JOINT APPLICATION FOR ENVIRONMENTAL RESOURCE PERMIT/

AUTHORIZATION TO USE SOVEREIGN SUBMERGED LANDS/

FEDERAL DREDGE AND FILL PERMIT

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION/
WATER MANAGEMENT DISTRICTS/
U.S. ARMY CORPS OF ENGINEERS

EXEMPT PROJECTS
If your project will qualify as exempt from permitting, please include the following for review:

1. Location Map - include lot number where possible

2. Warranty Deed for subject property

3. Plans/Drawings- (show all dimensions on a plan-view and a cross-sectional view):
   - ☐ Existing Structures
   - ☐ Proposed Structures
   - ☐ Structure Setbacks from Property Lines and Riparian Rights Lines
   - ☐ Shoreline length and width of waterbody
   - ☐ Mean High and Mean Low tidal/ordinary water lines

(Drawings should be submitted on 8 ½" x 11" paper)

4. Complete Parts 1 through 8 of Section A and/or those areas highlighted specific to your project.

5. Submit photograph(s) of the project area (*Optional)*.
   To expedite the processing and review of your project, include current photos of the project site.

For projects in Martin, Okeechobee and St. Lucie Counties, submit completed application form to:

Department of Environmental Protection
Environmental Resources Permitting
1801 SE Hillmoor Dr., Suite C-204
Port St. Lucie, FL 34952

For projects in Palm Beach, Broward and Miami-Dade Counties, submit completed application form to:

Department of Environmental Protection
Environmental Resources Permitting
400 N. Congress Ave., Suite 200
West Palm Beach, FL 33401

Projects that require a Standard General or Individual permit should be submitted to the West Palm Beach office.

If you would like to receive correspondence electronically, please include your e-mail address in Section A, Part 3.

INTRODUCTION FOR JOINT APPLICATION FOR ENVIRONMENTAL RESOURCE PERMIT/AUTHORIZATION TO USE STATE OWNED SUBMERGED LANDS/ FEDERAL DREDGE AND FILL PERMIT

INTRODUCTION
Attached is a joint application for:

1) Activities regulated under Part IV of Chapter 373, F.S.;
2) Activities which require authorization to use state owned submerged lands; and
3) Activities that require federal dredge and fill permit.

Certain activities may qualify for an exemption. If an activity qualifies for an exemption, an application is not required, although the use of this application form is the most expeditious way for the agencies to make the determination that the activity qualifies for an exemption. Attachment 2 lists various regulated activities and the type of permit required for each activity. If you have any questions, please contact the staff of the nearest office of either the Florida Department of Environmental Protection (DEP) or a Water Management District (WMD).

PROCESSING AGENCY/DISTRICT SERVICE CENTERS
The Department of Environmental Protection ("Department" or "DEP") regulates some types of activities, and the Water Management Districts ("WMDs") regulate others. Attachment 1, DEP/WMD Permitting Responsibilities, specifies which activities are regulated by each agency (under revision, contact local DEP or WMD). Environmental Resource Permit Applications shall be made to the appropriate District/Department office serving the area in which the activity is proposed. Attachment 4 designates the appropriate agency office for each geographic area.

COPIES/APPLICATION FEES
For exempt activities: submit an original signed application form plus two copies of the form, and three complete sets of all the requested drawings and other information to the appropriate DEP or WMD office. For activities requiring a permit: submit an original signed application form plus four copies of the form, and five complete sets of all the requested drawings and other information to the appropriate DEP or WMD office. Also, submit the appropriate application-processing fee. Application fees are listed in Attachment 3.

DISTRIBUTION TO U.S. ARMY CORPS OF ENGINEERS
When activities are proposed in, on or over wetlands or other surface waters, a portion of the application (Section A and Section C, with the associated drawings) will be forwarded to the Army Corps of Engineers (ACOE) by the reviewing agency. The ACOE will advise you of any additional information that may be required to complete your federal dredge and fill permit application. It is not necessary for the applicant to submit a separate application to the ACOE. The information that is requested in this application form might be more than is required to make a complete application to the ACOE. However, it is useful and may be essential for subsequent evaluation.
Reducing unnecessary paperwork and delays is a continuing goal of the ACOE.

DISTRIBUTION TO THE DEP FOR STATE LAND APPROVAL
If the applicant checks the box to request authorization to use sovereign submerged lands, the Department will begin processing the request for sovereign submerged lands approval. Additionally, if at any time during the processing of the application, it appears that the proposed activities may take place on sovereign submerged lands, the Department will initiate a review for the authorization to use such lands.
For an explanation of sovereign submerged land approval see Attachment 5.

NOTE: The information listed in Sections B, D, E, and F of this application package is not intended to be all-inclusive. Additional information may be requested by the reviewing agency in order to complete your application.

SECTION A

(Example Only-Any Similarity to Known Persons or Events is Purely Coincidental)

FOR AGENCY USE ONLY	
ACOE Application #	DEP/WMD Application #
Date Application Received	Date Application Received
Proposed Project Lat.	Fee Received $
Proposed Project Long.	Fee Receipt #

PART 1:

Are any of the activities described in this application proposed to occur in, on, or over wetlands or other surface waters? ☒ yes ☐ no

Is this application being filed by or on behalf of a government entity or drainage district? ☐yes ☐no

PART 2:

A. Type of Environmental Resource Permit Requested (check at least one). See Attachment 2 for thresholds and descriptions.

