

## -INFORMAL WETLAND DELINEATION- FIELD INSPECTION AND DATA REPORT

The below wetland survey was conducted per Florida Department of Environmental Protection (Ch. 62-340 of the F.A.C.), and United States Army Corps of Engineers (1987 Wetland Delineation Manual-GACPRS) criteria. All findings and conclusions are informal and non-binding until formally verified by all applicable agencies.

County/ Legal / Address (if assigned): ☒ Collier ☐ Lee ☐ Other  
Golden Gate Estates: 14 49 27 E1/2 OF N1/2 OF N1/2 OF S1/2 OF S1/2 OF NW1/4  
LESS E. 35 FT. 5 AC. OR 1608 PG 1038  
Parcel Tax ID: 00303240004, 0 13<sup>th</sup> Street SE aka (Ivy Way)  
Acres: 5.07  
Inspection Date: 2018 August 27<sup>th</sup> 2018  
Client: Ana Batista  
Authorized By: Ana Batista  
Inspected for Wetlands by FDEP: ☐ Yes ☒ No ☐ Unknown

|                                                                                                                                                   |                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| <b>Wetland: 0 Acres 0 Percent</b>                                                                                                                 | <b>Upland: 5.07 Acres 100 Percent</b> |
| Wetland Quality: <input type="radio"/> High <input type="radio"/> Average <input type="radio"/> Low <input checked="" type="radio"/> N/A (upland) |                                       |

| <b>Environmental Resource Permit (ERP) /<br/>Dredge and Fill/ Nationwide Permit required:</b>                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>State-FDEP/SFWMD</b>                                                                                                                                                                                                                                                                            | <b>Federal-USACOE</b>                                                                                                                                                                                                                                                                                                                   |
| <input checked="" type="radio"/> No wetland permit required- sufficient uplands in which to build                                                                                                                                                                                                  | <input checked="" type="radio"/> No wetland permit required<br><input type="radio"/> Wetland jurisdiction undetermined                                                                                                                                                                                                                  |
| <input type="radio"/> General Permit <ul style="list-style-type: none"><li>less than 4000 sq. ft. fill/ isolated</li><li>no compensatory mitigation required</li><li>30 days to issuance</li><li>must meet criteria of F.A.C chapter 62 (not specifically verified for this project)</li></ul>     | <input type="radio"/> Nationwide 14 (Road crossing) <ul style="list-style-type: none"><li>road less than 200' linear feet</li><li>compensatory mitigation typically not required</li><li>6-12 months to issue (on average)</li><li>must meet current Nationwide criteria in F.R. (not specifically verified for this project)</li></ul> |
| <input type="radio"/> Individual Permit <ul style="list-style-type: none"><li>compensatory mitigation required</li><li>60 days to issuance</li></ul>                                                                                                                                               | <input type="radio"/> Nationwide 29 or 39 <ul style="list-style-type: none"><li>Under 0.5 ac. impact</li><li>compensatory mitigation typically required for greater than 0.10 acres of wetland impact</li><li>6-12 months to issue (on average)</li></ul>                                                                               |
| <b>NOTE: The type of ERP permit required is determined using the anticipated impact footprint for a 2,000 sq. ft. home and associated structures (unless otherwise noted). Environmental resource permits (ERP), approved variances, or exemptions ARE ALWAYS required when impacting wetlands</b> |                                                                                                                                                                                                                                                                                                                                         |

**Field Conditions – Wetland (State Criteria)**

Not applicable; site is uplands.

**Field Conditions – Wetland (Federal USACE Criteria)**

Not applicable; site is uplands.

