cover Classes** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Canopy Cover: 80%

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: Pond cypress

\_\_\_\_\_

Species/1/2/3/4/5: Slash pine

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Tree Zonation**--Circle the appropriate category: 1) Abnormal zonation – multiple signs of abnormal distribution and cover; 2) Somewhat abnormal zonation with moderately abnormal distribution and cover; 3) Normal zonation with normal distribution and cover.

Additional Comments on Tree Species \_\_\_\_\_

**AQUATIC--no aquatic zone @ south end**

**Dominant Aquatic Species % Cover Categories:** 1) < 5%; 2) 5% < 25%; 3) 25% < 50%; 4) 50% - 80%; 5) >80%

Zone 1: \_\_\_\_\_

Zone 2: \_\_\_\_\_

Total % Aquatic Plant Cover: \_\_\_\_\_

Total % Cover \_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

Species/1/2/3/4/5: \_\_\_\_\_

\_\_\_\_\_

**Aquatic Zonation**--Circle the appropriate category: 1) Abnormal zonation - many signs of abnormal plant zonation; 2) Somewhat abnormal zonation - some signs of abnormal zonation; 3) Normal aquatic plant zonation

Additional Comments on Aquatic Species: \_\_\_\_\_

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## PLANT COMMUNITY HEALTH

Does community show unusual signs of stress? No      Visually estimate % of wetland zone exhibiting signs of stress; \_\_\_\_\_

Type of stress observed (e.g., dead or dying plants, discolored foliage, wilted or rolled leaves, premature leaf fall or senescence, etc.): \_\_\_\_\_

Does stress appear moisture related, or is there sign of disease or insect injury? storm damage to maples

### Overall Condition of Plant Community is:

Circle Appropriate Category: **1)** Plants are dead or dying; **2)** poor vigor with obvious decline (foliage discolored, wilted, premature leaf fall) ; **3)** fair vigor, some signs of stress or decline; **4)** medium vigor, some yellow-green foliage, or signs of leaf wilt or leaf curling; **5)** appearance good, foliage green but foliage thin, less than normal growth for the season; **6)** excellent vigor, foliage green in color, normal growth for the season.

Additional Comments on Health: \_\_\_\_\_

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## HYDIC SOILS

Look for signs of subsidence, oxidation or abnormal desiccation and select the category which best describes the current conditions of the wetland soils. This assessment may not be applicable (NA) if site is inundated.

Circle Appropriate Category: **1)** Substantial subsidence/oxidation; **2)** Moderate subsidence/oxidation; **3)** Little or no evidence of subsidence/oxidation.....\*\*\*\*mostly mineral soil here

Circle Appropriate Soil Condition: **1)** Inundated, **2)** Saturated, **3)** Moist, **4)** Dry

Additional Comments on Soil slightly inundated

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## HYDROLOGY--elevation of base of pines w/in 0.5' of soil surface

Current Water Level Indicators (e.g., mosses, lichens, stains)

Estimated depth of water relative to high water marks or indicators: 1.0 ft; describe type of indicator: \_\_\_\_\_

Circle the Appropriate Category: **1)** None of these indicators are present or indicators are at ground level; **2)** Indicators present; however, indistinct or abnormally low in comparison to the historic normal pool; **3)** Indicators are distinct and at the appropriate level for the season.

Additional Comments on Hydrology moss line and lichen line indicate that this end of ? is very shallowly flooded

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## WILDLIFE AND LISTED SPECIES

Listed Flora and Fauna Observed (Include activity information for fauna)

### Wetland-Dependent Fauna Observed:

Activity codes (M = mating, F = foraging, FT = flyover/traveling; N = nesting, OT = other)

Observation codes (O = observed, S = sign [scat, tracks, call or other signs of presence])



## GENERAL SITE DESCRIPTION CATEGORIES

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### Habitat Gradient

Circle Appropriate Category: **1)** full habitat gradient present from aquatic/wetland up gradient to native upland habitat; **2)** native upland habitat is present along 50-75% of perimeter; **3)** native upland habitat is present along 25-50% of perimeter; **4)** native upland habitat is present along less than 25% of perimeter.

Additional Comments on Habitat Gradient flatwoods adjacent is re-growing, following clear cut

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### Habitat Quality

Circle Appropriate Category: **1)** habitats present are in relatively natural condition in terms of community structure and plant species composition; **2)** habitats are in degraded condition in terms of community structure and plant species composition ; **3)** habitats are in severely degraded condition in terms of community structure and plant species composition.

Additional Comments on Habitat Quality \_\_\_\_\_

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### Hydrology and Landscape Position

Circle Appropriate Category: **1)** wetland/aquatic system is isolated, with no regular surface water inflow or outflow; **2)** system has surface water inflow or outflow only at high water condition; **3)** system is flow-through with surface water inflow and outflow.

Additional Comments on Landscape Position: very slight HW connection 1.5

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### Storm Water Inflows and Outflows

Circle Appropriate Category: **1)** no significant adverse effects to habitat, hydrologic regime, or water quality due to inflow of stormwater system; **2)** habitat conditions are generally good, but adverse effects to habitat, hydrologic regime, or water quality are evident due to inflow stormwater inflows; **3)** ) habitat conditions are degraded by adverse effects of stormwater inflows.

Additional Comments on Surface Water no stormwater

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### Shoreline Development

Circle Appropriate Category: **1)** less than 10% of shoreline/perimeter is developed; **2)** 10 to 30% of shoreline/perimeter is developed; **3)** 30 to 60% of shoreline/perimeter is developed; **4)** greater than 60% of shoreline/perimeter is developed.

Additional Comments on Shoreline: no development

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### Land Protection

Circle Appropriate Category: **1)** site and surrounding lands are in public ownership, or land use is limited to conservation/preservation; **2)** some but not all site and surrounding lands are in public ownership, or protected by easement ; **3)** site and surrounding lands are in not public ownership, nor protected by easement.

Additional Comments on Land Protection \_\_\_\_\_

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### Site Disturbance

Circle Appropriate Category: **1)** less than 10% wetland/water body recent land clearance or disturbance; **2)** 10 to 30% of wetland/water body is affected by recent land disturbance; **3)** 30 to 60% of wetland/water body is affected by recent land disturbance; **4)** greater than 60% of wetland/water body is affected by recent land disturbance.

Circle Appropriate Category: **1)** less than 10% uplands adjacent wetland/water body affected by recent land clearance or disturbance; **2)** 10 to 30% of upland is affected by recent land disturbance; **3)** 30 to 60% of upland is affected by recent land disturbance; **4)** greater than 60% of upland is affected by recent land disturbance.

Additional Comments on Land Disturbance no disturbance, except pine harvest in upland

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### Drainage Alteration

Are significant drainage features present on the site? No If yes, describe: \_\_\_\_\_

Are there significant drainage features on lands bordering the wetland/water body? No If yes, describe: \_\_\_\_\_  
photo's \_\_\_\_\_

Additional Comments on Drainage \_\_\_\_\_