

## **APPENDIX 7**

### **Soil Types**

## Appendix 7

Soil survey of Pinellas County, Florida – U.S. Department of Agriculture, Natural Resources Conservation Service, 2003

### **Kesson Fine Sand – very frequently flooded**

#### Setting

Landscape: Lower Coastal Plain

Landform: Tidal swamps

Shape of areas: Irregular

Size of areas: 10 to more than 25 acres

#### Composition

Kesson and similar soils: 85 percent

Dissimilar soils: 15 percent

#### Typical Profile

Surface Layer: 0 to 5 inches – black fine sand that has about 10 percent, by volume, shell fragments

Substratum: 5 to 26 inches – light brownish gray fine sand that has about 15 percent, by volume shell fragments

26 to 42 inches – mixed grayish brown and brown fine sand that has about 20 percent, by volume, shell fragments

42 to 80 inches – light brownish gray fine sand that has about 10 percent, by volume, shell fragments

#### Soil Properties and Qualities

Depth class: Very deep

Drainage class: Very poorly drained

Permeability: Moderately rapid or rapid

Available water capacity: High

Seasonal high water table: Apparent, from the surface to a depth of ½ foot from January through December

Shrink-swell potential: Low

Flooding: Very frequent

Surface runoff class: Negligible

Content of organic matter in the surface layer: Low

Natural fertility: Low

#### Minor Components

Dissimilar soils: Scattered areas of Wulfert soils

Similar soils: Small areas of soils that consist of more than 50 percent shell fragments

#### Land Use

Dominant use: Wildlife habitat

Other uses: None

Suitability for urban development: Very limited

Suitability for recreational development: Very limited

Suitability for wildlife habitat: Fair for wetland plants and wildlife, poor to very poor for openland and woodland plants and wildlife

Suitability for woodland: Not rated

Interpretive Groups

Land capability classification: 8w

Ecological community: Mangrove Swamp

## **Beaches**

### Setting

Landscape: Lower Coastal Plain

Landform: Beaches

Location of areas: Most areas of this map unit are on the western shores of the county.

Shape of areas: Typically, the areas are long strips that range from 30 to 200 feet in width.

### Composition

Beaches: 95 percent

Dissimilar: 5 percent

### Characteristics of Beaches

This map unit supports little or no vegetation. Areas are either covered with saltwater during daily high tides and stormy periods. This mapping unit is used for beach and water activities.

### Properties and Qualities

Seasonal high water table: Apparent, from 2 feet above the surface to the surface from January through December

Flooding: Very Frequent

Parent material: Sandy marine sediment with varying amounts of shell fragments

### Minor Components

Dissimilar areas: Scattered areas of Palm Beach soils

### Land Use

Dominant use: Recreation

Other uses: None

Suitability for urban development: Not rated

Suitability for recreational development: Not rated

Suitability for wildlife habitat: Not rated

Suitability for woodland: Not rated

### Interpretive Groups

Land capability classification: 8w

Ecological community: South Florida Coastal Strand