**Field Conditions – Upland (State Criteria)**

**Dominant vegetation with estimated percent coverage:**

|                                    | Canopy | Sub-canopy | Ground |
|------------------------------------|--------|------------|--------|
| <i>Pinus elliottii</i>             | 45%    | 15%        | 10%    |
| <i>Sabal palmetto</i>              | 20%    |            | 40%    |
| <i>Serenoa repens</i>              |        |            | 7%     |
| <i>Vitus spp.</i>                  |        |            | 15%    |
| <i>Callicarpa americana</i>        |        |            | 5%     |
| <i>Amphicarpum muhlenbergianum</i> |        |            | 5%     |
| <i>Cyperus ligularis</i>           |        |            | 2%     |
| <i>Melochia spicata</i>            |        |            | 5%     |
| <i>Aristida stricta</i>            |        |            | 2%     |
| <i>Spermacoce prostrata</i>        |        |            | 3%     |
| <i>Nephrolepis exaltata</i>        |        |            | 3%     |
| <i>Lantana strigocamara</i>        |        |            | 2%     |
| <i>Pterocaulon pycnostachyum</i>   |        |            | 2%     |
| <i>Eustachys spp.</i>              |        |            | 2%     |
| <i>Syzygium cumini</i>             |        |            | 2%     |
| <i>Blechnum serrulatum</i>         |        |            | 2%     |
| <i>Bidens alba</i>                 |        |            | 5%     |
| <i>Pteridium aquilinum</i>         |        |            | 4%     |
| <i>Toxidendron radicans</i>        |        |            | 2%     |
| * <i>Urena lobata</i>              |        |            | 10%    |
| * <i>Schinus terebinthifolius</i>  |        | 2%         |        |

Exotic-nuisance vegetation (\*)

●Canopy ○Sub-canopy ○Ground stratum is the appropriate stratum.

**USDA/NRCS Soils** According to the USDA/NRCS 1990 soil map (1984-Lee),  
●hydric ●non-hydric soils are present. See property data sheet and delineation  
map for a list of soils present on-site.

**Hydric Soil Indicators:** ○No Indicators Present ○ No Soil Sample Taken  
○Histosol (A1) ○Histic Epipedon (A2) ○Black Histic (A3) ○Hydrogen Sulfide  
(A4) ○Stratified Layers (A5) ○Organic Bodies (A6) ○5 cm Mucky Mineral (A7)  
○Muck Presence (A8) ○Depleted Below Dark Surface (A11) ○Thick Dark  
Surface (A12) ○Sandy Mucky Mineral (S1) ○Sandy Gleyed Matrix (S4) ○Sandy  
Redox (S5) ●Stripped Matrix (S6) ○Dark Surface (S7) ○Polyvalue Below  
Surface (S8) ○Thin Dark Surface (S9) ○Loamy Gleyed Matrix (F2) ○Depleted  
Matrix (F3) ○Depleted Below Dark Surface (F4) ○Thick Dark Surface (F5)  
○Redox Dark Surface (F6) ○Depleted Dark Surface (F7) ○Redox depressions  
(F8) ○Marl (F10) ○Umbric Surface (F13) ○Combo Soil ○Other (Explain)

**Hydrology:** ●Evidence of hydrology is absent OR Evidence of hydrology  
includes ○Algal Mats ○Aquatic Mosses or Liverworts ○Aquatic Plants  
○Aufwuchs ○Drift Lines and Rafted Debris ○Elevated Lichen Lines ○Evidence  
of Aquatic Animals or Fauna ○Hydrologic Data/Soils A1-A5, A7-A8, S4, F2  
○Morphological Plant Adaptations (○Living ○Active Cypress Pneumatophores ○  
Expanded Lenticels ○Buttressed Bases ○Adventitious rooting) ○Secondary  
Flow Channels ○Sediment Deposition ○Vegetated Tussocks ○Water Marks

**Field Conditions – Upland (Federal USACE Criteria)**

**Vegetation:** see State description above.

**USDA/NRCS Soils:** see State description above.

**Hydric Soil Indicators:** see State description above.

**Hydrology:** ☒ No evidence ☐ See State description above ☐ Historic (Explain)

**PRIMARY INDICATORS** ☐ Surface Water (A1) ☐ High Water Table (A2) ☐ Saturation (A3) ☐ Water Marks (B1) ☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Water-Stained Leaves (B9) ☐ Aquatic Fauna (B13) ☐ Marl Deposits (B15 LRRU) ☐ Hydrogen Sulfide Odor (C1) ☐ Oxidized Rhizospheres along Living Roots (C3) ☐ Presence of Reduced Iron (c4) ☐ Recent Iron Reduction in Tilled Soils (C6) ☐ Thin Muck Surface (C7) ☐ Other (Explain)

**SECONDARY** (minimum of two required) ☐ Surface Soil Cracks (B6) ☐ Sparsely Vegetated Concave Surface (B8) ☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16) ☐ Dry-Season Water Table (C2) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C9) ☐ Geomorphic Position (D2) ☐ Shallow Aquitard (D3) ☐ FAC-Neutral Test (D5) ☐ ***Sphagnum spp.*** Moss (D8- LRRT,U).