☐ Non-Binding Wetland Jurisdictional Determination (include a location map, survey, warranty deed)
☐ Exemption - include applicable information requested in Section D.
☐ Noticed General - include information requested in Section B.
☐ Standard General (Single Family Dwelling) - include information requested in Sections C and D.
☐ Standard General (all other Standard General projects) - include information requested in Sections C and E.
☐ Individual (Single Family Dwelling) - include information requested in Sections C and D.
☒ Individual (all other Individual projects) - include information requested in Sections C and E.
☐ Conceptual - include information requested in Sections C and E.
☐ Mitigation Bank Permit (construction) - include information requested in Sections C and F.
☐ Mitigation Bank (conceptual) - include information requested in Sections C and F.

B. Type of activity for which you are applying (check at least one).

☒ Construction or operation of a new system, other than a solid waste facility, including dredging or filling in, on or over wetlands and other surface waters.
☐ Construction, expansion or modification of a solid waste facility.
☐ Alteration or operation of an existing system which was not previously permitted by a WMD or DEP.
☐ Modification of a system previously permitted by a WMD or DEP. Provide previous permit numbers:_____

☐ Alteration of a system ☐ Extension of permit duration
☐ Abandonment of a system ☐ Construction of additional phases of a system
☐ Removal of a system

C. Are you requesting authorization to use Sovereign Submerged Lands? ☐yes ☐no
(See Section G and Attachment 5 for more information before answering this question.)

D. For activities in, on, or over wetlands or other surface waters, check type of federal dredge and fill permit requested:

☒Individual ☐Programmatic General ☐General
☐Nationwide ☐Not Applicable

E. Are you claiming to qualify for an exemption? ☐yes ☐no
If yes, provide rule number if known. _____

PART 3: **A. OWNER(S) OF LAND**	**B. ENTITY TO RECEIVE PERMIT (IF OTHER THAN OWNER)**
Name **Mr. John Maher, President**	Name Enter…If different than owner or agent
Title and Company **Harmony Land Development, Inc.**	Title and Company
Address **1130 Cocoplum Road**	Address
City, State, Zip **West Palm Beach, FL 33401**	City, State, Zip
E-mail Address: jmaher@cocoplum.net	E-mail Address:
Telephone and Fax **561-683-3333**	Telephone and Fax
C. AGENT AUTHORIZED TO SECURE PERMIT	**D. CONSULTANT (IF DIFFERENT FROM AGENT)**
Name Andrew Drawbridge, P.E., Project Engineer	Name Robert Watermark, President
Title and Company Premier Engineering Design, Inc.	Title and Company Watermark Environmental, Inc.
Address 4321 Java Park Road, Suite 3A	Address 2345 Watermark Lane
City, State, Zip Jupiter, FL 33458	City, State, Zip West Palm Beach, FL 33415
E-mail Address: adrawbridge@systems.com	E-mail Address: Rwatermark@wetlands.net
Telephone and Fax 561-744-4414	Telephone and Fax 561-743-5600

PART 4: (Please provide metric equivalent for federally funded projects):

A. Name of Project, including phase if applicable: ___Savanna Estates_____

B. Is this application for part of a multi-phase project?
☐yes ☒no

C. Total applicant-owned area contiguous to the project?
_200__ ac.; _____ ha.

D. Total area served by the system: _____ ac.; _____ ha.

E. Impervious area for which a permit is sought: __65___ ac.; _____ ha.

F. Volume of water that the system is capable of impounding:
_____ ac. ft.; _____ m

G. What is the total area of work in, on, or over wetlands or other surface waters?
__**3.0**__ ac.; _____ ha.; _____ sq. ft.; _____ sq. m.

H. Total volume of material to be dredged: ___**50**___ cubic yd; _____ cubic m

I. Number of new boat slips proposed: ____ wet slips; ____ dry slips

PART 5:

Project location (use additional sheets if needed):

County(ies) _____Palm Beach_____

Section(s) _____14_____ **Township** ____45 South_____ **Range** ___43 East_____

Section(s) _____ **Township** _____ **Range** _____
Section(s) _____ **Township** _____ **Range** _____

Latitude: _26^0 24' 3.0"_____ **Longitude:** __80^o 03' 12"__ **Waterbody:** _____

Land Grant name, if applicable: ____N/A_____

Tax Parcel Identification Number: ___08 43 45 14 54 003 _____

Street Address, Road or other location: ___NW Corner of Main Street and State Road 817_____

City, Zip Code, if applicable: ___West Palm Beach, FL 33401_____

PART 6: Describe in general terms the proposed project, system, or activity.

Example 1: As shown on the attached plan view and cross sectional drawings, construct a _____ square foot dock with a __ ft. by __ ft. access and a __ ft. by __ ft. mooring platform. Construct an associated __ ft. by __ ft. mooring area with __ associated pilings and a boatlift.

Example 2: As shown on the attached plan view and cross sectional drawings, construct a _____ linear foot seawall at the mean high water line, faced with ½ ft. to 3 ft. rip rap installed at a 2:1 Horizontal:Vertical slope.