Typical vegetation of site



Soil sample taken on site

### Additional Information

After conducting an informal wetland determination on the subject property, TEC concludes sufficient uplands **●ARE ○ARE NOT** present (see map) in which to site all impacts and therefore wetland-related permits **○WILL ●WILL NOT** be required by the Florida Department of Environmental Protection (FDEP) and/or the United States Army Corps of Engineers. A site plan which depicts all proposed impacts (fill pad, septic, well, driveway, etc.) within the upland area **●MAY ○MAY NOT** be required by local county or city government. This site **○MAY ●MAY NOT** qualify for a reduction of the assessed value, and therefore the taxable value, by local county property appraiser due to the presence of wetlands on-site.

**NOTE:** Unless otherwise noted, the findings are based upon a 2,000 sq. ft. residence and associated improvements. Environmental resource permits (ERP) or approved variances ARE ALWAYS required when impacting any portion of site wetlands. **TEC's findings and conclusions are informal and non-binding until formally verified by State and Federal agencies.** For State verification please contact TEC, or the FDEP at 239-344-5600, or SFWMD at 239-338-2929. State (Florida Department of Environmental Protection or South Florida Water Management District) and Federal (United States Army Corps of Engineers or United States Department of Environmental Protection).

TEC did not find evidence of State or Federal listed plant or animal species during completion of the site visit. This does not mean, however, that listed species do not utilize the site and does not necessarily preclude the applicant from the possible need for further species surveys following review of habitat data, federal permitting procedures, or following a known or likely occurrence.

The project is located within the designated "Consultation Area" for several listed species including the Florida bonneted bat (***Eumops floridanus*- Federal Endangered**). Local, State and Federal wildlife agencies prohibit unauthorized "adverse impacts" to listed animal species. If a Federal agency permit is required due to wetland impact, the potential for "adverse impacts" will be considered by the U.S. Fish and Wildlife Service, and additional environmental surveys may be required prior to issuance.

The subject property is located within the Greater Big Cypress Swamp Watershed. A large percentage of this watershed was historically wetland, providing a diverse number of functions including, but not limited to; aquifer recharge, water purification and supply, flood control, carbon sinks, wildlife habitat, recreation, and fire protection. Although wetlands still exist, man-made drainage efforts stemming from the development of the region post 1900's have severely reduced wetland extent and the associated beneficial functions of the wetland habitat.

Special notes: Local County or City regulations may require further review of the site and TEC's findings by FDEP (State) representatives prior to the issuance of a residential building permit. The property contains man made atv trails as well as horse trails. It appears that the site has recently underwent a fire regime as charring can be observed on several of the trees. Several larger pine trees were observed to be broken , likely the cause of a large storm event.

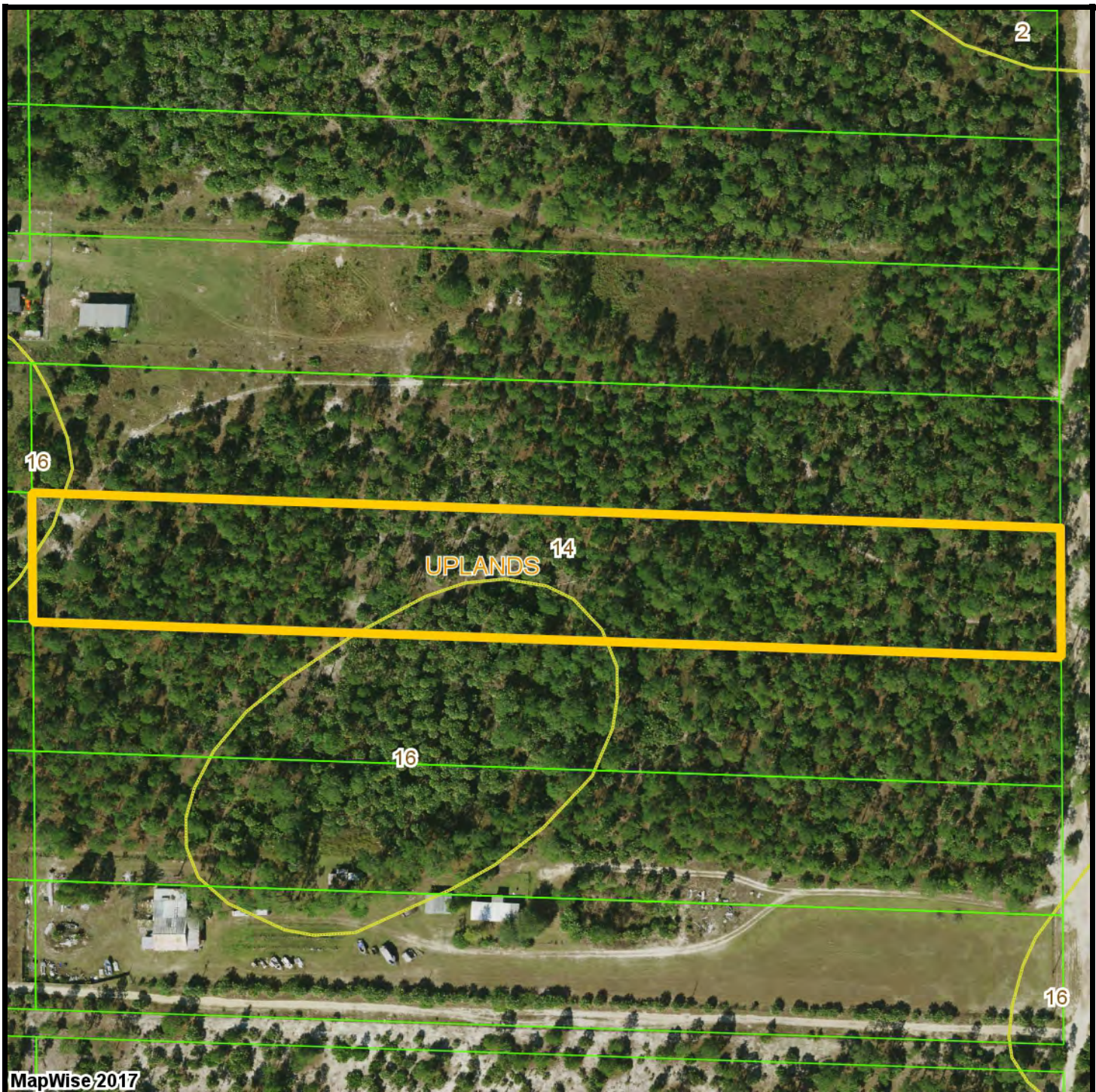
The parcel is adjacent to an undeveloped parcel to the north and an undeveloped parcel to the south.

Environmental survey and report completed by:  
Katharina Shoemaker  
Biologist/ Consultant

Tropical Environmental Consultants, LLC  
3899 Mannix Drive  
Suite 409  
Naples FL 34114  
239-455-6232

***"Finding balance between human use and the environment"*** since 1983  
Jurisdictional Wetland Evaluations\*Environmental Resource Permitting\*Listed Species Surveys  
Collier\*Lee\*Hendry\*Charlotte  
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MapWise 2017