The proposed project is for the development of a residential/commercial complex consisting of a 120-unit housing development, general store and commercial area, recreational center for all ages, bike path & walking trails, and a nature preserve to be constructed on a 200-acre site referred to as Savanna Estates. This project will impact approximately 2.0 acres of wetlands. All wetland mitigation and other environmental information is provided as attachments to this application.

PART 7:

A. If there have been any pre-application meetings, including on-site meetings, with regulatory staff, please list the date(s), location(s), and names of key staff and project representatives.

ERP Meeting with SFWMD held September 2002, at the SFWMD Building, West Palm Beach, FL. Attendees: Anita Bain

Pre-Application Meeting held October 2, 2003, at the USACE Regulatory Field Office, Palm Beach Gardens, FL. Attendees: Dale Beter

B. Please identify by number any MSSW/Wetland Resource/ERP/ACOE Permits pending, issued or denied for projects at the location, and any related enforcement actions.

Agency	Date	No.\Type of Application	Action Taken
USACE	June 5, 2002	#200209999(JF-DEB), Jurisdictional Determination	Wetland Line verified on June 5, 2002

C. Note: The following information is required for projects proposed to occur in, on or over wetlands that need a federal dredge and fill permit or an authorization to use state owned submerged lands. Please provide the names, addresses and zip codes of property owners whose property directly adjoins the project (excluding application) and/or (for proprietary authorizations) is located within a 500 ft. radius of the applicant's land. Please attach a plan view showing the owner's names and adjoining property lines. Attach additional sheets if necessary.

1.
Coconut Palms Homeowner's Ass.
4433 Homeowner's Drive
West Palm Beach, FL 33401

2.
Palm Beach County
3323 Belvedere Road
West Palm Beach, FL 406

3.
Mr. Joseph Neighbor
4400 Adjacent lane
West palm Beach, FL 33401

4.
use mailing labels for Public Notice Distribution!

5.

6.

7.

8.

PART 8:

A. By signing this application form, I am applying, or I am applying on behalf of the applicant, for the permit and any proprietary authorizations identified above, according to the supporting data and other incidental information filed with this application. I am familiar with the information contained in this application and represent that such information is true, complete and accurate. I understand this is an application and not a permit, and that work prior to approval is a violation. I understand that this application and any permit issued or proprietary authorization issued pursuant thereto, does not relive me of any obligation for obtaining any other required federal, state, water management district or local permit prior to commencement of construction. I agree, or I agree on behalf of the applicant, to operate and maintain the permitted system unless the permitting agency authorizes transfer of the permit to a responsible operation entity. I understand that knowingly making any false statement or representation in this application is a violation of Section 373.430, F.S. and 18 U.S.C. Section 1001.

Robert Watermark, Watermark Environmental, Inc.
Typed/Printed Name of Applicant (If no Agent is used) or Agent (If one is so authorized below)

June 2, 2003
Signature of Applicant/Agent **Date**

President
(Corporate Title if applicable)

AN AGENT MAY SIGN ABOVE ONLY IF THE APPLICANT COMPLETES THE FOLLOWING:

B. I hereby designate and authorize the agent listed above to act on my behalf, or on behalf of my corporation, as the agent in the processing of this application for the permit and/or proprietary authorization indicated above; and to furnish, on request, supplemental information in support of the application. In addition, I authorize the above-listed agent to bind me, or my corporation, to perform any requirements which may be necessary to procure the permit or authorization indicated above. I understand that knowingly making any false statement or representation in this application is a violation of Section 373.430, F.S. and 18 U.S.C. Section 1001.

John Mayer		June 2, 2003
Typed/Printed Name of Applicant	Signature of Applicant	Date

(Corporate Title if applicable)

Please note: The applicant's original signature (not a copy) is required above.

PERSON AUTHORIZING ACCESS TO THE PROPERTY MUST COMPLETE THE FOLLOWING:

C. I either own the property described in this application or I have legal authority to allow access to the property, and I consent, after receiving prior notification, to any site visit on the property by agents or personnel from the Department of Environmental Protection, the Water Management District and the U.S. Army Corps of Engineers necessary for the review and inspection of the proposed project specified in this application**. I authorize these agents or personnel to enter the property as many times as may be necessary to make such review and inspection. Further, I agree to provide entry to the project site for such agents or personnel to monitor permitted work if a permit is granted.**

John Mayer, Harmony Land Dev.		June 2, 2003
Typed/Printed Name of Applicant	Signature of Applicant	Date

(Corporate Title if applicable)

SECTION E

INFORMATION REQUESTED FOR STANDARD GENERAL, INDIVIDUAL AND CONCEPTUAL ENVIRONMENTAL RESOURCE PERMIT APPLICATIONS NOT RELATED TO A SINGLE FAMILY DWELLING UNIT

Please provide the information requested below if the proposed project requires either a standard general, individual, or conceptual approval environmental resource permit and is not related to an individual, single family dwelling unit, duplex or quadruplex. The information listed below represents the level of information that is usually required to evaluate an application. The level of information required for a specific project will vary depending on the nature and location of the site and the activity proposed. Conceptual approvals generally do not require the same level of detail as a construction permit. However, providing a greater level of detail will reduce the need to submit additional information at a later date. If an item does not apply to your project, proceed to the next item. Please submit all information that is required by the Department on either 8 1/2 in. X 11 in. paper or 11 in. X 17 in. paper. Larger drawings may be submitted to supplement but not replace these smaller drawings.