# Hydric Soil Map and Determ. PID 303240004



Subject Study Area

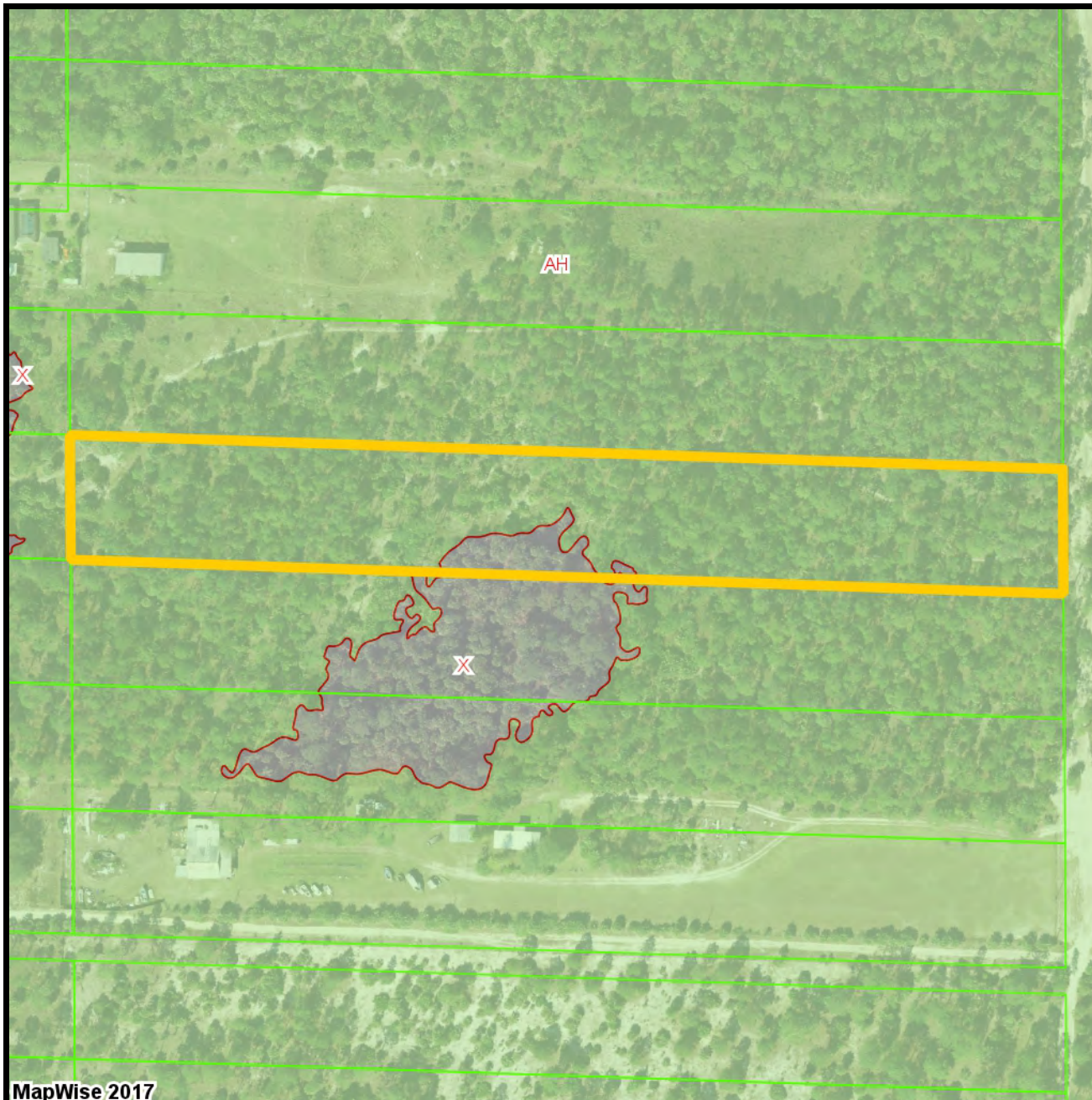
Wetland Per State and/or Federal wetland criteria

NOTE: The wetland area delineated on the map provided herein is approximate and subject to verification by the appropriate local, state, and/or Federal agencies. Drainage ditches, if present, are shown as linear features and are typically exempted from permitting requirements.

Tropical Environmental Consultants, LLC.  
(239) 455-6232  
Naples, Florida  
[www.TropicalEnvironmentalConsultants.com](http://www.TropicalEnvironmentalConsultants.com)







# DFIRM (Flood Map) PID

303240004

Labels Drawing

Points Drawing

Lines Drawing

Polygons Drawing

Selected Custom Parcels

County Boundaries

Parcel Outlines

V - 100-year, wave action, BFE no

VE - 100-year, wave action, BFE yes

A - 100-year, BFE no

AE - 100-year, BFE yes

AH - 100-year, ponding, BFE yes

AO - 100-year, sheet flow, BFE yes

X500 - 500-year

D - Undetermined, possible hazard

ANI - Area Not Included

X - Outside any floodplains

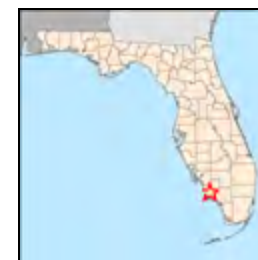


Tropical Environmental Consultants, LLC.

( 239 ) 455 – 6232

Naples, Florida

[www.TropicalEnvironmentalConsutants.com](http://www.TropicalEnvironmentalConsutants.com)



MapWise 2017

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| Owner and Property Description |                                             | Parcel Map                                                                         |
|--------------------------------|---------------------------------------------|------------------------------------------------------------------------------------|
| <b>Owner Name:</b>             | R3 TRADING CO LLC<br>31505 KENNOWAY CT      |  |
| <b>Mailing Address:</b>        | 31505 KENNOWAY CT<br>BEVERLY HILLS MI 48025 |                                                                                    |
| <b>Site Address:</b>           | FL                                          |                                                                                    |
| <b>Subdivision:</b>            |                                             |                                                                                    |
| <b>County:</b>                 | COLLIER                                     |                                                                                    |
| <b>Land Use Code:</b>          | 99                                          |                                                                                    |
| <b>Land Use Desc:</b>          | Acreage not zoned agricultural              |                                                                                    |
| <b>Land Use FDOR Code:</b>     | 99                                          |                                                                                    |
| <b>Land Use FDOR Desc:</b>     | Acreage not zoned agricultural              |                                                                                    |
| <b>Zoning:</b>                 |                                             |                                                                                    |
| <b>Acres:</b>                  | 5.07                                        |                                                                                    |
| <b>PIN:</b>                    | <a href="#">00303240004</a>                 |                                                                                    |
| <b>PIN2:</b>                   | 00303240004                                 |                                                                                    |
| <b>ALTKEY:</b>                 | 000100 036 4C14                             |                                                                                    |
| <b>Last Data Update:</b>       | 07/27/2018                                  |                                                                                    |

### Legal Description (not official)

14 49 27 E1/2 OF N1/2 OF N1/2 OF S1/2 OF S1/2 OF NW1/4 LESS E. 35 FT. 5 AC. OR 1608 PG 1038

| Building Summary           |  | 2017 Certified Values     |          |
|----------------------------|--|---------------------------|----------|
| <b>Actual Year Built:</b>  |  | <b>Land:</b>              | \$29,400 |
| <b>Effect. Year Built:</b> |  | <b>Land Agricultural:</b> | \$0      |
| <b>Living SqFt:</b>        |  | <b>Building:</b>          | \$0      |
| <b>Total SqFt:</b>         |  | <b>Misc:</b>              | \$0      |
| <b>Adjusted SqFt:</b>      |  | <b>Just Value:</b>        | \$29,400 |
| <b>Beds:</b>               |  | <b>Assessed Value:</b>    | \$0      |
| <b>Baths:</b>              |  |                           |          |
| <b>Stories:</b>            |  |                           |          |
| <b>Num. of Buildings:</b>  |  |                           |          |

### Recent Sales

| Sale Date  | Book/Page   | Docnum | Price     | Instrument | Qualified | Vac. or Impr. | Grantor |
|------------|-------------|--------|-----------|------------|-----------|---------------|---------|
| 2018-05-22 | 5516 / 1935 |        | \$160,000 |            |           |               |         |
| 2010-04-30 | 4563 / 1512 |        | \$100,000 |            |           |               |         |
| 1991-04-30 | 1608 / 1038 |        | \$0       |            |           |               |         |
| 1990-07-01 | 1541 / 2048 |        | \$75,000  |            |           |               |         |

### Sunbiz Corporate Data

| Title | Name | Address1 | City | State | Zip Code |
|-------|------|----------|------|-------|----------|
|-------|------|----------|------|-------|----------|