I. Site Information

A. Provide a map(s) of the project area and vicinity delineating USDA/SCS soil types.

B. Provide recent aerials, legible for photo interpretation with a scale of 1" = 400 ft, or more detailed, with project boundaries delineated on the aerial.

C. Identify the seasonal high water or mean high tide elevation and normal pool or mean low tide elevation for each on site wetland or surface water, including receiving waters into which runoff will be discharged. Include dates, datum, and methods used to determine these elevations.

D. Identify the wet season high water tables at the locations representative of the entire project site. Include dates, datum, and methods used to determine these elevations.

II. Environmental Considerations

A. Provide results of any wildlife surveys that have been conducted on the site, and provide any comments pertaining to the project from the Florida Game and Fresh Water Fish Commission and the U.S. Fish and Wildlife Service.

B. Provide a description of how water quantity, quality, hydroperiod, and habitat will be maintained in on-site wetlands and other surface waters that will be preserved or will remain undisturbed.

C. Provide a narrative description of any proposed mitigation plans, including purpose, maintenance, monitoring, and construction sequence and techniques, and estimated costs.

D. Describe how boundaries of wetlands or other surface waters were determined. If there has ever been a jurisdictional declaratory statement, a formal wetland determination, a formal determination, a validated informal determination, or a revalidated jurisdictional determination, provide the identifying number.

E. Impact Summary Tables:

1. For all projects, complete Tables 1, 2 and 3 as applicable.

2. For docking facilities or other structures constructed over wetlands or other surface waters, provide the information requested in Table 4.

3. For shoreline stabilization projects, provide the information requested in Table 5.

III. Plans

Provide clear, detailed plans for the system including specifications, plan (overhead) views, cross sections (with the locations of the cross sections shown on the corresponding plan view), and profile (longitudinal) views of the proposed project. The plans must be signed and sealed by a an appropriate registered professional as required by law. Plans must include a scale and a north arrow. These plans should show the following:

A. Project area boundary and total land area, including distances and orientation from roads or other land marks;

B. Existing land use and land cover (acreage and percentages), and on-site natural communities, including wetlands and other surface waters, aquatic communities, and uplands. Use the Florida Land Use Cover & Classification System (FLUCCS)(Level 3) for projects proposed in the South Florida Water Management District, the St. Johns River Water Management District, and the Suwannee River Water Management District and use the National Wetlands Inventory (NWI) for projects proposed in the Southwest Florida Water Management District. Also identify each community with a unique identification number which must be consistent in all exhibits.

C. The existing topography extending at least 100 feet off the project area, and including adjacent wetlands and other surface waters. All topography shall include the location and a description of known benchmarks, referenced to NGVD. For systems waterward of the mean high water (MHW) or seasonal high water lines, show water depths, referenced to mean low water (MLW) in tidal areas or seasonal low water in non-tidal areas, and list the range between MHW and MLW. For docking facilities, indicate the distance to, location of, and depths of the nearest navigational channel and access routes to the channel.

D. If the project is in the known flood plain of a stream or other water course, identify the following: 1) the flood plain boundary and approximate flooding elevations; and 2) the 100-year flood elevation and floodplain boundary of any lake, stream or other watercourse located on or adjacent to the site;

E. The boundaries of wetlands and other surface waters within the project area. Distinguish those wetlands and other surface waters that have been delineated by any binding jurisdictional determination;

F. Proposed land use, land cover and natural communities (acreage and percentages), including wetlands and other surface waters, undisturbed uplands, aquatic communities, impervious surfaces, and water management areas. Use the same classification system and community identification number used in III (B) above.

G. Proposed impacts to wetlands and other surface waters, and any proposed connections/outfalls to other surface waters or wetlands;

H. Proposed buffer zones;

I. Pre- and post-development drainage patterns and basin boundaries showing the direction of flows, including any off-site runoff being routed through or around the system; and connections between wetlands and other surface waters;

J. Location of all water management areas with details of size, side slopes, and designed water depths;

K. Location and details of all water control structures, control elevations, any seasonal water level regulation schedules; and the location and description of benchmarks (minimum of one benchmark per structure);

L. Location, dimensions and elevations of all proposed structures, including docks, seawalls, utility lines, roads, and buildings;

M. Location, size, and design capacity of the internal water management facilities;

N. Rights-of-way and easements for the system, including all on-site and off-site areas to be reserved for water management purposes, and rights-of-way and easements for the existing drainage system, if any;

O. Receiving waters or surface water management systems into which runoff from the developed site will be discharged;

P. Location and details of the erosion, sediment and turbidity control measures to be implemented during each phase of construction and all permanent control measures to be implemented in post-development conditions;

Q. Location, grading, design water levels, and planting details of all mitigation areas;

R. Site grading details, including perimeter site grading;

S. Disposal site for any excavated material, including temporary and permanent disposal sites;

T. Dewatering plan details;

U. For marina facilities, locations of any sewage pumpout facilities, fueling facilities, boat repair and maintenance facilities, and fish cleaning stations;

V. Location and description of any nearby existing offsite features which might be affected by the proposed construction or development such as stormwater management ponds, buildings or other structures, wetlands or other surface waters.

W. For phased projects, provide a master development plan.

IV. Construction Schedule and Techniques

Provide a construction schedule, and a description of construction techniques, sequencing and equipment. This information should specifically include the following:

A. Method for installing any pilings or seawall slabs;

B. Schedule of implementation of temporary or permanent erosion and turbidity control measures;

C. For projects that involve dredging or excavation in wetlands or other surface waters, describe the method of excavation, and the type of material to be excavated;

D. For projects that involve fill in wetlands or other surface waters, describe the source and type of fill material to be used. For shoreline stabilization projects that involve the installation of riprap, state how these materials are to be placed, (i.e., individually or with heavy equipment) and whether the rocks will be underlain with filter cloth;

E. If dewatering is required, detail the dewatering proposal including the methods that are proposed to contain the discharge, methods of isolating dewatering areas, and indicate the period dewatering structures will be in place (Note: a consumptive use or water use permit may by required);

F. Methods for transporting equipment and materials to and from the work site. If barges are required for access, provide the low water depths and draft of the fully loaded barge;

G. Demolition plan for any existing structures to be removed; and

H. Identify the schedule and party responsible for completing monitoring, record drawings, and as-built certifications for the project when completed.

V. Drainage Information

A. Provide pre-development and post-development drainage calculations, signed and sealed by an appropriate registered professional, as follows:

1. Runoff characteristics, including area, runoff curve number or runoff coefficient, and time of concentration for each drainage basin;

2. Water table elevations (normal and seasonal high) including aerial extent and magnitude of any proposed water table draw down;

3. Receiving water elevations (normal, wet season, design storm);

4. Design storms used including rainfall depth, duration, frequency, and distribution;

5. Runoff hydrograph(s) for each drainage basin, for all required design storm event(s);

6. Stage-storage computations for any area such as a reservoir, close basin, detention area, or channel, used in storage routing;

7. Stage-discharge computations for any storage areas at a selected control point, such as control structure or natural restriction;

8. Flood routings through on-site conveyance and storage areas;

9. Water surface profiles in the primary drainage system for each required design storm event(s);

10. Runoff peak rates and volumes discharged from the system for each required design storm event(s);

11. Tail water history and justification (time and elevation); and

12. Pump specifications and operating curves for range of possible operating conditions (if used in system).

B. Provide the results of any percolation tests, where appropriate, and soil borings that are representative of the actual site conditions;

C. Provide the acreage, and percentages of the total project, of the following:

1. Impervious surfaces, excluding wetlands;

2. Pervious surfaces (green areas, not including wetlands);

3. Lakes, canals, retention areas, other open water areas; and

4. Wetlands.

D. Provide an engineering analysis of floodplain storage and conveyance (if applicable), including:

1. Hydraulic calculations for all proposed traversing works;

2. Backwater water surface profiles showing upstream impact of traversing works;

3. Location and volume of encroachment within regulated floodplain(s); and

4. Plan for compensating floodplain storage, if necessary, and calculations required for determining minimum building and road flood elevations.

E. Provide an analysis of the water quality treatment system including:

1. A description of the proposed stormwater treatment methodology that addresses the type of treatment, pollution abatement volumes, and recovery analysis; and

2. Construction plans and calculations that address stage-storage and design elevations, which demonstrate compliance with the appropriate water quality treatment criteria.

F. Provide a description of the engineering methodology, assumptions and references for the parameters listed above, and a copy of all such computations, engineering plans, and specifications used to analyze the system. If a computer program is used for the analysis, provide the name of the program, a description of the program, input and output data, two diskette copies, if available, and justification for model selection.

VI. Operation and Maintenance and Legal Documentation

A. Describe the overall maintenance and operation schedule for the proposed system.

B. Identify the entity that will be responsible for operating and maintaining the system in perpetuity if different than the permittee, a draft document enumerating the enforceable affirmative obligations on the entity to properly operate and maintain the system for its expected life, and documentation of the entity's financial responsibility for long-term maintenance. If the proposed operation and maintenance entity is not a property owner's association, provide proof of the existence of an entity, or the future acceptance of the system by an entity which will operate and maintain the system. If a property owner's association is the proposed operation and maintenance entity, provide copies of the articles of incorporation for the association and copies of the declaration, restrictive covenants, deed restrictions, or other operational documents that assign responsibility for the operation and maintenance of the system. Provide information ensuring the continued adequate access to the system for maintenance purposes. Before transfer of the system to the

operating entity will be approved, the permittee must document that the transferee will be bound by all terms and conditions of the permit.

C. Provide copies of all proposed conservation easements, storm water management system easements, property owner's association documents, and plats for the property containing the proposed system.

D. Provide indication of how water and waste water service will be supplied. Letters of commitment from off-site suppliers must be included.

E. Provide a copy of the boundary survey and/or legal description and acreage of the total land area of contiguous property owned/controlled by the applicant.