## Map Layer Stats

| Soils                               |                                        |                  |                |        |            |                  |       |
|-------------------------------------|----------------------------------------|------------------|----------------|--------|------------|------------------|-------|
| MUID                                | Map Unit Name                          | Component Name   | Component Pct  | Hydric | Hydric Grp | Percent of Total | Acres |
| 14                                  | PINEDA FINE SAND, LIMESTONE SUBSTRATUM | PINEDA           | 88             | YES    | C/D        | 91.7             | 4.65  |
| 16                                  | OLDSMAR FINE SAND                      | OLDSMAR          | 90             | NO     | A/D        | 8.3              | 0.42  |
| TOTAL ACRES                         |                                        |                  |                |        |            |                  | 5.07  |
| Land Cover 2014 (includes wetlands) |                                        |                  |                |        |            |                  |       |
| LUCODE                              | Description                            |                  |                | WMD    | YEAR       | Percent of Total | Acres |
| 2110                                | Improved Pastures                      |                  |                | SFWMD  | 2008-2009  | 7                | 0.35  |
| 6250                                | Hydric Pine Flatwoods                  |                  |                | SFWMD  | 2008-2009  | 93               | 4.72  |
| TOTAL ACRES                         |                                        |                  |                |        |            | 5.07             |       |
| Future Land Use                     |                                        |                  |                |        |            |                  |       |
| FLU Code                            | Description                            |                  | Jurisdiction   |        | County     | Percent of Total | Acres |
| Agricultural / Rural Designation    |                                        |                  | UNINCORPORATED |        | COLLIER    | 100.6            | 5.1   |
| RF-Neutral                          |                                        |                  | UNINCORPORATED |        | COLLIER    | 100.6            | 5.1   |
| TOTAL ACRES                         |                                        |                  |                |        |            |                  | 5.07  |
| City Limits                         |                                        |                  |                |        |            |                  |       |
| City name                           | County                                 | Percent of Total |                | Acres  |            |                  |       |
| TOTAL ACRES                         |                                        |                  |                | 5.07   |            |                  |       |
| Census Demographics                 |                                        |                  |                |        |            |                  |       |
| Census Tract                        |                                        |                  |                |        |            |                  |       |
| 12021010413                         |                                        |                  |                |        |            |                  |       |



## *dredging and filling in Wetlands*

### *What are wetlands?*

Wetlands are areas where water inundates the land or saturates the soil long enough and regularly enough to support, and under normal circumstances do support, a prevalence of plants that are specially adapted to these conditions. Wetlands are typically found along shorelines (floodplains, tidal marshes, etc.), in depressions (cypress domes, freshwater marshes, etc.) and at groundwater upwellings (springs, seepage slopes, etc.). All state, regional and local governments use soils, hydrology (water patterns) and plants to identify wetlands. This procedure is explained in Chapter 62-340 of the Florida Administrative Code, under "Delineation of the Lateral Extent of Wetlands and Surface Waters."

### *What is fill?*

The term "fill" includes any material that is placed in, on, or over wetlands or other surface waters. For example, dirt, sand, gravel, rocks, shell, pilings, mulch and concrete are all considered fill if they are placed in a wetland or other surface water.

### *What is dredging?*

The term "dredging" refers to any type of excavation conducted in wetlands or other surface waters. Dredging includes digging, pulling up vegetation by the roots, leaving vehicular ruts, or any other activity that disturbs the soil.

You should be aware that if the Department of Health is requiring that the Onsite Sewage Treatment & Disposal System (OSTDS) drain field be elevated due to a high water table, the site could be in a wetland.

There also are many other activities that may require DEP permits for wetland impacts. Examples of these activities include: constructing a dock or seawall, installing a fence, filling for a house pad or driveway, filling that "low spot", dredging a pond, dredging a ditch, removing trees, or dredging a channel for boat access.



## *Why do we need to protect wetlands?*

At one time, people thought of wetlands as being "useless wastelands." We now know that wetlands are one of our more important natural resources because of the many environmental and economic benefits that they provide.