VII. Water Use

A. Will the surface water system be used for water supply, including landscape irrigation, or recreation.

B. If a Consumptive Use or Water Use permit has been issued for the project, state the permit number.

C. If no Consumptive Use or Water Use permit has been issued for the project, indicate if such a permit will be required and when the application for a permit will be submitted.

D. Indicate how any existing wells located within the project site will be utilized or abandoned.

TABLE 1
Project Impact Summary

WL & SW ID	WL & SW TYPE	WL & SW SIZE (ac.) ON SITE	WL & SW ACRES NOT IMPACTED	PERMANENT IMPACTS TO WL & SW		TEMPORARY IMPACTS TO WL & SW		MITIGATION ID
				IMPACT SIZE (acres)	IMPACT CODE	IMPACT SIZE (acres)	IMPACT CODE	
WL1	HW or FLUCCS	4.30	3.30	1.0	F			
WL2	ML or FLUCCS	1.0	0	1.0	D			

WL = Wetland; **SW** = Surface water; **ID** = Identification number, letter, etc.
Wetland Type: Use an established wetland classification system and, in the comments section below, indicate which classification system is being used.
Impact Code (Type): D = dredge; F = fill; H = change hydrology; S = shading; C = clearing; O = other. Indicate the final impact if more than one impact type is proposed in a given area. For example, show F only for an area that will first be demucked and then backfilled.

Note: Multiple entries per cell are not allowed, except in the "Mitigation ID" column. Any given acreage of wetland should be listed in one row only, such that the total of all rows equals the project total for a given category (column). For example, if Wetland No. 1 includes multiple wetland types and multiple impact codes are proposed in each type, then each proposed impact in each wetland type should be shown on a separate row, while the size of each wetland type found in Wetland No. 1 should be listed in only one row.

Comments: _____

TABLE 2
ON-SITE MITIGATION SUMMARY

MITIGATION ID	CREATION		RESTORATION		ENHANCEMENT		WETLAND PRESERVE		UPLAND PRESERVE		OTHER	
	AREA	TARGET TYPE	AREA	TARGET TYPE	AREA	TARGET TYPE	AREA	TARGET TYPE	AREA	TARGET TYPE	AREA	TARGET TYPE
W1					3.3	HW						
CW1	2.0	HW										
PROJECT TOTALS:	2.0				3.3							

CODES (multiple entries per cell not allowed): Target Type or Type = target or existing habitat type from an established wetland classification system or land use classification for non-wetland mitigation

COMMENTS:

TABLE 3
OFF-SITE MITIGATION SUMMARY

MITIGATION ID	CREATION		RESTORATION		ENHANCEMENT		WETLAND PRESERVE		UPLAND PRESERVE		OTHER	
	AREA	TARGET TYPE	AREA	TARGET TYPE	AREA	TARGET TYPE	AREA	TARGET TYPE	AREA	TARGET TYPE	AREA	TARGET TYPE
Mitigation Bank											1.0	HW
PROJECT TOTALS:											1.0	

CODES (multiple entries per cell not allowed):

Target Type=target or existing habitat type from an established wetland classification system or land use classification for non-wetland mitigation

Additional Mitigation will be provided through the purchase of credits at an approved Mitigation Bank. Final mitigation will be assessed using an accepted wetland functional assessment method (i.e. WRAP)

Project Name _Savanna Estates__, Corps Project #_200209999_____

Wetland Name	Type	Pre-Impact Area (Acres)	Dredge Area (Acres)	Impact Area (Acres)	WRAP (Impact) Delta	WRAP Functional Capacity Unit-Debits	Preserved/ Created Area (Acres)	Mitigation Description	WRAP (Preserve) Delta	WRAP Functional Capacity Unit-Credits (with risk and temporal lag)
W1	WP	2.00		1.00	0.50	0.50	1.00	(I.e., remove exotics, re-grade, restore hydrology)	0.20	0.20
CW1	WP						2.00	grade, plant arboreal and herbaceous hydrophytes	0.80	1.60
		2.00	**0.00**	**1.00**	**0.50**	**0.50**	**3.00**		**1.00**	**1.80**
							Overall WRAP credit/ debit-units>>>>			**1.30**

HW=Herbaceous Wetland
DP=Depressional Wetland
WP=Wet Prairie
FW=Forested Wetland
SW=Shrubby Wetland
CD=Cypress Dome
ML=Melaleuca Wetland

created by Dale Beter/USACE/not an official document

When Requesting Verification of Jurisdictional Upland/Wetland Line….

Please Provide the Following Documents!

- 1987 Wetland Delineation Manual Data Forms.
- Project Location Map.
- Soil Survey (showing project boundary).
- Legible Aerial/IR Photo Image (showing wetland boundaries in relation to project boundary).
- Completed ERP Application.

DATA FORM

ROUTINE WETLAND DETERMINATION (Example Only)

(1987 COE Wetlands Delineation Manual)

Project/Site:	Lot #4, Savanna Colony	Date:	June 2, 2003
Applicant/Owner:	Mr. William Citizen	County:	Palm Beach
Investigator:	Dale Beter	State:	FL
Do Normal Circumstances exist on the site?	☒ Yes ☐ No	Community ID:	CD
Is the site significantly disturbed (Atypical Situation)?	☐ Yes ☒ No	Transect ID:	1
Is the area a potential Problem Area? (If needed, explain on reverse.)	☐ Yes ☒ No	Plot ID:	1

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Taxodium ascendens	Canopy	OBL	9.		
2. Annona glabra	Canopy	FACW	10.		
3. Chrysobalanus icaco	Mid	FACW	11.		
4. Schinus terebenthifolius	Mid	FAC	12.		
5. Blechnum serrulatum	Ground	FACW	13.		
6. Sagittaria latifolia	Ground	OBL	14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 6 /6 x 100 = 100%

Remarks: Less than 25% cover by exotic/invasive species.

HYDROLOGY

☐ Recorded Data (Describe in Remarks):
- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data Available

Field Observations:

Depth of Surface Water: _____ (in.)

Depth to Free Water in Pit: 14 (in.)

Depth to Saturated Soil: _____ (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ☐ Inundated
- ☒ Saturated in Upper 12 Inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ☐ Oxidized Root Channels in Upper 12 Inches
- ☐ Water-Stained Leaves
- ☒ Local Soil Survey Data
- ☒ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

Remarks: Rainfall above normal in May.

SOILS

Map Unit Name
(Series and Phase): Riviera depressional

Drainage Class: Poorly Drained

Field Observations
Confirm Mapped Type? ☐ Yes ☒ No

Taxonomy (Subgroup): Arenic Glossaqualf

Profile Descriptions:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc,
0-5	A1	10YR/4/2			Accretions 2-3 cm
5-16	A2	10YR/6/2	10YR/4/3	Fine/10%	

Hydric Soil Indicators:

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☐ Reducing Conditions
- ☐ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☒ High Organic Content in Surface Layer in Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☒ Listed on Local Hydric Soils List
- ☒ Listed on National Hydric Soils List
- ☐ Other (Explain in Remarks)

Remarks: Accretions are hydrophilic, high organic content in surface layer, sandy redox features within 6".

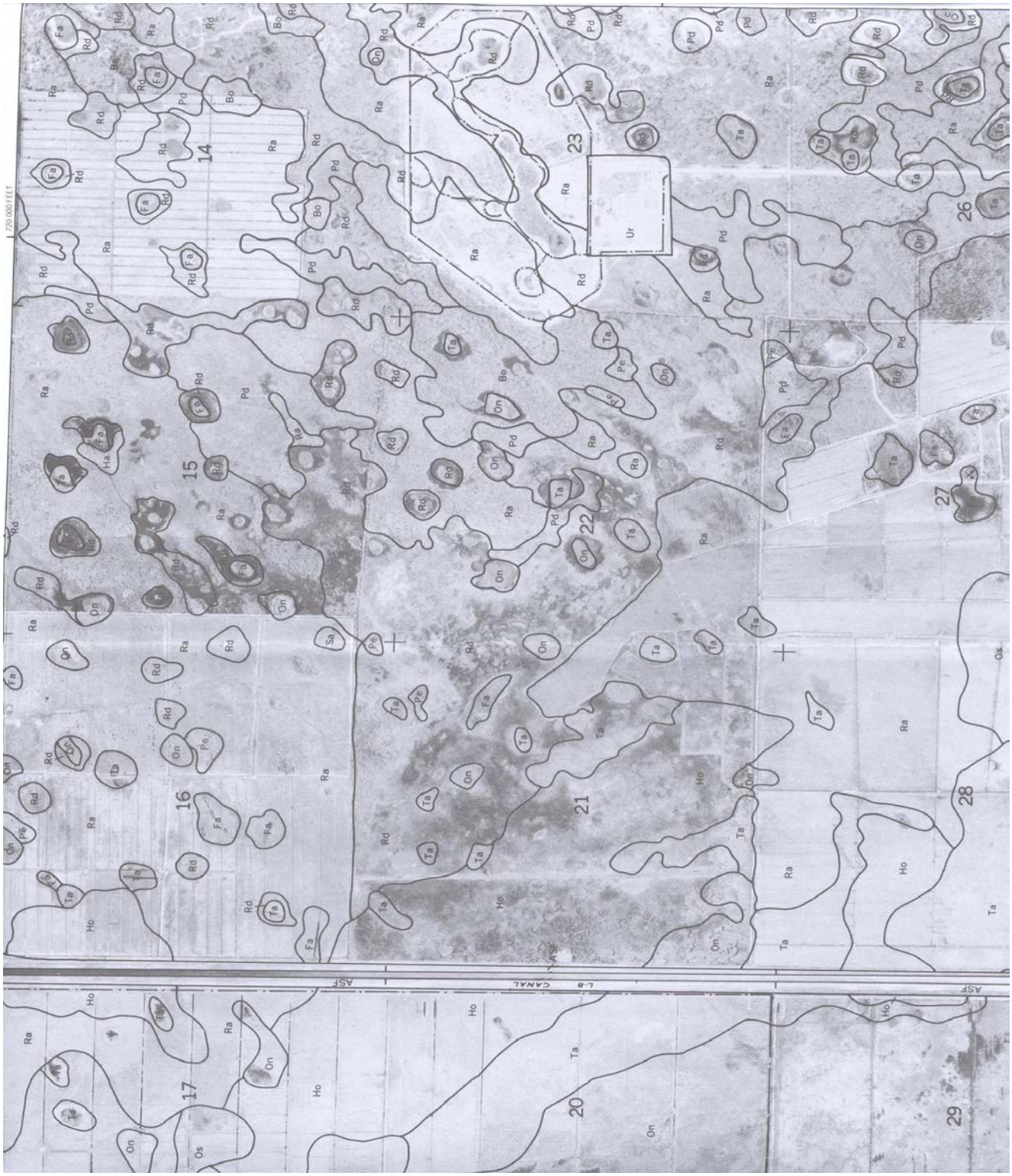
WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No (Check)
Wetland Hydrology Present? ☒ Yes ☐ No
Hydric Soils Present? ☒ Yes ☐ No