### *What Benefits are provided by wetlands?*

**Flood Control** - After storm events, wetlands intercept and slowly release large quantities of water, which could otherwise flood upland areas and neighboring properties.

**Water Quality Improvement** - Wetlands filter and remove toxins and excess nutrients from the water passing through them to keep surface water bodies suitable for swimming, fishing, and sometimes as a source of drinking water.

**Productivity** - Regular inputs of water, sediments and nutrients cause most wetlands to be highly productive. Vegetation grows very quickly in wetlands, producing a great deal of timber and food for plant-eating animals.

**Habitat** - Many animals live in wetlands for all or part of their lives and many others depend on wetland creatures as a food source. Wetlands are especially important as nesting and nursery grounds.

**Economic Benefits** - Wetlands are important to Floridians because they support our commercial fishing, tourism and recreation industries.

**Erosion Control** - Maintaining wetlands between moving water and uplands is an effective and economical way to protect property from erosion.

**Aquifer Recharge**—Most ground water supplies are recharged from the water that collects in wetlands and then infiltrates into the ground.



## *How do I know if my property is a wetland?*

In many cases, the periodic occurrence of standing water will be a good indication that you have a wetland. However, many wetlands have standing water for only part of the year, and some will have no standing water, or may be on a seepage slope, so they may be difficult to recognize during dry periods. If the property contains saturated or hydric (wet) soils, there is a good chance that the property may contain wetlands. Because of varying natural conditions, it often can be difficult to determine whether a soil would be considered hydric. If you are familiar with common wetland plants like cypress, black gum, red bay, sweet gum, red maple, water oak, cattails, or arrowhead, their presence will offer another helpful clue that you have a wetland. Once you have identified a wetland, it may be difficult to determine its exact boundaries (the presence of pine trees cannot be used alone to determine if you have a wetland or not). When in doubt, you should contact a professional environmental consultant or the DEP for assistance in determining whether or not your proposed work site is a wetland, and where its limits are.

Property surveys, county cadastral surveys, land use or zoning, FEMA flood zone mapping and the National Wetlands Inventory **cannot** be used to indicate if there are wetlands. Ask your building consultant or contractor if they can determine the extent of wetlands as defined by Florida Administrative Code Chapter 62-340.

## *What agencies regulate dredge and fill?*

Dredging and filling is regulated by many local governments, the water management districts and the U.S. Army Corps of Engineers (Corps). When you submit your application to DEP, a copy is automatically forwarded to the Corps. Although the water management districts share this regulatory program with DEP, they are usually not involved with residential activities by homeowners. For information on local government regulations, please contact your county building permit / inspection office.

## *What happens if I dredge or fill in jurisdictional wetlands without a DEP permit?*

Dredging or filling in jurisdictional wetlands or surface waters without a permit from **DEP** is a violation of Sections 373.430(1)(b) and 403.161(1)(b) Florida Statutes. The DEP may require complete restoration of the unpermitted activity and can seek monetary fines of up to \$10,000 per violation per day. Additionally, other local, state and federal agencies may assess their own penalties and fines. **The contractor or agent of the owner can also be held accountable for violations of these Florida Statutes.**

Any construction site that will result in a disturbance of one acre or more of upland or wetland are required to seek coverage under the [Generic Permit for Stormwater Discharge from Large and Small Construction Activities](#) or NPDES Permit (National Pollution Discharge Elimination System).

For assistance in determining whether or not your proposed work site contains a wetland or for additional information, please contact an environmental professional.

## **Useful links:**

- <http://www.dep.state.fl.us/water/wetlands/index.htm>
- <http://www.dep.state.fl.us/coastal/programs/aquatic.htm>
- <http://www.leg.state.fl.us/Welcome/index.cfm>
- <http://www.dep.state.fl.us/legal/Rules/mainrulelist.htm>
- <http://www.saj.usace.army.mil/permit/index.html>
- <http://wetlandextension.ifas.ufl.edu>
- <http://www.dep.state.fl.us/water/stormwater/npdes/index.htm>



### **Permitting in wetlands:**

Neither county building permits, lake excavation permits nor OSTDS/ Department of Health permits authorizes construction activities in wetlands.