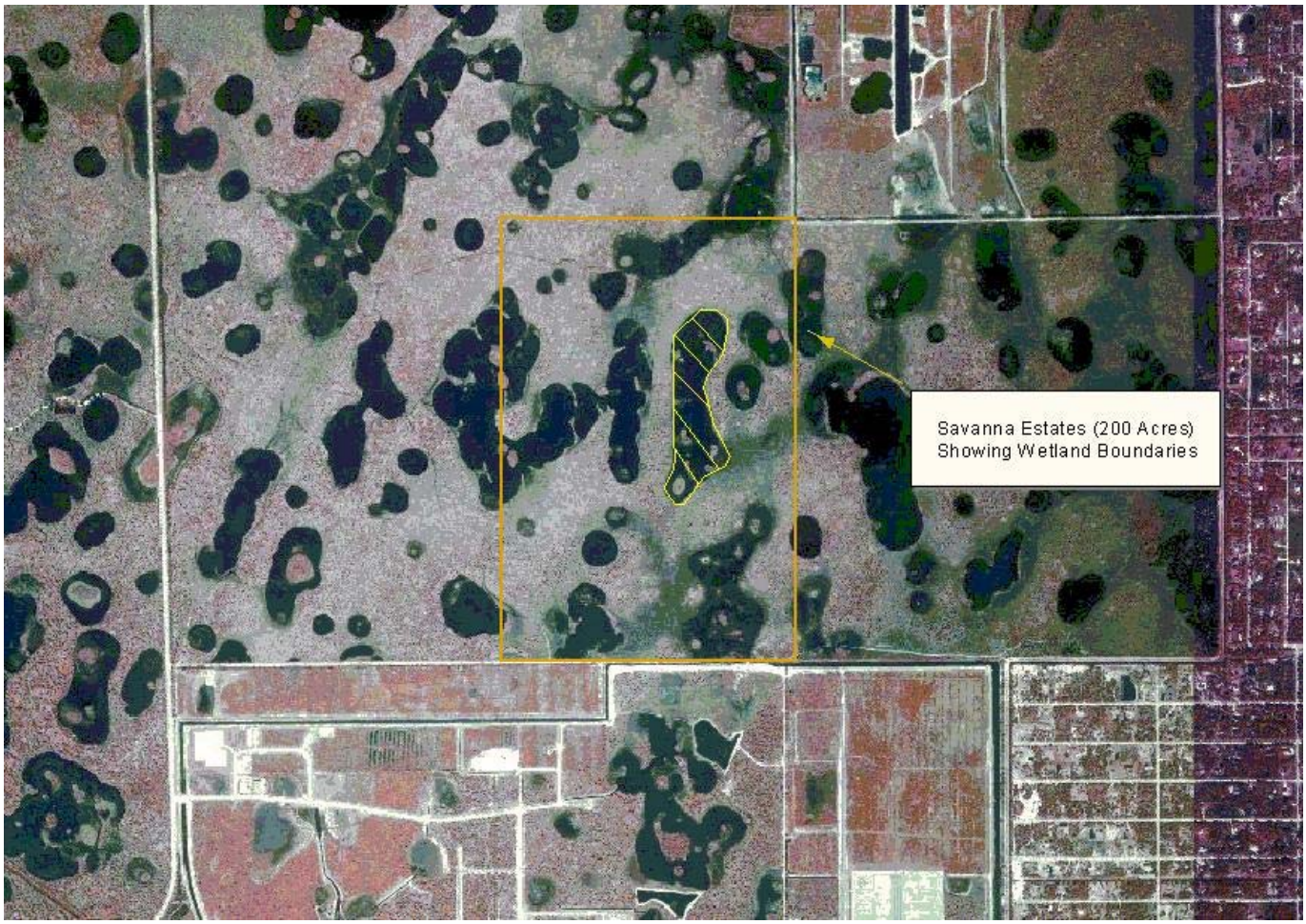
(Check)
Is this Sampling Point Within a Wetland? ☒ Yes ☐ No

Remarks Sample Point is in a wetland. Canal is near site; however, site still experiences saturation/inundation.

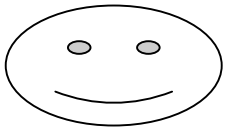
Soil Survey (from Soil Conservation Service Soil Survey of Palm Beach County)



Aerial IR Photo Image (from Palm Beach County)



Thank You!



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